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1.2 jackson-databind 2.13.2.2

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1.7 paranamer 2.5.1

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1.8 jackson-annotations 2.13.3

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 <link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
 <link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
 <link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
 <link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
 <link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
 <link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
 <link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
 <link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
 <link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
 <link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
 <link rel="manifest" href="/favicons/manifest.json">
 <link rel="shortcut icon" href="/favicons/favicon.ico">
 <meta name="msapplication-TileColor" content="#603cba">
 <meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
 <meta name="msapplication-config" content="/favicons/browserconfig.xml">
 <meta name="theme-color" content="#303284">

 <title>Apache License, Version 2.0</title>
 <link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
 <link href="/css/min.bootstrap.css" rel="stylesheet">
 <link href="/css/styles.css" rel="stylesheet">

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</head>

```
<body>
<!-- Navigation -->
<header>
 <nav class="navbar navbar-default navbar-fixed-top">
  <div class="container">
   <div class="navbar-header">
    <button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
     <span class="sr-only">Toggle navigation</span>
     <span class="icon-bar"></span>
     <span class="icon-bar"></span>
     <span class="icon-bar"></span>
    </button>
    <a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
   </div>
   <div class="collapse navbar-collapse" id="mainnav-collapse">
    <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a> &raquo <a
href="/licenses/">Licenses</a></div>
    <ul class="nav navbar-nav navbar-right">
     <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
      <li><a href="/foundation">Overview</a></li>
      <li><a href="/foundation/members.html">Members</a></li>
      <li><a href="/foundation/how-it-works.html">Process</a></li>
      <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
      <li><a href="/foundation/glossary.html">Glossary</a></li>
      <li><a href="/foundation/preFAQ.html">FAQ</a></li>
      <li><a href="/foundation/contact.html ">Contact</a></li>
      </ul>
     </li>
  <li><a href="/index.html#projects-list">Projects</a></li>
   <li class="dropdown">
     <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
     <ul class="dropdown-menu" role="menu">
    <li><a href="http://people.apache.org/">Overview</a></li>
    <li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
    <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
    <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
    <li><a href="http://planet.apache.org/">Planet Apache</a></li>
     </ul>
    </li>
    <li class="dropdown">
     <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
       <li><a href="/foundation/getinvolved.html">Overview</a></li>
      <li><a href="http://community.apache.org/">Community Development</a></li>
           <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
```

```
        <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
         </ul>
    </li>
        <li><a href="/dyn/closer.cgi">Download</a></li>
        <li class="dropdown">
         <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
         <ul class="dropdown-menu" role="menu">
        <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
        <li><a href="/foundation/contributing.html">Donations</a></li>
        <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
        <li><a href="/foundation/thanks.html">Thanks</a></li>
         </ul>
        </li>
      </ul>
    </div>
  </div>
 </nav>
</header>
<!-- / Navigation -->
<div class="container">
 <div class="row">
  <div class="col-md-9 col-sm-8 col-xs-12">
   <img src="/img/asf_logo.png" alt="Apache Logo" style="max-width: 100%;">
  </div>
  <div class="col-md-3 col-sm-4 col-xs-12">
   <div class="input-group" style="margin-bottom: 5px;">
   <script>
 (function() {
  var cx = '005703438322411770421:5mgshgrgx2u';
  var gcse = document.createElement('script');
  gcse.type = 'text/javascript';
  gcse.async = true;
  gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
     '//cse.google.com/cse.js?cx=' + cx;
  var s = document.getElementsByTagName('script')[0];
  s.parentNode.insertBefore(gcse, s);
 })();
</script>
   <gcse:searchbox-only></gcse:searchbox-only>
  </div>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
  </div>
 </div>
</div>
```

<style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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</pre>

<!-- Footer -->

```
<footer class="bg-primary">
 <div class="container">
  <div class="row">
   <br />
   <div class="col-sm-1">

   </div>
   <div class="col-sm-2">
        <h5 class="white">Community</h5>
        <ul class="list-unstyled white" role="menu">
    <li><a href="http://community.apache.org/">Overview</a></li>
    <li><a href="/foundation/conferences.html">Conferences</a></li>
    <li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
    <li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
    <li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
    <li><a href="/travel/">Travel Assistance</a></li>
    <li><a href="/foundation/getinvolved.html">Get Involved</a></li>
    <li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>
        </ul>
   </div>

   <div class="col-sm-2">
    <h5 class="white">Innovation</h5>
        <ul class="list-unstyled white" role="menu">
    <li><a href="http://incubator.apache.org/">Incubator</a></li>
    <li><a href="http://labs.apache.org/">Labs</a></li>
    <li><a href="/licenses/">Licensing</a></li>
    <li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
        </ul>
   </div>

   <div class="col-sm-2">
    <h5 class="white">Tech Operations</h5>
       <ul class="list-unstyled white" role="menu">
     <li><a href="/dev/">Developer Information</a></li>
     <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
     <li><a href="/security/">Security</a></li>
     <li><a href="http://status.apache.org">Status</a></li>
     <li><a href="/foundation/contact.html">Contacts</a></li>
       </ul>
   </div>

   <div class="col-sm-2">
    <h5 class="white">Press</h5>
      <ul class="list-unstyled white" role="menu">
    <li><a href="/press/">Overview</a></li>
```

```
    <li><a href="https://blogs.apache.org/">ASF News</a></li>
    <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
    <li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
    <li><a href="/press/#contact">Contacts</a></li>
      </ul>
   </div>

   <div class="col-sm-2">
    <h5 class="white">Legal</h5>
      <ul class="list-unstyled white" role="menu">
    <li><a href="/legal/">Legal Affairs</a></li>
    <li><a href="/licenses/">Licenses</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/records/">Public Records</a></li>
        <li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
    <li><a href="/licenses/exports/">Export Information</a></li>
    <li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
      </ul>
   </div>

   <div class="col-sm-1">
   </div>

  </div>
  <hr class="col-lg-12 hr-white" />
  <div class="row">
   <div class="col-lg-12">
    <p class="text-center">Copyright &#169; 2016 The Apache Software Foundation, Licensed under the <a
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   </div>
  </div>
 </div>

</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>
```

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the library, but you are not obligated to do so.? If you do not wish to do
so, delete this exception statement from your version.

```
 </li>

 </ul>

</body>
</html>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
<title>Untitled Document</title>
</head>

<body>
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
<HTML>
<!--    @page { margin: 0.79in }    P { margin-bottom: 0.08in }    H1 { margin-top: 0in; margin-bottom: 0.17in; widows:
0; orphans: 0 }    H1.western { font-family: "Times New Roman", serif; font-size: 12pt; font-weight: normal }    H1.cjk
{ font-family: "Andale Sans UI"; font-size: 12pt; font-weight: normal }    H1.ctl { font-family: "Tahoma"; font-size:
12pt; font-weight: normal }    -->
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Also add information on how to contact you by electronic and paper mail.
If the program is interactive, make it output a short notice like this when it starts in an interactive mode:
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<blockquote>signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice</blockquote>
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<li style="background-color:yellow;">
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</body>

</html>
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A copy is also included with both the the downloadable source code package
and jar that contains class bytecodes, as file "ASL 2.0". In both cases,
that file should be located next to this file: in source distribution
the location should be "release-notes/asl"; and in jar "META-INF/"
Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

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from the source code management (SCM) system project uses.
Apache log4j
Copyright 2007 The Apache Software Foundation

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<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="utf-8">
 <meta http-equiv="X-UA-Compatible" content="IE=edge">
 <meta name="viewport" content="width=device-width, initial-scale=1">
 <meta name="description" content="Home page of The Apache Software Foundation">

 <link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">

```
 <link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
 <link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
 <link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
 <link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
 <link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
 <link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
 <link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
 <link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
 <link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
 <link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
 <link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
 <link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
 <link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
 <link rel="manifest" href="/favicons/manifest.json">
 <link rel="shortcut icon" href="/favicons/favicon.ico">
 <meta name="msapplication-TileColor" content="#603cba">
 <meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
 <meta name="msapplication-config" content="/favicons/browserconfig.xml">
 <meta name="theme-color" content="#303284">

 <title>Licenses</title>
 <link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
 <link href="/css/min.bootstrap.css" rel="stylesheet">
 <link href="/css/styles.css" rel="stylesheet">


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</head>

<body>
<!-- Navigation -->
<header>
 <nav class="navbar navbar-default navbar-fixed-top">
  <div class="container">
    <div class="navbar-header">
      <button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
        <span class="sr-only">Toggle navigation</span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
```

```
        <span class="icon-bar"></span>
       </button>
       <a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
     </div>
     <div class="collapse navbar-collapse" id="mainnav-collapse">
       <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a> &raquo <a
href="/licenses/">Licenses</a></div>
       <ul class="nav navbar-nav navbar-right">
        <li class="dropdown">
         <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
         <ul class="dropdown-menu" role="menu">
        <li><a href="/foundation">Overview</a></li>
        <li><a href="/foundation/members.html">Members</a></li>
        <li><a href="/foundation/how-it-works.html">Process</a></li>
        <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
        <li><a href="/foundation/glossary.html">Glossary</a></li>
        <li><a href="/foundation/preFAQ.html">FAQ</a></li>
        <li><a href="/foundation/contact.html ">Contact</a></li>
         </ul>
        </li>
   <li><a href="/index.html#projects-list">Projects</a></li>
     <li class="dropdown">
         <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
         <ul class="dropdown-menu" role="menu">
       <li><a href="http://people.apache.org/">Overview</a></li>
       <li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
       <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
       <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
       <li><a href="http://planet.apache.org/">Planet Apache</a></li>
         </ul>
        </li>
        <li class="dropdown">
          <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
          <ul class="dropdown-menu" role="menu">
            <li><a href="/foundation/getinvolved.html">Overview</a></li>
        <li><a href="http://community.apache.org/">Community Development</a></li>
              <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
        <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
          </ul>
     </li>
        <li><a href="/dyn/closer.cgi">Download</a></li>
        <li class="dropdown">
         <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
          <ul class="dropdown-menu" role="menu">
        <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
        <li><a href="/foundation/contributing.html">Donations</a></li>
```

```
        <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
        <li><a href="/foundation/thanks.html">Thanks</a></li>
         </ul>
        </li>
       </ul>
     </div>
   </div>
 </nav>
</header>
<!-- / Navigation -->
<div class="container">
 <div class="row">
   <div class="col-md-9 col-sm-8 col-xs-12">
     <img src="/img/asf_logo.png" alt="Apache Logo" style="max-width: 100%;">
   </div>
   <div class="col-md-3 col-sm-4 col-xs-12">
     <div class="input-group" style="margin-bottom: 5px;">
    <script>
 (function() {
   var cx = '005703438322411770421:5mgshgrgx2u';
   var gcse = document.createElement('script');
   gcse.type = 'text/javascript';
   gcse.async = true;
   gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
       '//cse.google.com/cse.js?cx=' + cx;
   var s = document.getElementsByTagName('script')[0];
   s.parentNode.insertBefore(gcse, s);
 })();
</script>
    <gcse:searchbox-only></gcse:searchbox-only>
   </div>
   <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
   <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
   <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
   </div>
 </div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
  It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
 visibility: hidden;
}
```

h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover > .headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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link">¶</h3>
http://www.apache.org/licenses/LICENSE-1.0
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Apache packages (such as version 1.2 of the Web server).
<h1 id="clas">Contributor License Agreements<a class="headerlink" href="#clas" title="Permanent
link">¶</h1>
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signing the CCLA.
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to be known as Andrew Dickens, please enter the latter as your Public name.
The email address and other contact details are not published.
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Incubator or one of the PMCs, since the ASF
will not accept software unless there is a viable community available to
support a collaborative project.
<h1 id="submitting">Submitting License Agreements and Grants<a class="headerlink" href="#submitting"
title="Permanent link">¶</h1>
Documents may be submitted by fax or email.
If submitting by fax, please print, sign, and fax all pages of the document
to +1-919-573-9199. Please send documents right-side-up, first page first;
and send only one document per fax.
If submitting by email, please fill the form with a pdf viewer,

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and email the pdf file as an attachment to secretary@apache.org. If possible,
send the attachment from the email address in the document.
Please send only one document per email.
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file by preparing a detached PGP signature. For example,
<blockquote>
gpg --armor --detach-sign icla.pdf
</blockquote>
The above will create a file icla.pdf.asc. Send both the file and signature
as attachments in the same email to secretary@apache.org. Please send only one
document (file plus signature) per email. Please do not submit your public key to Apache.
Instead, please upload your public key to pgpkeys.mit.edu.
The files typically are named
icla.pdf and icla.pdf.asc for individual agreements;
ccla.pdf and ccla.pdf.asc for corporate agreements;
software-grant.pdf and software-grant.pdf.asc for grants.
<h1 id="crypto">Export restrictions¶</h1>
For export restriction information, please consult our ASF Export
Classifications page.
<h1 id="trademarks">Trademark and Logo Usage<a class="headerlink" href="#trademarks" title="Permanent
link">¶</h1>
For ASF trademark and logo usage information, please consult our ASF
Trademark Use Policy page.
<h1 id="questions">Questions?¶</h1>
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<!-- Footer -->

<footer class="bg-primary">

        <h5 class="white">Community</h5>
        <ul class="list-unstyled white" role="menu">
    Overview
    Conferences
    Summer of Code
    Getting Started
    The Apache Way
    Travel Assistance
    Get Involved
    Community FAQ

```
      </ul>
</div>

<div class="col-sm-2">
 <h5 class="white">Innovation</h5>
      <ul class="list-unstyled white" role="menu">
  <li><a href="http://incubator.apache.org/">Incubator</a></li>
  <li><a href="http://labs.apache.org/">Labs</a></li>
  <li><a href="/licenses/">Licensing</a></li>
  <li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
  <li><a href="/foundation/marks/">Trademark Policy</a></li>
  <li><a href="/foundation/contact.html">Contacts</a></li>
      </ul>
</div>

<div class="col-sm-2">
 <h5 class="white">Tech Operations</h5>
     <ul class="list-unstyled white" role="menu">
   <li><a href="/dev/">Developer Information</a></li>
   <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
   <li><a href="/security/">Security</a></li>
   <li><a href="http://status.apache.org">Status</a></li>
   <li><a href="/foundation/contact.html">Contacts</a></li>
     </ul>
</div>

<div class="col-sm-2">
 <h5 class="white">Press</h5>
    <ul class="list-unstyled white" role="menu">
  <li><a href="/press/">Overview</a></li>
  <li><a href="https://blogs.apache.org/">ASF News</a></li>
  <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
  <li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
  <li><a href="/press/#contact">Contacts</a></li>
    </ul>
</div>

<div class="col-sm-2">
 <h5 class="white">Legal</h5>
    <ul class="list-unstyled white" role="menu">
  <li><a href="/legal/">Legal Affairs</a></li>
  <li><a href="/licenses/">Licenses</a></li>
  <li><a href="/foundation/marks/">Trademark Policy</a></li>
  <li><a href="/foundation/records/">Public Records</a></li>
      <li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
  <li><a href="/licenses/exports/">Export Information</a></li>
  <li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
  <li><a href="/foundation/contact.html">Contacts</a></li>
```

```
      </ul>
    </div>

    <div class="col-sm-1">
    </div>

   </div>
   <hr class="col-lg-12 hr-white" />
   <div class="row">
    <div class="col-lg-12">
     <p class="text-center">Copyright &amp;#169; 2016 The Apache Software Foundation, Licensed under the <a class="white" href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
     <p class="text-center">Apache and the Apache feather logo are trademarks of The Apache Software Foundation.</p>
    </div>
   </div>
  </div>

</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>
```

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Version 2.0, January 2004

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1.10 aws-java-sdk-transcribe 1.12.199

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1.11 dom 1.0

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DOMASException.java
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*/
/**
   * Checks if this content model has had its min/maxOccurs values reduced for
   * purposes of speeding up UPA.  If so, this content model should not be used
   * for any purpose other than checking unique particle attribution
   *
   * @return a boolean that says whether this content has been compacted for UPA
   */
```

Found in path(s):
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*/
/**
  * DOM Level 3 LS CR - Experimental.
   * Create a new <code>LSParser</code>. The newly constructed parser may
   * then be configured by means of its <code>DOMConfiguration</code>
   * object, and used to parse documents by means of its <code>parse</code>
   *  method.
   * @param mode  The <code>mode</code> argument is either
   *   <code>MODE_SYNCHRONOUS</code> or <code>MODE_ASYNCHRONOUS</code>, if
   *   <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
   *   <code>LSParser</code> that is created will operate in synchronous
   *   mode, if it's <code>MODE_ASYNCHRONOUS</code> then the
```

```
    *   <code>LSParser</code> that is created will operate in asynchronous
    *   mode.
    * @param schemaType  An absolute URI representing the type of the schema
    *   language used during the load of a <code>Document</code> using the
    *   newly created <code>LSParser</code>. Note that no lexical checking
    *   is done on the absolute URI. In order to create a
    *   <code>LSParser</code> for any kind of schema types (i.e. the
    *   LSParser will be free to use any schema found), use the value
    *   <code>null</code>.
    * <p ><b>Note:</b>    For W3C XML Schema [<a href='http://www.w3.org/TR/2001/REC-xmlschema-1-
20010502/'>XML Schema Part 1</a>]
    *   , applications must use the value
    *   <code>"http://www.w3.org/2001/XMLSchema"</code>. For XML DTD [<a
href='http://www.w3.org/TR/2000/REC-xml-20001006'>XML 1.0</a>],
    *   applications must use the value
    *   <code>"http://www.w3.org/TR/REC-xml"</code>. Other Schema languages
    *   are outside the scope of the W3C and therefore should recommend an
    *   absolute URI in order to use this method.
    * @return  The newly created <code>LSParser</code> object. This
    *   <code>LSParser</code> is either synchronous or asynchronous
    *   depending on the value of the <code>mode</code> argument.
    * <p ><b>Note:</b>    By default, the newly created <code>LSParser</code>
    *    does not contain a <code>DOMErrorHandler</code>, i.e. the value of
    *   the "<a href='http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-
handler'>
    *   error-handler</a>" configuration parameter is <code>null</code>. However, implementations
    *   may provide a default error handler at creation time. In that case,
    *   the initial value of the <code>"error-handler"</code> configuration
    *   parameter on the new created <code>LSParser</code> contains a
    *   reference to the default error handler.
    * @exception DOMException
    *    NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
    *   not supported.
     */
```

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java
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*/
/**
   * used to check the 3 constraints against each complex type
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   * Element Declrations Consistent.
   */
```

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDElementTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLErrorHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLFrameElementImpl.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/ShadowedSymbolTable.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/ObjectListImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLImgElementImpl.java
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1.12 aws-java-sdk-redshiftdataapi 1.12.199

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1.13 aws-java-sdk-ses 1.12.199

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1.14 jackson-databind 2.13.3

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Jackson JSON processor

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1.16 protobuf-java 3.11.4

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1.26 aws-java-sdk-securityhub 1.12.199

1.26.1 Available under license :

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1.27 procps 3.3.10-28.el7

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1.33 rpm-python 4.11.3-48.el7_9

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```
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```
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1.34 aws-java-sdk-personalizeevents 1.12.199

1.34.1 Available under license :

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1.35 joda-convert 1.2

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1.36 lz4-java 1.7.1

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1.38 commons-logging 1.2

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1.39 javassist 3.28.0-GA

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* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/CtBehavior.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/CtMember.java
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* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/util/proxy/SerializedProxy.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/compiler/SymbolTable.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/AnnotationsAttribute.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/tools/Dump.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/ByteArray.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/URLClassPath.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/tools/rmi/RemoteException.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/compiler/ast/Visitor.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/LongVector.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/tools/rmi/RemoteRef.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/convert/TransformFieldAccess.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/LocalVariableAttribute.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/tools/web/BadHttpRequest.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/FieldInfo.java

* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/tools/reflect/Metalevel.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/NotFoundException.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/expr/NewExpr.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/Mnemonic.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/util/proxy/RuntimeSupport.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/convert/TransformNew.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/util/proxy/ProxyObjectInputStream.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/tools/reflect/Loader.java
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* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/analysis/SubroutineScanner.java

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1.44 tar 1.26-35.el7

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

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1.67 jakarta-validation-api 2.0.2

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1.68 gson 2.8.9

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* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/sql/SqlTimeTypeAdapter.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/LazilyParsedNumber.java
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* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java
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* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/TypeAdapter.java
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jar/com/google/gson/JsonSerializationContext.java
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* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/annotations/JsonAdapter.java

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1.85 lua 5.1.4 15.el7

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1.86 binutils 2.27-44.base.el7_9.1

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you have the freedom to distribute copies of free software (and charge
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it if you want it; that you can change the software and use pieces of it
in new free programs; and that you are informed that you can do these
things.

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distributors to deny you these rights or to ask you to surrender these

rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
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When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
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entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

We call this license the @dfn{Lesser} General Public License because it
does @emph{Less} to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages

are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library'' and a ``work that uses the library''. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

@iftex
@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end iftex
@ifinfo
@center GNU LESSER GENERAL PUBLIC LICENSE
@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end ifinfo

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``Source code'' for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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@enumerate a
@item
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@item

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@item
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in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)
@end enumerate

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ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

@item
You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

@item
A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a ``work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

 However, linking a ``work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a ``work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

 When a ``work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

@item
As an exception to the Sections above, you may also combine or link a ``work that uses the Library'' with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

@enumerate a
@item
Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library'', as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

@item
Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs

one, as long as the modified version is interface-compatible with the
version that the work was made with.

@item
Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

@item
If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

@item
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
@end enumerate

For an executable, the required form of the ``work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

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facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

@enumerate a
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Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

@item
Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.
@end enumerate

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@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo

@page
@appendixsubsec How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively

convey the exclusion of warranty; and each file should have at least the
``copyright'' line and a pointer to where the full notice is found.

@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year} @var{name of author}

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This library is distributed in the hope that it will be useful, but
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Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301,
USA.
@end smallexample

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a ``copyright disclaimer'' for the library, if
necessary. Here is a sample; alter the names:

@smallexample
Yoyodyne, Inc., hereby disclaims all copyright interest in the library
`Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!
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works are solely in the form of machine-executable object code generated by
a source language processor.

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(This file is under construction.) -*- text -*-

If you've contributed to gas and your name isn't listed here, it is
not meant as a slight. I just don't know about it. Email me,
nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into
the documentation, and info on specific files will go into an AUTHORS
file, as requested by the FSF.

++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration including heavy testing and
verification of cross assemblers and file splits and renaming,
converted gas to strictly ansi C including full prototypes, added
support for m680[34]0 & cpu32, considerable work on i960 including a
coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host
ports, updated "know" assertions and made them work, much other
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of

Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

1.87 log4j-over-slf4j 1.7.32

1.87.1 Available under license :

No license file was found, but licenses were detected in source scan.

<url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>

Found in path(s):
* /opt/cola/permits/1198379913_1630347367.42/0/log4j-over-slf4j-1-7-32-jar/META-INF/maven/org.slf4j/log4j-over-slf4j/pom.xml

1.88 reactive-streams 1.0.3

1.88.1 Available under license :

No license file was found, but licenses were detected in source scan.

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* work. If not, see <http://creativecommons.org/publicdomain/zero/1.0/>.*
*************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1135840663_1613613063.73/0/reactive-streams-1-0-3-sources-3-jar/org/reactivestreams/Publisher.java
* /opt/cola/permits/1135840663_1613613063.73/0/reactive-streams-1-0-3-sources-3-jar/org/reactivestreams/FlowAdapters.java
* /opt/cola/permits/1135840663_1613613063.73/0/reactive-streams-1-0-3-sources-3-jar/org/reactivestreams/Processor.java
* /opt/cola/permits/1135840663_1613613063.73/0/reactive-streams-1-0-3-sources-3-jar/org/reactivestreams/Subscription.java
* /opt/cola/permits/1135840663_1613613063.73/0/reactive-streams-1-0-3-sources-3-jar/org/reactivestreams/Subscriber.java

1.89 aws-java-sdk-codestarconnections 1.12.199

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1.92 python-urlgrabber 3.10

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   * href="https://docs.aws.amazon.com/resourcegroupstagging/latest/APIReference/supported-
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   * <p>
   * Each resource can have up to 50 tags. For other limits, see <a
   * href="https://docs.aws.amazon.com/general/latest/gr/aws_tagging.html#tag-conventions">Tag Naming and
Usage
   * Conventions</a> in the <i>Amazon Web Services General Reference.</i>
   * </p>
   * </li>
   * <li>
   * <p>
   * You can only tag resources that are located in the specified Amazon Web Services Region for the Amazon Web
   * Services account.
   * </p>
   * </li>
   * <li>
   * <p>
   * To add tags to a resource, you need the necessary permissions for the service that the resource belongs to as
   * well as permissions for adding tags. For more information, see the documentation for each service.
   * </p>
   * </li>
   * </ul>
   * <important>
   * <p>
   * Do not store personally identifiable information (PII) or other confidential or sensitive information in tags. We
   * use tags to provide you with billing and administration services. Tags are not intended to be used for private or
   * sensitive data.
   * </p>
   * </important>
   * <p>
   * <b>Minimum permissions</b>
   * </p>
   * <p>
   * In addition to the <code>tag:TagResources</code> permission required by this operation, you must also have
the
   * tagging permission defined by the service that created the resource. For example, to tag an Amazon EC2
instance
   * using the <code>TagResources</code> operation, you must have both of the following permissions:
   * </p>
   * <ul>
   * <li>
   * <p>
```

```
    * <code>tag:TagResource</code>
    * </p>
    * </li>
    * <li>
    * <p>
    * <code>ec2:CreateTags</code>
    * </p>
    * </li>
    * </ul>
    *
    * @param tagResourcesRequest
    * @return Result of the TagResources operation returned by the service.
    * @throws InvalidParameterException
    *         This error indicates one of the following:</p>
    *         <ul>
    *         <li>
    *         <p>
    *         A parameter is missing.
    *         </p>
    *         </li>
    *         <li>
    *         <p>
    *         A malformed string was supplied for the request parameter.
    *         </p>
    *         </li>
    *         <li>
    *         <p>
    *         An out-of-range value was supplied for the request parameter.
    *         </p>
    *         </li>
    *         <li>
    *         <p>
    *         The target ID is invalid, unsupported, or doesn't exist.
    *         </p>
    *         </li>
    *         <li>
    *         <p>
    *         You can't access the Amazon S3 bucket for report storage. For more information, see <a href=
    *         "https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_policies_tag-policies-
prereqs.html#bucket-policies-org-report"
    *         >Additional Requirements for Organization-wide Tag Compliance Reports</a> in the <i>Organizations
User
    *         Guide.</i>
    *         </p>
    *         </li>
    * @throws ThrottledException
    *         The request was denied to limit the frequency of submitted requests.
    * @throws InternalServiceException
```

```
     *        The request processing failed because of an unknown error, exception, or failure. You can retry the
     *        request.
     * @sample AWSResourceGroupsTaggingAPI.TagResources
     * @see <a href="http://docs.aws.amazon.com/goto/WebAPI/resourcegroupstaggingapi-2017-01-
26/TagResources"
     *      target="_top">AWS API Documentation</a>
     */
```

Found in path(s):
* /opt/cola/permits/1463017245_1667606683.8571913/0/aws-java-sdk-resourcegroupstaggingapi-1-12-199-sources-jar/com/amazonaws/services/resourcegroupstaggingapi/AWSResourceGroupsTaggingAPI.java
* /opt/cola/permits/1463017245_1667606683.8571913/0/aws-java-sdk-resourcegroupstaggingapi-1-12-199-sources-jar/com/amazonaws/services/resourcegroupstaggingapi/AWSResourceGroupsTaggingAPIClient.java
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```
/*
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* Licensed under the Apache License, Version 2.0 (the "License"). You may not use this file except in compliance
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* the License. A copy of the License is located at
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* http://aws.amazon.com/apache2.0
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* or in the "license" file accompanying this file. This file is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR
* CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing
permissions
* and limitations under the License.
*/
```

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* /opt/cola/permits/1463017245_1667606683.8571913/0/aws-java-sdk-resourcegroupstaggingapi-1-12-199-sources-jar/com/amazonaws/services/resourcegroupstaggingapi/model/transform/StartReportCreationResultJsonUnmarshaller.java
* /opt/cola/permits/1463017245_1667606683.8571913/0/aws-java-sdk-resourcegroupstaggingapi-1-12-199-sources-jar/com/amazonaws/services/resourcegroupstaggingapi/model/PaginationTokenExpiredException.java
* /opt/cola/permits/1463017245_1667606683.8571913/0/aws-java-sdk-resourcegroupstaggingapi-1-12-199-sources-jar/com/amazonaws/services/resourcegroupstaggingapi/model/UntagResourcesRequest.java
* /opt/cola/permits/1463017245_1667606683.8571913/0/aws-java-sdk-resourcegroupstaggingapi-1-12-199-sources-jar/com/amazonaws/services/resourcegroupstaggingapi/model/transform/ThrottledExceptionUnmarshaller.java
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* /opt/cola/permits/1463017245_1667606683.8571913/0/aws-java-sdk-resourcegroupstaggingapi-1-12-199-sources-jar/com/amazonaws/services/resourcegroupstaggingapi/model/transform/GetTagValuesResultJsonUnmarshaller.java
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* /opt/cola/permits/1463017245_1667606683.8571913/0/aws-java-sdk-resourcegroupstaggingapi-1-12-199-sources-jar/com/amazonaws/services/resourcegroupstaggingapi/model/transform/GetTagKeysResultJsonUnmarshaller.java
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```
/**
   * <p>
   * Applies one or more tags to the specified resources. Note the following:
   * </p>
   * <ul>
   * <li>
   * <p>
   * Not all resources can have tags. For a list of services with resources that support tagging using this operation,
   * see <a
   * href="https://docs.aws.amazon.com/resourcegroupstagging/latest/APIReference/supported-
```

services.html">Services
* that support the Resource Groups Tagging API. If the resource doesn't yet support this operation, the
* resource's service might support tagging using its own API operations. For more information, refer to the
* documentation for that service.
*
*
*
*
* Each resource can have up to 50 tags. For other limits, see <a
* href="https://docs.aws.amazon.com/general/latest/gr/aws_tagging.html#tag-conventions">Tag Naming and
Usage
* Conventions in the Amazon Web Services General Reference.
*
*
*
*
* You can only tag resources that are located in the specified Amazon Web Services Region for the Amazon Web
* Services account.
*
*
*
*
* To add tags to a resource, you need the necessary permissions for the service that the resource belongs to as
* well as permissions for adding tags. For more information, see the documentation for each service.
*
*
*
* <important>
*
* Do not store personally identifiable information (PII) or other confidential or sensitive information in tags. We
* use tags to provide you with billing and administration services. Tags are not intended to be used for private or
* sensitive data.
*
* </important>
*
* Minimum permissions
*
*
* In addition to the <code>tag:TagResources</code> permission required by this operation, you must also have
the
* tagging permission defined by the service that created the resource. For example, to tag an Amazon EC2
instance
* using the <code>TagResources</code> operation, you must have both of the following permissions:
*
*
*
*
* <code>tag:TagResource</code>

```
   * </p>
   * </li>
   * <li>
   * <p>
   * <code>ec2:CreateTags</code>
   * </p>
   * </li>
   * </ul>
   *
   * @param tagResourcesRequest
   * @return A Java Future containing the result of the TagResources operation returned by the service.
   * @sample AWSResourceGroupsTaggingAPIAsync.TagResources
   * @see <a href="http://docs.aws.amazon.com/goto/WebAPI/resourcegroupstaggingapi-2017-01-
26/TagResources"
   *      target="_top">AWS API Documentation</a>
   */
```

Found in path(s):
* /opt/cola/permits/1463017245_1667606683.8571913/0/aws-java-sdk-resourcegroupstaggingapi-1-12-199-sources-jar/com/amazonaws/services/resourcegroupstaggingapi/AWSResourceGroupsTaggingAPIAsync.java

1.95 grpc-api 1.24.0

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  - Origin: javax.persistence, Copyright (c) 2008, 2017 Sun Microsystems, Oracle Corporation.

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  - Origin: javax.persistence, Copyright (c) 2008, 2017 Sun Microsystems, Oracle Corporation.

- Path: libraries/tools/kotlin-gradle-plugin-integration-tests/src/test/resources/testProject/noArgJpa/src/javax/persistence/Embeddable.java
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/* PRESENT 1 */
/* PRESENT 2 */
// PRESENT 3
/** ABSENT */
package/* ABSENT 1 */ normal
/* ABSENT 2 */

// COMMENTS: 3

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/* ABSENT */
class Some

// COMMENTS: 0
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JSCRE - in runtime/third_party/jscre
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dromaeo - in samples/third_party/dromaeo
Eclipse - in third_party/eclipse
gsutil = in third_party/gsutil
Guava - in third_party/guava
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weberknecht - in third_party/weberknecht

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```
package org.jetbrains.idl2k.util

import org.xml.sax.InputSource
import java.io.File
import javax.xml.xpath.XPathFactory

fun readCopyrightNoticeFromProfile(copyrightProfile: File): String {
  val template = copyrightProfile.reader().use { reader ->
     XPathFactory.newInstance().newXPath().evaluate("/component/copyright/option[@name='notice']/@value",
InputSource(reader))
  }
  val yearTemplate = "&#36;today.year"
```

```
  val year = java.time.LocalDate.now().year.toString()
  assert(yearTemplate in template)

  return template.replace(yearTemplate, year).lines().joinToString("", prefix = "/*\n", postfix = " */\n") { " * $it\n" }
}
/* PRESENT */

fun some() {}

// COMMENTS: 1
```

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That's all there is to it!
/* PRESENT */

package normal

// COMMENTS: 1
Google Dart Js backend was removed - https://code.google.com/p/dart/source/detail?r=4771

According to http://www.apache.org/legal/3party.html we can include "Google Dart Js backend" in source form,
because code license is "New BSD License" (Authorized License).

This part of code will be removed when kotlin will be rewritten on kotlin.
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====
/* PRESENT */

foo()

// COMMENTS: 1
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package org.jetbrains.kotlin.copyright

import junit.framework.AssertionFailedError
import org.jetbrains.kotlin.idea.copyright.UpdateKotlinCopyright
import org.jetbrains.kotlin.idea.test.KotlinLightCodeInsightFixtureTestCase
import org.jetbrains.kotlin.idea.test.PluginTestCaseBase
import org.jetbrains.kotlin.test.InTextDirectivesUtils

```
import org.junit.Assert
import java.io.File

abstract class AbstractUpdateKotlinCopyrightTest : KotlinLightCodeInsightFixtureTestCase() {
  fun doTest(path: String) {
    myFixture.configureByFile(path)

    val fileText = myFixture.file.text.trim()
    val expectedNumberOfComments = InTextDirectivesUtils.getPrefixedInt(fileText, "// COMMENTS: ") ?: run {
      if (fileText.isNotEmpty()) {
        throw AssertionFailedError("Every test should assert number of comments with `COMMENTS`
directive")
      } else {
        0
      }
    }

    val comments = UpdateKotlinCopyright.getExistentComments(myFixture.file)
    for (comment in comments) {
      val commentText = comment.text
      when {
        commentText.contains("PRESENT") -> {
        }
        commentText.contains("ABSENT") -> {
          throw AssertionFailedError("Unexpected comment found: `$commentText`")
        }
        else -> {
          throw AssertionFailedError("A comment with bad directive found: `$commentText`")
        }
      }
    }

    Assert.assertEquals(
      "Wrong number of comments found:\n${comments.joinToString(separator = "\n") { it.text }}\n",
      expectedNumberOfComments, comments.size
    )
  }

  override fun getTestDataPath() = File(PluginTestCaseBase.getTestDataPathBase(), "/copyright").path +
File.separator
}
/*
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*/

package tasks
```

```
import groovy.util.Node
import groovy.util.XmlParser
import org.gradle.api.DefaultTask
import org.gradle.api.Project
import org.gradle.api.tasks.Input
import org.gradle.api.tasks.InputFile
import org.gradle.api.tasks.OutputFile
import org.gradle.api.tasks.TaskAction
import java.io.File
import java.util.*



open class WriteCopyrightToFile : DefaultTask() {

  @InputFile
  var path = project.file("${project.rootDir}/.idea/copyright/apache.xml")

  @OutputFile
  var outputFile: File? = null

  @Input
  var commented: Boolean = true

  @TaskAction
  fun write() {
     if (commented) {
        outputFile!!.writeText(project.readCopyrightCommented())
     } else {
        outputFile!!.writeText(project.readCopyright())
     }
  }


  fun Project.readCopyright(): String {
     val file = rootDir.resolve(".idea/copyright/apache.xml")

     assert(file.exists()) {
        "File $file with copyright not found"
     }


     val xmlParser = XmlParser()
     val node = xmlParser.parse(file)
     assert(node.attribute("name") == "CopyrightManager") {
        "Format changed occasionally?"
     }
```

```
    val copyrightBlock = node.children().filterIsInstance<Node>().single()
    val noticeNode = copyrightBlock.children().filterIsInstance<Node>().single { it.attribute("name") == "notice" }
    return noticeNode.attribute("value").toString().replace("&#36;today.year",
GregorianCalendar()[Calendar.YEAR].toString())
  }

  fun Project.readCopyrightCommented(): String {
    return "/*\n" + readCopyright().prependIndent(" * ") + "\n */"
  }
}
```

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* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-jar/feign/auth/BasicAuthRequestInterceptor.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-jar/feign/RetryableException.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-jar/feign/ReflectiveFeign.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-jar/feign/codec/ErrorDecoder.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-jar/feign/Logger.java
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* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-jar/feign/codec/StringDecoder.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-jar/feign/Retryer.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-jar/feign/codec/DecodeException.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-jar/feign/Util.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-jar/feign/auth/Base64.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-jar/feign/FeignException.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-jar/feign/Client.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-jar/feign/MethodMetadata.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-jar/feign/Response.java
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* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-jar/feign/RequestInterceptor.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-jar/feign/Contract.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-jar/feign/Target.java

1.102 everit-json-schema 1.12.2

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* /opt/cola/permits/1463017667_1667606942.0216982/0/everit-json-schema-1-12-2-sources-3-jar/org/everit/json/schema/JSONPointer.java
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1.103 aws-java-sdk-iot1clickdevices 1.12.199

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1.104 metrics-jersey2 4.1.25

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1.105 aws-java-sdk-licensemanager 1.12.199

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1.106 libjpeg 6b

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DOCUMENTATION ROADMAP

==========

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
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Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
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Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and

remarkably high compression levels are possible if you can tolerate a
low-quality image. For more details, see the references, or just experiment
with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive
compression processes. Provision is made for supporting all variants of these
processes, although some uncommon parameter settings aren't implemented yet.
For legal reasons, we are not distributing code for the arithmetic-coding
variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting
the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files,
plus two sample applications "cjpeg" and "djpeg", which use the library to
perform conversion between JPEG and some other popular image file formats.
The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included
considerable functionality beyond the bare JPEG coding/decoding capability;
for example, the color quantization modules are not strictly part of JPEG
decoding, but they are essential for output to colormapped file formats or
colormapped displays. These extra functions can be compiled out of the
library if not required for a particular application. We have also included
"jpegtran", a utility for lossless transcoding between different JPEG
processes, and "rdjpgcom" and "wrjpgcom", two simple applications for
inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and
flexibility, while also making it fast enough to be useful. In particular,
the software is not intended to be read as a tutorial on JPEG. (See the
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of any program generated from the IJG code, this does not limit you more than
the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub,
ltconfig, ltmain.sh). Another support script, install-sh, is copyright
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It appears that the arithmetic coding option of the JPEG spec is covered by
patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot
legally be used without obtaining one or more licenses. For this reason,
support for arithmetic coding has been removed from the free JPEG software.
(Since arithmetic coding provides only a marginal gain over the unpatented
Huffman mode, it is unlikely that very many implementations will support it.)
So far as we are aware, there are no patent restrictions on the remaining
code.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support has
been removed altogether, and the GIF writer has been simplified to produce
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REFERENCES
==========

We highly recommend reading one or more of these references before trying to
understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is
 Wallace, Gregory K. "The JPEG Still Picture Compression Standard",
 Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.
(Adjacent articles in that issue discuss MPEG motion picture compression,
applications of JPEG, and related topics.) If you don't have the CACM issue
handy, a PostScript file containing a revised version of Wallace's article is
available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually
a preprint for an article that appeared in IEEE Trans. Consumer Electronics)
omits the sample images that appeared in CACM, but it includes corrections
and some added material. Note: the Wallace article is copyright ACM and IEEE,
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A somewhat less technical, more leisurely introduction to JPEG can be found in

"The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:
Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from
ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme
found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.
IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6).
Instead, we recommend the JPEG design proposed by TIFF Technical Note #2
(Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or
from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision
of the TIFF spec will replace the 6.0 JPEG design with the Note's design.
Although IJG's own code does not support TIFF/JPEG, the free libtiff library
uses our library to implement TIFF/JPEG per the Note. libtiff is available
from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet
address 192.48.96.9). The most recent released version can always be found
there in directory graphics/jpeg. This particular version will be archived
as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have
direct Internet access, UUNET's archives are also available via UUCP; contact
help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only
ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from
the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or
on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12
"JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net
release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of
general information about JPEG. It is updated constantly and therefore is
not included in this distribution. The FAQ is posted every two weeks to
Usenet newsgroups comp.graphics.misc, news.answers, and other groups.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/
and other news.answers archive sites, including the official news.answers
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 send usenet/news.answers/jpeg-faq/part1
 send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE
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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/. Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not.

(In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.107 bind 9.11.4-26.P2.el7_9.9

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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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* configure.ac, Makefile.am: The original versions were derived from the
 ones in the XML Catalog Manager project, version 2.2.

 Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
 derived form the ones in the Monotone project, revision
 3a0982da308228d796df35f98d787c5cff2bb5b6.

 Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
 These files were derived from the file_handle, systembuf, pipe and pistream
 classes and tests found in the Boost.Process library.

 Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
 admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
 except the first one, were first implemented in the Buildtool project.
 They were later adapted to be part of Boost.Process and, during that
 process, the shell script was created.

 Author: Julio Merino <jmmv84@gmail.com>

==
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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-
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-->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
 xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 xmlns:xi="http://www.w3.org/2001/XInclude"
 xmlns:db="http://docbook.org/ns/docbook">

```
 <xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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     file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
       <xsl:value-of select="$isc.copyright.breakline"/>
  <xsl:text>&#10;</xsl:text>
</xsl:for-each>
 <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
 </xsl:variable>
</xsl:stylesheet>

<!--
 - Local variables:
 - mode: sgml
 - End:
-->
```

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1.108 aws-java-sdk-ec2instanceconnect 1.12.199

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1.109 shadow 0.79-6.el7

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* /opt/cola/permits/1262997566_1643611399.53/0/error-prone-annotations-2-9-0-jar/META-INF/maven/com.google.errorprone/error_prone_annotations/pom.xml

1.112 jest-common 0.1.1

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* /opt/cola/permits/1277784461_1645759772.61/0/jest-common-0-1-1-sources-jar/io/searchbox/client/util/PaddedAtomicInteger.java

1.113 openssl 1.0.2u

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1.114 commons-lang3 3.12.0

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1.115 slf4j 1.7.36

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1.124 guice-multibindings 4.2.2

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/MapMakerInternalMap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/util/concurrent/Service.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/annotations/GwtCompatible.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/Cut.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/escape/Escapers.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/net/HostSpecifier.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/cache/LocalCache.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/io/LineProcessor.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/util/concurrent/JdkFutureAdapters.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-

jar/com/google/common/util/concurrent/AbstractIdleService.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/CacheBuilder.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AbstractService.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/SparseImmutableTable.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/RegularImmutableTable.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/reflect/TypeResolver.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/MapMaker.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/ReferenceEntry.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/net/InternetDomainName.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/html/HtmlEscapers.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/DenseImmutableTable.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/net/UrlEscapers.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/Callables.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/escape/ArrayBasedEscaperMap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/SettableFuture.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/SignedBytes.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ForwardingFluentFuture.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/escape/ArrayBasedCharEscaper.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/ByteProcessor.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/xml/XmlEscapers.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/UnsignedBytes.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/escape/Platform.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Platform.java

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/*
  * This method was rewritten in Java from an intermediate step of the Murmur hash function in
  * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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  */
```

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* the License.
*/
/**
* Holder for web specializations of methods of {@code Floats}. Intended to be empty for regular
* version.
```

*/

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*/
/*
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 *
 * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
 * java.util.HashMap class.
 */

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/Runnables.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Verify.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/FilteredMultimapValues.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/CharSequenceReader.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/package-info.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/FinalizablePhantomReference.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Suppliers.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Charsets.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/LineReader.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/FinalizableSoftReference.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/CharStreams.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Predicate.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/ByteStreams.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/Primitives.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/LineBuffer.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/FinalizableWeakReference.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Predicates.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Functions.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/AbstractIterator.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/HashBiMap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/eventbus/DeadEvent.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ExecutionList.java

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/Closeables.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/CountingOutputStream.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/FileBackedOutputStream.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/Shorts.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/Ints.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/MultiReader.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Joiner.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/escape/UnicodeEscaper.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/Longs.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/net/InetAddresses.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/escape/Escaper.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/SortedIterable.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/SortedIterables.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractRangeSet.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableSortedMultiset.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/GeneralRange.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingSortedMultiset.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/Striped64.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AtomicDoubleArray.java
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*/
/**
* Holder for web specializations of methods of {@code Doubles}. Intended to be empty for regular
* version.
*/

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*/
/**
  * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
  * key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
  * version.
  *
  * @throws UnsupportedOperationException always
  * @deprecated <b>Pass a key of type {@code Comparable} to use {@link
  *     ImmutableSortedMap#of(Comparable, Object)}.</b>
  */
```

Found in path(s):
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
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*/
/**
* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
* version.
*/
```

Found in path(s):
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/**
  * Returns an array containing all of the elements in the specified collection. This method
  * returns the elements in the order they are returned by the collection's iterator. The returned
  * array is "safe" in that no references to it are maintained by the collection. The caller is
  * thus free to modify the returned array.
  *
  * <p>This method assumes that the collection size doesn't change while the method is running.
  *
  * <p>TODO(kevinb): support concurrently modified collections?
  *
  * @param c the collection for which to return an array of elements
  */
```

Found in path(s):
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ObjectArrays.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/SuccessorsFunction.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/Graph.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/PredecessorsFunction.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/ImmutableGraph.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/Graphs.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/MutableGraph.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/Network.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/MutableNetwork.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/ImmutableNetwork.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/SortedMultisetBridge.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/DescendingImmutableSortedSet.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/FilteredKeySetMultimap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableEnumMap.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/TreeRangeMap.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/AllEqualOrdering.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/TreeTraverser.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/RegularImmutableAsList.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/CompactHashMap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/TransformedIterator.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingDeque.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingNavigableMap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/TransformedListIterator.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractMultimap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/CompactHashSet.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/Java8Compatibility.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/Java8Compatibility.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/math/ToDoubleRounder.java
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*/
/**
* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
* {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
* under GWT but with a slightly different signature.
*
* <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler wouldn't recognize
* it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/
```

Found in path(s):
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/Partially.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Java8Usage.java

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/reflect/MutableTypeToInstanceMap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/CharSource.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/CartesianList.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableRangeMap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/escape/package-info.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/LongAddable.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/BaseEncoding.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/ByteSource.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/math/PairedStatsAccumulator.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/reflect/ClassPath.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/math/StatsAccumulator.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/Closer.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/xml/package-info.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/math/PairedStats.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/reflect/Invokable.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/reflect/TypeCapture.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/math/Stats.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/RateLimiter.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/reflect/Parameter.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/reflect/Element.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/FileWriteMode.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/LongAddables.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/ByteSink.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ServiceManager.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/CharSink.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/AbstractByteHasher.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/math/LinearTransformation.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/html/package-info.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/SipHashFunction.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/reflect/package-info.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/ChecksumHashFunction.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableRangeSet.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/FilteredKeyMultimap.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/AbstractBaseGraph.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/BaseGraph.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ObjectCountHashMap.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/UnsignedInts.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/UnsignedLongs.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-

jar/com/google/common/hash/Crc32cHashFunction.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/CacheLoader.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/math/package-info.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AsyncFunction.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/Funnel.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/RemovalNotification.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/TreeRangeSet.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/Weigher.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/Uninterruptibles.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/net/HostAndPort.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/AbstractCompositeHashFunction.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/BloomFilterStrategies.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/HashCode.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ExecutionError.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/MessageDigestHashFunction.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/Murmur3_128HashFunction.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/math/IntMath.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/Hashing.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Optional.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/UncheckedExecutionException.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/math/LongMath.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AbstractScheduledService.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/RegularContiguousSet.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/CacheStats.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/AbstractStreamingHasher.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/Cache.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AtomicLongMap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/RemovalCause.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/WrappingExecutorService.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/PairwiseEquivalence.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/AbstractLoadingCache.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Absent.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/ForwardingCache.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/FunctionalEquivalence.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/math/DoubleUtils.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/EmptyContiguousSet.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/reflect/TypeParameter.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/RegularImmutableMultiset.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/UnsignedInteger.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/net/MediaType.java

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/SortedMultisets.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/UndirectedNetworkConnections.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/DirectedMultiNetworkConnections.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/MapIteratorCache.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/ForwardingNetwork.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/DirectedGraphConnections.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/StandardValueGraph.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/NetworkBuilder.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/EdgesConnecting.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/ElementOrder.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/StandardMutableGraph.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/GraphConstants.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/ImmutableValueGraph.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/AbstractGraphBuilder.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/NetworkConnections.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/MutableValueGraph.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/StandardMutableValueGraph.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/AbstractGraph.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/StandardNetwork.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/MapRetrievalCache.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/UndirectedGraphConnections.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/ValueGraph.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/GraphBuilder.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/EndpointPairIterator.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/Comparators.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/DirectedNetworkConnections.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/ForwardingGraph.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/StandardMutableNetwork.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/GraphConnections.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/EndpointPair.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/RangeGwtSerializationDependencies.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/MultiEdgesConnecting.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/ForwardingValueGraph.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/AbstractValueGraph.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/ValueGraphBuilder.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/RowSortedTable.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingImmutableCollection.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractSequentialIterator.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/UnmodifiableListIterator.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingListMultimap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/MinMaxPriorityQueue.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/SortedMapDifference.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/RegularImmutableSortedSet.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ArrayTable.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableSortedMap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingTable.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/DiscreteDomain.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableSetMultimap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableAsList.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/SingletonImmutableTable.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/EmptyImmutableSetMultimap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ComputationException.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ComparisonChain.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractIndexedListIterator.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableEnumSet.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableTable.java
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*/
/**
* Holder for web specializations of methods of {@code Ints}. Intended to be empty for regular
* version.
*/
```

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* the License.
*/
/*
  * This method was rewritten in Java from an intermediate step of the Murmur hash function in
  * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
  * following header:
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  * hereby disclaims copyright to this source code.
  */
```

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/annotations/VisibleForTesting.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/AppendableWriter.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/Futures.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/FluentFuture.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AbstractTransformFuture.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AggregateFuture.java

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/CollectionFuture.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/PatternFilenameFilter.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/CollectPreconditions.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableMapEntrySet.java
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*/
/**
* Holder for web specializations of methods of {@code Shorts}. Intended to be empty for regular
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```

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1.127 okhttp 2.7.4

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* /opt/cola/permits/1196234293_1629878885.03/0/okhttp-2-7-4-sources-3-jar/com/squareup/okhttp/internal/io/RealConnection.java
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* /opt/cola/permits/1196234293_1629878885.03/0/okhttp-2-7-4-sources-3-jar/com/squareup/okhttp/internal/http/StreamAllocation.java
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* /opt/cola/permits/1196234293_1629878885.03/0/okhttp-2-7-4-sources-3-jar/com/squareup/okhttp/Protocol.java
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* /opt/cola/permits/1196234293_1629878885.03/0/okhttp-2-7-4-sources-3-jar/com/squareup/okhttp/internal/http/HttpMethod.java
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* /opt/cola/permits/1196234293_1629878885.03/0/okhttp-2-7-4-sources-3-jar/com/squareup/okhttp/TlsVersion.java
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String.fromCharCode : Kotlin.toString;\r\n   return \"[\" + Array.prototype.map.call(a, function(e) { return toString(e); }).join(\", \") + \"]\";\r\n};\r\n\r\n\r\nKotlin.arrayDeepToString = function (arr) {\r\n   return Kotlin.kotlin.collections.contentDeepToStringImpl(arr);\r\n};\r\n\r\n\r\nKotlin.arrayEquals = function (a, b) {\r\n   if (a === b) {\r\n   return true;\r\n   }\r\n   if (!Kotlin.isArrayish(b) || a.length !== b.length) {\r\n   return false;\r\n   }\r\n\r\n   for (var i = 0, n = a.length; i < n; i++) {\r\n   if (!Kotlin.equals(a[i], b[i])) {\r\n   return false;\r\n   }\r\n   }\r\n   return true;\r\n};\r\n\r\n\r\nKotlin.arrayDeepEquals = function (a, b) {\r\n   return Kotlin.kotlin.collections.contentDeepEqualsImpl(a, b);\r\n};\r\n\r\n\r\nKotlin.arrayHashCode = function (arr) {\r\n   var result = 1;\r\n   for (var i = 0, n = arr.length; i < n; i++) {\r\n   result = ((31 * result | 0) + Kotlin.hashCode(arr[i])) | 0;\r\n   }\r\n   return result;\r\n};\r\n\r\n\r\nKotlin.arrayDeepHashCode = function (arr) {\r\n   return Kotlin.kotlin.collections.contentDeepHashCodeImpl(arr);\r\n};\r\n\r\n\r\nKotlin.primitiveArraySort = function (array) {\r\n   array.sort(Kotlin.doubleCompareTo)\r\n};\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and

Kotlin Programming Language contributors. \r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\nKotlin.getCallableRef = function(name, f) {\r\n f.callableName = name;\r\n return f;\r\n};\r\n\r\nKotlin.getPropertyCallableRef = function(name, paramCount, getter, setter) {\r\n getter.get = getter;\r\n getter.set = setter;\r\n getter.callableName = name;\r\n return getPropertyRefClass(getter, setter, propertyRefClassMetadataCache[paramCount]);\r\n};\r\n\r\nfunction getPropertyRefClass(obj, setter, cache) {\r\n obj.$metadata$ = getPropertyRefMetadata(typeof setter === \"function\" ? cache.mutable : cache.immutable);\r\n obj.constructor = obj;\r\n return obj;\r\n}\r\n\r\nvar propertyRefClassMetadataCache = [\r\n {\r\n mutable: { value: null, implementedInterface: function () {\r\n return Kotlin.kotlin.reflect.KMutableProperty0 }\r\n },\r\n immutable: { value: null, implementedInterface: function () {\r\n return Kotlin.kotlin.reflect.KProperty0 }\r\n }\r\n },\r\n {\r\n mutable: { value: null, implementedInterface: function () {\r\n return Kotlin.kotlin.reflect.KMutableProperty1 }\r\n },\r\n immutable: { value: null, implementedInterface: function () {\r\n return Kotlin.kotlin.reflect.KProperty1 }\r\n }\r\n }\r\n];\r\n\r\nfunction getPropertyRefMetadata(cache) {\r\n if (cache.value === null) {\r\n cache.value = {\r\n interfaces: [cache.implementedInterface()],\r\n baseClass: null,\r\n functions: {},\r\n properties: {},\r\n types: {},\r\n staticMembers: {}\r\n };\r\n }\r\n return cache.value;\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\nKotlin.toShort = function (a) {\r\n return (a & 0xFFFF) << 16 >> 16;\r\n};\r\n\r\nKotlin.toByte = function (a) {\r\n return (a & 0xFF) << 24 >> 24;\r\n};\r\n\r\nKotlin.toChar = function (a) {\r\n return a & 0xFFFF;\r\n};\r\n\r\nKotlin.numberToLong = function (a) {\r\n return a instanceof Kotlin.Long ? a : Kotlin.Long.fromNumber(a);\r\n};\r\n\r\nKotlin.numberToInt = function (a) {\r\n return a instanceof Kotlin.Long ? a.toInt() : Kotlin.doubleToInt(a);\r\n};\r\n\r\nKotlin.numberToShort = function (a) {\r\n return Kotlin.toShort(Kotlin.numberToInt(a));\r\n};\r\n\r\nKotlin.numberToByte = function (a) {\r\n return Kotlin.toByte(Kotlin.numberToInt(a));\r\n};\r\n\r\nKotlin.numberToDouble = function (a) {\r\n return +a;\r\n};\r\n\r\nKotlin.numberToChar = function (a) {\r\n return Kotlin.toChar(Kotlin.numberToInt(a));\r\n};\r\n\r\nKotlin.doubleToInt = function(a) {\r\n if (a > 2147483647) return 2147483647;\r\n if (a < -2147483648) return -2147483648;\r\n return a | 0;\r\n};\r\n\r\nKotlin.toBoxedChar = function (a) {\r\n if (a == null) return a;\r\n if (a instanceof Kotlin.BoxedChar) return a;\r\n return new Kotlin.BoxedChar(a);\r\n};\r\n\r\nKotlin.unboxChar = function(a) {\r\n if (a == null) return a;\r\n return Kotlin.toChar(a);\r\n};\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\nKotlin.equals = function (obj1, obj2) {\r\n if (obj1 == null) {\r\n return obj2 == null;\r\n }\r\n\r\n if (obj2 == null) {\r\n return false;\r\n }\r\n\r\n if (obj1 !== obj1) {\r\n return obj2 !== obj2;\r\n }\r\n\r\n if (typeof obj1 === \"object\" && typeof obj1.equals === \"function\") {\r\n return obj1.equals(obj2);\r\n }\r\n\r\n if (typeof obj1 === \"number\" && typeof obj2 === \"number\") {\r\n return obj1 === obj2 && (obj1 !== 0 || 1 / obj1 === 1 / obj2)\r\n }\r\n\r\n return obj1 === obj2;\r\n};\r\n\r\nKotlin.hashCode = function (obj) {\r\n if (obj == null) {\r\n return 0;\r\n }\r\n var objType = typeof obj;\r\n if (\"object\" === objType) {\r\n return \"function\" === typeof obj.hashCode ? obj.hashCode() : getObjectHashCode(obj);\r\n }\r\n if (\"function\" === objType) {\r\n return getObjectHashCode(obj);\r\n }\r\n if (\"number\" === objType) {\r\n return Kotlin.numberHashCode(obj);\r\n }\r\n if (\"boolean\" === objType) {\r\n return Number(obj)\r\n }\r\n\r\n var str = String(obj);\r\n return getStringHashCode(str);\r\n};\r\n\r\n\r\n\r\nKotlin.toString = function (o) {\r\n if (o == null) {\r\n return \"null\";\r\n }\r\n else if (Kotlin.isArrayish(o)) {\r\n return \"[...]\";\r\n }\r\n else {\r\n return o.toString();\r\n }\r\n};\r\n\r\n\r\n/** @const */\r\nvar POW_2_32 = 4294967296;\r\n\r\n// TODO: consider switching to Symbol type once we are on ES6.\r\n/** @const */\r\nvar OBJECT_HASH_CODE_PROPERTY_NAME = \"kotlinHashCodeValue$\";\r\n\r\n\r\nfunction getObjectHashCode(obj) {\r\n if (!(OBJECT_HASH_CODE_PROPERTY_NAME in obj)) {\r\n var hash =

(Math.random() * POW_2_32) | 0; // Make 32-bit singed integer.\r\n Object.defineProperty(obj, OBJECT_HASH_CODE_PROPERTY_NAME, { value: hash, enumerable: false });\r\n }\r\n return obj[OBJECT_HASH_CODE_PROPERTY_NAME];\r\n}\r\n\r\nfunction getStringHashCode(str) {\r\n var hash = 0;\r\n for (var i = 0; i < str.length; i++) {\r\n var code = str.charCodeAt(i);\r\n hash = (hash * 31 + code) | 0; // Keep it 32-bit.\r\n }\r\n return hash;\r\n}\r\n\r\nKotlin.identityHashCode = getObjectHashCode;\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// Copyright 2009 The Closure Library Authors. All Rights Reserved.\r\n//\r\n// Licensed under the Apache License, Version 2.0 (the \"License\");\r\n// you may not use this file except in compliance with the License.\r\n// You may obtain a copy of the License at\r\n//\r\n// http://www.apache.org/licenses/LICENSE-2.0\r\n//\r\n// Unless required by applicable law or agreed to in writing, software\r\n// distributed under the License is distributed on an \"AS-IS\" BASIS,\r\n// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\r\n\r\n/**\r\n * Constructs a 64-bit two's-complement integer, given its low and high 32-bit\r\n * values as *signed* integers. See the from* functions below for more\r\n * convenient ways of constructing Longs.\r\n *\r\n * The internal representation of a long is the two given signed, 32-bit values.\r\n * We use 32-bit pieces because these are the size of integers on which\r\n * Javascript performs bit-operations. For operations like addition and\r\n * multiplication, we split each number into 16-bit pieces, which can easily be\r\n * multiplied within Javascript's floating-point representation without overflow\r\n * or change in sign.\r\n *\r\n * In the algorithms below, we frequently reduce the negative case to the\r\n * positive case by negating the input(s) and then post-processing the result.\r\n * Note that we must ALWAYS check specially whether those values are MIN_VALUE\r\n * (-2^63) because -MIN_VALUE == MIN_VALUE (since 2^63 cannot be represented as\r\n * a positive number, it overflows back into a negative). Not handling this\r\n * case would often result in infinite recursion.\r\n *\r\n * @param {number} low The low (signed) 32 bits of the long.\r\n * @param {number} high The high (signed) 32 bits of the long.\r\n * @constructor\r\n * @final\r\n */\r\nKotlin.Long = function(low, high) {\r\n /**\r\n * @type {number}\r\n * @private\r\n */\r\n this.low_ = low | 0; // force into 32 signed bits.\r\n\r\n /**\r\n * @type {number}\r\n * @private\r\n */\r\n this.high_ = high | 0; // force into 32 signed bits.\r\n};\r\n\r\nKotlin.Long.$metadata$ = {\r\n kind: \"class\",\r\n simpleName: \"Long\",\r\n interfaces:[]\r\n};\r\n\r\n\r\n// NOTE: Common constant values ZERO, ONE, NEG_ONE, etc. are defined below the\r\n// from* methods on which they depend.\r\n\r\n\r\n/**\r\n * A cache of the Long representations of small integer values.\r\n * @type {!Object}\r\n * @private\r\n */\r\nKotlin.Long.IntCache_ = {};\r\n\r\n\r\n/**\r\n * Returns a Long representing the given (32-bit) integer value.\r\n * @param {number} value The 32-bit integer in question.\r\n * @return {!Kotlin.Long} The corresponding Long value.\r\n */\r\nKotlin.Long.fromInt = function(value) {\r\n if (-128 <= value && value < 128) {\r\n var cachedObj = Kotlin.Long.IntCache_[value];\r\n if (cachedObj) {\r\n return cachedObj;\r\n }\r\n }\r\n\r\n var obj = new Kotlin.Long(value | 0, value < 0 ? -1 : 0);\r\n if (-128 <= value && value < 128) {\r\n Kotlin.Long.IntCache_[value] = obj;\r\n }\r\n return obj;\r\n};\r\n\r\n\r\n\r\n/**\r\n * Converts this number value to `Long`.\r\n * The fractional part, if any, is rounded down.\r\n * Returns zero if this `Double` value is `NaN`, `Long.MIN_VALUE` if it's less than `Long.MIN_VALUE`,\r\n * `Long.MAX_VALUE` if it's bigger than `Long.MAX_VALUE`.\r\n * @param {number} value The number in question.\r\n * @return {!Kotlin.Long} The corresponding Long value.\r\n */\r\nKotlin.Long.fromNumber = function(value) {\r\n if (isNaN(value)) {\r\n return Kotlin.Long.ZERO;\r\n } else if (value <= -Kotlin.Long.TWO_PWR_63_DBL_) {\r\n return Kotlin.Long.MIN_VALUE;\r\n } else if (value + 1 >= Kotlin.Long.TWO_PWR_63_DBL_) {\r\n return Kotlin.Long.MAX_VALUE;\r\n } else if (value < 0) {\r\n return Kotlin.Long.fromNumber(-value).negate();\r\n } else {\r\n return new Kotlin.Long(\r\n (value % Kotlin.Long.TWO_PWR_32_DBL_) | 0,\r\n (value / Kotlin.Long.TWO_PWR_32_DBL_) | 0);\r\n }\r\n};\r\n\r\n\r\n\r\n/**\r\n * Returns a Long representing the 64-bit integer that comes by concatenating\r\n * the given high and low bits. Each is assumed to use 32 bits.\r\n * @param {number} lowBits The low 32-bits.\r\n * @param {number} highBits The high 32-bits.\r\n * @return {!Kotlin.Long} The corresponding Long value.\r\n */\r\nKotlin.Long.fromBits = function(lowBits, highBits) {\r\n return new Kotlin.Long(lowBits,

highBits);\r\n};\r\n\r\n\r\n/**\r\n * Returns a Long representation of the given string, written using the given\r\n * radix.\r\n * @param {string} str The textual representation of the Long.\r\n * @param {number=} opt_radix The radix in which the text is written.\r\n * @return {!Kotlin.Long} The corresponding Long value.\r\n */\r\nKotlin.Long.fromString = function(str, opt_radix) {\r\n if (str.length == 0) {\r\n   throw Error('number format error: empty string');\r\n }\r\n\r\n var radix = opt_radix || 10;\r\n if (radix < 2 || 36 < radix) {\r\n   throw Error('radix out of range: ' + radix);\r\n }\r\n\r\n if (str.charAt(0) == '-') {\r\n   return Kotlin.Long.fromString(str.substring(1), radix).negate();\r\n } else if (str.indexOf('-') >= 0) {\r\n   throw Error('number format error: interior \"-\" character: ' + str);\r\n }\r\n\r\n // Do several (8) digits each time through the loop, so as to\r\n // minimize the calls to the very expensive emulated div.\r\n var radixToPower = Kotlin.Long.fromNumber(Math.pow(radix, 8));\r\n\r\n var result = Kotlin.Long.ZERO;\r\n for (var i = 0; i < str.length; i += 8) {\r\n   var size = Math.min(8, str.length - i);\r\n   var value = parseInt(str.substring(i, i + size), radix);\r\n   if (size < 8) {\r\n   var power = Kotlin.Long.fromNumber(Math.pow(radix, size));\r\n   result = result.multiply(power).add(Kotlin.Long.fromNumber(value));\r\n   } else {\r\n   result = result.multiply(radixToPower);\r\n   result = result.add(Kotlin.Long.fromNumber(value));\r\n   }\r\n }\r\n return result;\r\n};\r\n\r\n\r\n// NOTE: the compiler should inline these constant values below and then remove\r\n// these variables, so there should be no runtime penalty for these.\r\n\r\n/**\r\n * Number used repeated below in calculations. This must appear before the\r\n * first call to any from* function below.\r\n * @type {number}\r\n * @private\r\n */\r\nKotlin.Long.TWO_PWR_16_DBL_ = 1 << 16;\r\n\r\n/**\r\n * @type {number}\r\n * @private\r\n */\r\nKotlin.Long.TWO_PWR_24_DBL_ = 1 << 24;\r\n\r\n/**\r\n * @type {number}\r\n * @private\r\n */\r\nKotlin.Long.TWO_PWR_32_DBL_ =\r\n   Kotlin.Long.TWO_PWR_16_DBL_ * Kotlin.Long.TWO_PWR_16_DBL_;\r\n\r\n/**\r\n * @type {number}\r\n * @private\r\n */\r\nKotlin.Long.TWO_PWR_31_DBL_ =\r\n   Kotlin.Long.TWO_PWR_32_DBL_ / 2;\r\n\r\n/**\r\n * @type {number}\r\n * @private\r\n */\r\nKotlin.Long.TWO_PWR_48_DBL_ =\r\n   Kotlin.Long.TWO_PWR_32_DBL_ * Kotlin.Long.TWO_PWR_16_DBL_;\r\n\r\n/**\r\n * @type {number}\r\n * @private\r\n */\r\nKotlin.Long.TWO_PWR_64_DBL_ =\r\n   Kotlin.Long.TWO_PWR_32_DBL_ * Kotlin.Long.TWO_PWR_32_DBL_;\r\n\r\n/**\r\n * @type {number}\r\n * @private\r\n */\r\nKotlin.Long.TWO_PWR_63_DBL_ =\r\n   Kotlin.Long.TWO_PWR_64_DBL_ / 2;\r\n\r\n/** @type {!Kotlin.Long} */\r\nKotlin.Long.ZERO = Kotlin.Long.fromInt(0);\r\n\r\n/** @type {!Kotlin.Long} */\r\nKotlin.Long.ONE = Kotlin.Long.fromInt(1);\r\n\r\n/** @type {!Kotlin.Long} */\r\nKotlin.Long.NEG_ONE = Kotlin.Long.fromInt(-1);\r\n\r\n/** @type {!Kotlin.Long} */\r\nKotlin.Long.MAX_VALUE =\r\n   Kotlin.Long.fromBits(0xFFFFFFFF | 0, 0x7FFFFFFF | 0);\r\n\r\n/** @type {!Kotlin.Long} */\r\nKotlin.Long.MIN_VALUE = Kotlin.Long.fromBits(0, 0x80000000 | 0);\r\n\r\n/**\r\n * @type {!Kotlin.Long}\r\n * @private\r\n */\r\nKotlin.Long.TWO_PWR_24_ = Kotlin.Long.fromInt(1 << 24);\r\n\r\n/** @return {number} The value, assuming it is a 32-bit integer. */\r\nKotlin.Long.prototype.toInt = function() {\r\n return this.low_;\r\n};\r\n\r\n/** @return {number} The closest floating-point representation to this value. */\r\nKotlin.Long.prototype.toNumber = function() {\r\n return this.high_ * Kotlin.Long.TWO_PWR_32_DBL_ +\r\n   this.getLowBitsUnsigned();\r\n};\r\n\r\n/** @return {number} The 32-bit hashCode of this value. */\r\nKotlin.Long.prototype.hashCode = function() {\r\n return this.high_ ^ this.low_;\r\n};\r\n\r\n/**\r\n * @param {number=} opt_radix The radix in which the text should be written.\r\n * @return {string} The textual representation of this value.\r\n * @override\r\n */\r\nKotlin.Long.prototype.toString = function(opt_radix) {\r\n var radix = opt_radix || 10;\r\n if (radix < 2 || 36 < radix) {\r\n   throw Error('radix out of range: ' + radix);\r\n }\r\n\r\n if (this.isZero()) {\r\n   return '0';\r\n }\r\n\r\n if (this.isNegative()) {\r\n   if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\r\n   // We need to change the Long value before it can be negated, so we remove\r\n   // the bottom-most digit in this base and then recurse to do the rest.\r\n   var radixLong = Kotlin.Long.fromNumber(radix);\r\n   var div = this.div(radixLong);\r\n   var rem = div.multiply(radixLong).subtract(this);\r\n   return div.toString(radix) + rem.toInt().toString(radix);\r\n   } else {\r\n   return '-' + this.negate().toString(radix);\r\n   }\r\n }\r\n\r\n // Do several (6) digits each time through the loop, so as to\r\n // minimize the calls to the very expensive emulated div.\r\n var radixToPower =

Kotlin.Long.fromNumber(Math.pow(radix, 6));\r\n\r\n var rem = this;\r\n var result = '';\r\n while (true) {\r\n   var remDiv = rem.div(radixToPower);\r\n   var intval = rem.subtract(remDiv.multiply(radixToPower)).toInt();\r\n   var digits = intval.toString(radix);\r\n\r\n\r\n   rem = remDiv;\r\n   if (rem.isZero()) {\r\n   return digits + result;\r\n   } else {\r\n   while (digits.length < 6) {\r\n   digits = '0' + digits;\r\n   }\r\n   result = '' + digits + result;\r\n   }\r\n }\r\n};\r\n\r\n\r\n\r\n/** @return {number} The high 32-bits as a signed value.
*/\r\nKotlin.Long.prototype.getHighBits = function() {\r\n return this.high_;\r\n};\r\n\r\n\r\n\r\n/** @return {number} The low 32-bits as a signed value. */\r\nKotlin.Long.prototype.getLowBits = function() {\r\n return this.low_;\r\n};\r\n\r\n\r\n\r\n/** @return {number} The low 32-bits as an unsigned value.
*/\r\nKotlin.Long.prototype.getLowBitsUnsigned = function() {\r\n return (this.low_ >= 0) ?\r\n   this.low_ : Kotlin.Long.TWO_PWR_32_DBL_ + this.low_;\r\n};\r\n\r\n\r\n\r\n/**\r\n * @return {number} Returns the number of bits needed to represent the absolute\r\n *   value of this Long.\r\n */\r\nKotlin.Long.prototype.getNumBitsAbs = function() {\r\n if (this.isNegative()) {\r\n   if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\r\n   return 64;\r\n   } else {\r\n   return this.negate().getNumBitsAbs();\r\n   }\r\n } else {\r\n   var val = this.high_ != 0 ? this.high_ : this.low_;\r\n   for (var bit = 31; bit > 0; bit--) {\r\n   if ((val & (1 << bit)) != 0) {\r\n   break;\r\n   }\r\n   }\r\n   return this.high_ != 0 ? bit + 33 : bit + 1;\r\n }\r\n};\r\n\r\n\r\n\r\n/** @return {boolean} Whether this value is zero.
*/\r\nKotlin.Long.prototype.isZero = function() {\r\n return this.high_ == 0 && this.low_ == 0;\r\n};\r\n\r\n\r\n\r\n/** @return {boolean} Whether this value is negative. */\r\nKotlin.Long.prototype.isNegative = function() {\r\n return this.high_ < 0;\r\n};\r\n\r\n\r\n\r\n/** @return {boolean} Whether this value is odd. */\r\nKotlin.Long.prototype.isOdd = function() {\r\n return (this.low_ & 1) == 1;\r\n};\r\n\r\n\r\n\r\n/**\r\n * @param {Kotlin.Long} other Long to compare against.\r\n * @return {boolean} Whether this Long equals the other.\r\n
*/\r\nKotlin.Long.prototype.equalsLong = function(other) {\r\n return (this.high_ == other.high_) && (this.low_ == other.low_);\r\n};\r\n\r\n\r\n\r\n/**\r\n * @param {Kotlin.Long} other Long to compare against.\r\n * @return {boolean} Whether this Long does not equal the other.\r\n */\r\nKotlin.Long.prototype.notEqualsLong = function(other) {\r\n return (this.high_ != other.high_) || (this.low_ != other.low_);\r\n};\r\n\r\n\r\n\r\n/**\r\n * @param {Kotlin.Long} other Long to compare against.\r\n * @return {boolean} Whether this Long is less than the other.\r\n
*/\r\nKotlin.Long.prototype.lessThan = function(other) {\r\n return this.compare(other) < 0;\r\n};\r\n\r\n\r\n\r\n/**\r\n * @param {Kotlin.Long} other Long to compare against.\r\n * @return {boolean} Whether this Long is less than or equal to the other.\r\n */\r\nKotlin.Long.prototype.lessThanOrEqual = function(other) {\r\n return this.compare(other) <= 0;\r\n};\r\n\r\n\r\n\r\n/**\r\n * @param {Kotlin.Long} other Long to compare against.\r\n * @return {boolean} Whether this Long is greater than the other.\r\n */\r\nKotlin.Long.prototype.greaterThan = function(other) {\r\n return this.compare(other) > 0;\r\n};\r\n\r\n\r\n\r\n/**\r\n * @param {Kotlin.Long} other Long to compare against.\r\n * @return {boolean} Whether this Long is greater than or equal to the other.\r\n
*/\r\nKotlin.Long.prototype.greaterThanOrEqual = function(other) {\r\n return this.compare(other) >= 0;\r\n};\r\n\r\n\r\n\r\n/**\r\n * Compares this Long with the given one.\r\n * @param {Kotlin.Long} other Long to compare against.\r\n * @return {number} 0 if they are the same, 1 if the this is greater, and -1\r\n *   if the given one is greater.\r\n */\r\nKotlin.Long.prototype.compare = function(other) {\r\n if (this.equalsLong(other)) {\r\n   return 0;\r\n }\r\n\r\n var thisNeg = this.isNegative();\r\n var otherNeg = other.isNegative();\r\n if (thisNeg && !otherNeg) {\r\n   return -1;\r\n }\r\n if (!thisNeg && otherNeg) {\r\n   return 1;\r\n }\r\n\r\n // at this point, the signs are the same, so subtraction will not overflow\r\n if (this.subtract(other).isNegative()) {\r\n   return -1;\r\n } else {\r\n   return 1;\r\n }\r\n};\r\n\r\n\r\n\r\n/** @return {!Kotlin.Long} The negation of this value.
*/\r\nKotlin.Long.prototype.negate = function() {\r\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\r\n   return Kotlin.Long.MIN_VALUE;\r\n } else {\r\n   return this.not().add(Kotlin.Long.ONE);\r\n }\r\n};\r\n\r\n\r\n\r\n/**\r\n * Returns the sum of this and the given Long.\r\n * @param {Kotlin.Long} other Long to add to this one.\r\n * @return {!Kotlin.Long} The sum of this and the given Long.\r\n */\r\nKotlin.Long.prototype.add = function(other) {\r\n // Divide each number into 4 chunks of 16 bits, and then sum the chunks.\r\n\r\n var a48 = this.high_ >>> 16;\r\n var a32 = this.high_ & 0xFFFF;\r\n var a16 = this.low_ >>> 16;\r\n var a00 = this.low_ & 0xFFFF;\r\n\r\n var b48 = other.high_ >>> 16;\r\n var b32 = other.high_ & 0xFFFF;\r\n var b16 = other.low_ >>> 16;\r\n var b00 = other.low_ & 0xFFFF;\r\n\r\n var c48 = 0, c32 = 0, c16 = 0, c00 = 0;\r\n c00 += a00 + b00;\r\n c16 += c00 >>>

16;\r\n c00 &= 0xFFFF;\r\n c16 += a16 + b16;\r\n c32 += c16 >>> 16;\r\n c16 &= 0xFFFF;\r\n c32 += a32 + b32;\r\n c48 += c32 >>> 16;\r\n c32 &= 0xFFFF;\r\n c48 += a48 + b48;\r\n c48 &= 0xFFFF;\r\n return Kotlin.Long.fromBits((c16 << 16) | c00, (c48 << 16) | c32);\r\n};\r\n\r\n\r\n\r\n/**\r\n * Returns the difference of this and the given Long.\r\n * @param {Kotlin.Long} other Long to subtract from this.\r\n * @return {!Kotlin.Long} The difference of this and the given Long.\r\n */\r\nKotlin.Long.prototype.subtract = function(other) {\r\n return this.add(other.negate());\r\n};\r\n\r\n\r\n\r\n/**\r\n * Returns the product of this and the given long.\r\n * @param {Kotlin.Long} other Long to multiply with this.\r\n * @return {!Kotlin.Long} The product of this and the other.\r\n */\r\nKotlin.Long.prototype.multiply = function(other) {\r\n if (this.isZero()) {\r\n   return Kotlin.Long.ZERO;\r\n } else if (other.isZero()) {\r\n   return Kotlin.Long.ZERO;\r\n }\r\n\r\n\r\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\r\n   return other.isOdd() ? Kotlin.Long.MIN_VALUE : Kotlin.Long.ZERO;\r\n } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {\r\n   return this.isOdd() ? Kotlin.Long.MIN_VALUE : Kotlin.Long.ZERO;\r\n }\r\n\r\n\r\n if (this.isNegative()) {\r\n   if (other.isNegative()) {\r\n   return this.negate().multiply(other.negate());\r\n   } else {\r\n   return this.negate().multiply(other).negate();\r\n   }\r\n } else if (other.isNegative()) {\r\n   return this.multiply(other.negate()).negate();\r\n }\r\n\r\n\r\n // If both longs are small, use float multiplication\r\n if (this.lessThan(Kotlin.Long.TWO_PWR_24_) &&\r\n   other.lessThan(Kotlin.Long.TWO_PWR_24_)) {\r\n   return Kotlin.Long.fromNumber(this.toNumber() * other.toNumber());\r\n }\r\n\r\n\r\n // Divide each long into 4 chunks of 16 bits, and then add up 4x4 products.\r\n // We can skip products that would overflow.\r\n\r\n\r\n var a48 = this.high_ >>> 16;\r\n var a32 = this.high_ & 0xFFFF;\r\n var a16 = this.low_ >>> 16;\r\n var a00 = this.low_ & 0xFFFF;\r\n\r\n\r\n var b48 = other.high_ >>> 16;\r\n var b32 = other.high_ & 0xFFFF;\r\n var b16 = other.low_ >>> 16;\r\n var b00 = other.low_ & 0xFFFF;\r\n\r\n\r\n var c48 = 0, c32 = 0, c16 = 0, c00 = 0;\r\n c00 += a00 * b00;\r\n c16 += c00 >>> 16;\r\n c00 &= 0xFFFF;\r\n c16 += a16 * b00;\r\n c32 += c16 >>> 16;\r\n c16 &= 0xFFFF;\r\n c16 += a00 * b16;\r\n c32 += c16 >>> 16;\r\n c16 &= 0xFFFF;\r\n c32 += a32 * b00;\r\n c48 += c32 >>> 16;\r\n c32 &= 0xFFFF;\r\n c32 += a16 * b16;\r\n c48 += c32 >>> 16;\r\n c32 &= 0xFFFF;\r\n c32 += a00 * b32;\r\n c48 += c32 >>> 16;\r\n c32 &= 0xFFFF;\r\n c48 += a48 * b00 + a32 * b16 + a16 * b32 + a00 * b48;\r\n c48 &= 0xFFFF;\r\n return Kotlin.Long.fromBits((c16 << 16) | c00, (c48 << 16) | c32);\r\n};\r\n\r\n\r\n\r\n/**\r\n * Returns this Long divided by the given one.\r\n * @param {Kotlin.Long} other Long by which to divide.\r\n * @return {!Kotlin.Long} This Long divided by the given one.\r\n */\r\nKotlin.Long.prototype.div = function(other) {\r\n if (other.isZero()) {\r\n   throw Error('division by zero');\r\n } else if (this.isZero()) {\r\n   return Kotlin.Long.ZERO;\r\n }\r\n\r\n\r\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\r\n   if (other.equalsLong(Kotlin.Long.ONE) ||\r\n   other.equalsLong(Kotlin.Long.NEG_ONE)) {\r\n   return Kotlin.Long.MIN_VALUE; // recall that -MIN_VALUE == MIN_VALUE\r\n   } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {\r\n   return Kotlin.Long.ONE;\r\n   } else {\r\n   // At this point, we have |other| >= 2, so |this/other| < |MIN_VALUE|.\r\n   var halfThis = this.shiftRight(1);\r\n   var approx = halfThis.div(other).shiftLeft(1);\r\n   if (approx.equalsLong(Kotlin.Long.ZERO)) {\r\n   return other.isNegative() ? Kotlin.Long.ONE : Kotlin.Long.NEG_ONE;\r\n   } else {\r\n   var rem = this.subtract(other.multiply(approx));\r\n   var result = approx.add(rem.div(other));\r\n   return result;\r\n   }\r\n   }\r\n } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {\r\n   return Kotlin.Long.ZERO;\r\n }\r\n\r\n\r\n if (this.isNegative()) {\r\n   if (other.isNegative()) {\r\n   return this.negate().div(other.negate());\r\n   } else {\r\n   return this.negate().div(other).negate();\r\n   }\r\n } else if (other.isNegative()) {\r\n   return this.div(other.negate()).negate();\r\n }\r\n\r\n\r\n // Repeat the following until the remainder is less than other: find a\r\n // floating-point that approximates remainder / other *from below*, add this\r\n // into the result, and subtract it from the remainder. It is critical that\r\n // the approximate value is less than or equal to the real value so that the\r\n // remainder never becomes negative.\r\n var res = Kotlin.Long.ZERO;\r\n var rem = this;\r\n while (rem.greaterThanOrEqual(other)) {\r\n   // Approximate the result of division. This may be a little greater or\r\n   // smaller than the actual value.\r\n   var approx = Math.max(1, Math.floor(rem.toNumber() / other.toNumber()));\r\n\r\n\r\n   // We will tweak the approximate result by changing it in the 48-th digit or\r\n   // the smallest non-fractional digit, whichever is larger.\r\n   var log2 = Math.ceil(Math.log(approx) / Math.LN2);\r\n

var delta = (log2 <= 48) ? 1 : Math.pow(2, log2 - 48);\r\n\r\n // Decrease the approximation until it is smaller than the remainder. Note\r\n // that if it is too large, the product overflows and is negative.\r\n var approxRes = Kotlin.Long.fromNumber(approx);\r\n var approxRem = approxRes.multiply(other);\r\n while (approxRem.isNegative() || approxRem.greaterThan(rem)) {\r\n   approx -= delta;\r\n   approxRes = Kotlin.Long.fromNumber(approx);\r\n   approxRem = approxRes.multiply(other);\r\n }\r\n\r\n // We know the answer can't be zero... and actually, zero would cause\r\n // infinite recursion since we would make no progress.\r\n if (approxRes.isZero()) {\r\n   approxRes = Kotlin.Long.ONE;\r\n }\r\n\r\n res = res.add(approxRes);\r\n rem = rem.subtract(approxRem);\r\n }\r\n return res;\r\n};\r\n\r\n\r\n\r\n/**\r\n * Returns this Long modulo the given one.\r\n * @param {Kotlin.Long} other Long by which to mod.\r\n * @return {!Kotlin.Long} This Long modulo the given one.\r\n */\r\nKotlin.Long.prototype.modulo = function(other) {\r\n return this.subtract(this.div(other).multiply(other));\r\n};\r\n\r\n\r\n\r\n/** @return {!Kotlin.Long} The bitwise-NOT of this value. */\r\nKotlin.Long.prototype.not = function() {\r\n return Kotlin.Long.fromBits(~this.low_, ~this.high_);\r\n};\r\n\r\n\r\n\r\n/**\r\n * Returns the bitwise-AND of this Long and the given one.\r\n * @param {Kotlin.Long} other The Long with which to AND.\r\n * @return {!Kotlin.Long} The bitwise-AND of this and the other.\r\n */\r\nKotlin.Long.prototype.and = function(other) {\r\n return Kotlin.Long.fromBits(this.low_ & other.low_,\r\n   this.high_ & other.high_);\r\n};\r\n\r\n\r\n\r\n/**\r\n * Returns the bitwise-OR of this Long and the given one.\r\n * @param {Kotlin.Long} other The Long with which to OR.\r\n * @return {!Kotlin.Long} The bitwise-OR of this and the other.\r\n */\r\nKotlin.Long.prototype.or = function(other) {\r\n return Kotlin.Long.fromBits(this.low_ | other.low_,\r\n   this.high_ | other.high_);\r\n};\r\n\r\n\r\n\r\n/**\r\n * Returns the bitwise-XOR of this Long and the given one.\r\n * @param {Kotlin.Long} other The Long with which to XOR.\r\n * @return {!Kotlin.Long} The bitwise-XOR of this and the other.\r\n */\r\nKotlin.Long.prototype.xor = function(other) {\r\n return Kotlin.Long.fromBits(this.low_ ^ other.low_,\r\n   this.high_ ^ other.high_);\r\n};\r\n\r\n\r\n\r\n/**\r\n * Returns this Long with bits shifted to the left by the given amount.\r\n * @param {number} numBits The number of bits by which to shift.\r\n * @return {!Kotlin.Long} This shifted to the left by the given amount.\r\n */\r\nKotlin.Long.prototype.shiftLeft = function(numBits) {\r\n numBits &= 63;\r\n if (numBits == 0) {\r\n   return this;\r\n } else {\r\n   var low = this.low_;\r\n   if (numBits < 32) {\r\n   var high = this.high_;\r\n   return Kotlin.Long.fromBits(\r\n   low << numBits,\r\n   (high << numBits) | (low >>> (32 - numBits)));\r\n   } else {\r\n   return Kotlin.Long.fromBits(0, low << (numBits - 32));\r\n   }\r\n }\r\n};\r\n\r\n\r\n\r\n/**\r\n * Returns this Long with bits shifted to the right by the given amount.\r\n * @param {number} numBits The number of bits by which to shift.\r\n * @return {!Kotlin.Long} This shifted to the right by the given amount.\r\n */\r\nKotlin.Long.prototype.shiftRight = function(numBits) {\r\n numBits &= 63;\r\n if (numBits == 0) {\r\n   return this;\r\n } else {\r\n   var high = this.high_;\r\n   if (numBits < 32) {\r\n   var low = this.low_;\r\n   return Kotlin.Long.fromBits(\r\n   (low >>> numBits) | (high << (32 - numBits)),\r\n   high >> numBits);\r\n   } else {\r\n   return Kotlin.Long.fromBits(\r\n   high >> (numBits - 32),\r\n   high >= 0 ? 0 : -1);\r\n   }\r\n }\r\n};\r\n\r\n\r\n\r\n/**\r\n * Returns this Long with bits shifted to the right by the given amount, with\r\n * zeros placed into the new leading bits.\r\n * @param {number} numBits The number of bits by which to shift.\r\n * @return {!Kotlin.Long} This shifted to the right by the given amount, with\r\n *   zeros placed into the new leading bits.\r\n */\r\nKotlin.Long.prototype.shiftRightUnsigned = function(numBits) {\r\n numBits &= 63;\r\n if (numBits == 0) {\r\n   return this;\r\n } else {\r\n   var high = this.high_;\r\n   if (numBits < 32) {\r\n   var low = this.low_;\r\n   return Kotlin.Long.fromBits(\r\n   (low >>> numBits) | (high << (32 - numBits)),\r\n   high >>> numBits);\r\n   } else if (numBits == 32) {\r\n   return Kotlin.Long.fromBits(high, 0);\r\n   } else {\r\n   return Kotlin.Long.fromBits(high >>> (numBits - 32), 0);\r\n   }\r\n }\r\n};\r\n\r\n\r\n// Support for Kotlin\r\nKotlin.Long.prototype.equals = function (other) {\r\n   return other instanceof Kotlin.Long &&\n   this.equalsLong(other);\r\n};\r\n\r\n\r\nKotlin.Long.prototype.compareTo_11rb$ = Kotlin.Long.prototype.compare;\r\n\r\n\r\nKotlin.Long.prototype.inc = function() {\r\n   return this.add(Kotlin.Long.ONE);\r\n};\r\n\r\n\r\nKotlin.Long.prototype.dec = function() {\r\n   return this.add(Kotlin.Long.NEG_ONE);\r\n};\r\n\r\n\r\nKotlin.Long.prototype.valueOf = function() {\r\n   return

this.toNumber();\r\n};\r\n\r\nKotlin.Long.prototype.unaryPlus = function() {\r\n   return this;\r\n};\r\n\r\nKotlin.Long.prototype.unaryMinus = Kotlin.Long.prototype.negate;\r\nKotlin.Long.prototype.inv = Kotlin.Long.prototype.not;\r\n\r\nKotlin.Long.prototype.rangeTo = function (other) {\r\n   return new Kotlin.kotlin.ranges.LongRange(this, other);\r\n};","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n/**\r\n * @param {string} id\r\n * @param {Object} declaration\r\n */\r\nKotlin.defineModule = function (id, declaration) {\r\n};\r\n\r\nKotlin.defineInlineFunction = function(tag, fun) {\r\n   return fun;\r\n};\r\n\r\nKotlin.wrapFunction = function(fun) {\r\n   var f = function() {\r\n   f = fun();\r\n   return f.apply(this, arguments);\r\n   };\r\n   return function() {\r\n   return f.apply(this, arguments);\r\n   };\r\n};\r\n\r\nKotlin.isTypeOf = function(type) {\r\n   return function (object) {\r\n   return typeof object === type;\r\n   }\r\n};\r\n\r\nKotlin.isInstanceOf = function (klass) {\r\n   return function (object) {\r\n   return Kotlin.isType(object, klass);\r\n   }\r\n};\r\n\r\nKotlin.orNull = function (fn) {\r\n   return function (object) {\r\n   return object == null || fn(object);\r\n   }\r\n};\r\n\r\nKotlin.andPredicate = function (a, b) {\r\n   return function (object) {\r\n   return a(object) && b(object);\r\n   }\r\n};\r\n\r\nKotlin.kotlinModuleMetadata = function (abiVersion, moduleName, data) {\r\n};\r\n\r\nKotlin.suspendCall = function(value) {\r\n   return value;\r\n};\r\n\r\nKotlin.coroutineResult = function(qualifier) {\r\n   throwMarkerError();\r\n};\r\n\r\nKotlin.coroutineController = function(qualifier) {\r\n   throwMarkerError();\r\n};\r\n\r\nKotlin.coroutineReceiver = function(qualifier) {\r\n   throwMarkerError();\r\n};\r\n\r\nKotlin.setCoroutineResult = function(value, qualifier) {\r\n   throwMarkerError();\r\n};\r\n\r\n\r\nfunction throwMarkerError() {\r\n   throw new Error(\r\n   \"This marker function should never been called. \" +\r\n   \"Looks like compiler did not eliminate it properly. \" +\r\n   \"Please, report an issue if you caught this exception.\");\r\n}\r\n\r\n\r\nKotlin.getFunctionById = function(id, defaultValue) {\r\n   return function() {\r\n   return defaultValue;\r\n   }\r\n};","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\nKotlin.compareTo = function (a, b) {\r\n   var typeA = typeof a;\r\n   if (typeA === \"number\") {\r\n   if (typeof b === \"number\") {\r\n   return Kotlin.doubleCompareTo(a, b);\r\n   }\r\n   return Kotlin.primitiveCompareTo(a, b);\r\n   }\r\n   if (typeA === \"string\" || typeA === \"boolean\") {\r\n   return Kotlin.primitiveCompareTo(a, b);\r\n   }\r\n   return a.compareTo_11rb$(b);\r\n};\r\n\r\n\r\nKotlin.primitiveCompareTo = function (a, b) {\r\n   return a < b ? -1 : a > b ? 1 : 0;\r\n};\r\n\r\n\r\nKotlin.doubleCompareTo = function (a, b) {\r\n   if (a < b) return -1;\r\n   if (a > b) return 1;\r\n\r\n   if (a === b) {\r\n   if (a !== 0) return 0;\r\n\r\n   var ia = 1 / a;\r\n   return ia === 1 / b ? 0 : (ia < 0 ? -1 : 1);\r\n   }\r\n\r\n   return a !== a ? (b !== b ? 0 : 1) : -1\r\n};\r\n\r\n\r\nKotlin.charInc = function (value) {\r\n   return Kotlin.toChar(value+1);\r\n};\r\n\r\n\r\nKotlin.charDec = function (value) {\r\n   return Kotlin.toChar(value-1);\r\n};\r\n\r\n\r\nKotlin.imul = Math.imul || imul;\r\n\r\n\r\nKotlin.imulEmulated = imul;\r\n\r\n\r\nfunction imul(a, b) {\r\n   return ((a & 0xffff0000) * (b & 0xffff) + (a & 0xffff) * (b | 0)) | 0;\r\n}\r\n\r\n\r\n(function() {\r\n   var buf = new ArrayBuffer(8);\r\n   var bufFloat64 = new Float64Array(buf);\r\n   var bufFloat32 = new Float32Array(buf);\r\n   var bufInt32 = new Int32Array(buf);\r\n   var lowIndex = 0;\r\n   var highIndex = 1;\r\n\r\n\r\n   bufFloat64[0] = -1; // bff00000_00000000\r\n   if (bufInt32[lowIndex] !== 0) {\r\n   lowIndex = 1;\r\n   highIndex = 0;\r\n   }\r\n\r\n\r\n   Kotlin.doubleToBits = function(value) {\r\n   return Kotlin.doubleToRawBits(isNaN(value) ? NaN : value);\r\n   };\r\n\r\n\r\n   Kotlin.doubleToRawBits = function(value) {\r\n   bufFloat64[0] = value;\r\n   return Kotlin.Long.fromBits(bufInt32[lowIndex], bufInt32[highIndex]);\r\n   };\r\n\r\n\r\n   Kotlin.doubleFromBits = function(value) {\r\n   bufInt32[lowIndex] = value.low_;\r\n   bufInt32[highIndex] = value.high_;\r\n   return bufFloat64[0];\r\n   };\r\n\r\n\r\n   Kotlin.floatToBits = function(value) {\r\n   return Kotlin.floatToRawBits(isNaN(value) ? NaN : value);\r\n   };\r\n\r\n\r\n   Kotlin.floatToRawBits = function(value) {\r\n   bufFloat32[0] = value;\r\n   return bufInt32[0];\r\n   };\r\n\r\n\r\n   Kotlin.floatFromBits = function(value) {\r\n   bufInt32[0] = value;\r\n   return bufFloat32[0];\r\n   };\r\n\r\n\r\n   // returns zero value for number with positive sign bit and non-zero value for number with negative sign bit.\r\n   Kotlin.doubleSignBit = function(value) {\r\n   bufFloat64[0] = value;\r\n   return bufInt32[highIndex] & 0x80000000;\r\n   };\r\n\r\n\r\n   Kotlin.numberHashCode

= function(obj) {\r\n if ((obj | 0) === obj) {\r\n return obj | 0;\r\n }\r\n else {\r\n bufFloat64[0] = obj;\r\n return (bufInt32[highIndex] * 31 | 0) + bufInt32[lowIndex] | 0;\r\n }\r\n }\r\n})();\r\n\r\nKotlin.ensureNotNull = function(x) {\r\n return x != null ? x : Kotlin.throwNPE();\r\n};\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\nif (typeof String.prototype.startsWith === \"undefined\") {\r\n String.prototype.startsWith = function(searchString, position) {\r\n position = position || 0;\r\n return this.lastIndexOf(searchString, position) === position;\r\n };\r\n}\r\nif (typeof String.prototype.endsWith === \"undefined\") {\r\n String.prototype.endsWith = function(searchString, position) {\r\n var subjectString = this.toString();\r\n if (position === undefined || position > subjectString.length) {\r\n position = subjectString.length;\r\n }\r\n position -= searchString.length;\r\n var lastIndex = subjectString.indexOf(searchString, position);\r\n return lastIndex !== -1 && lastIndex === position;\r\n };\r\n}\r\n// ES6 Math polyfills\r\nif (typeof Math.sign === \"undefined\") {\r\n Math.sign = function(x) {\r\n x = +x; // convert to a number\r\n if (x === 0 || isNaN(x)) {\r\n return Number(x);\r\n }\r\n return x > 0 ? 1 : -1;\r\n };\r\n}\r\nif (typeof Math.trunc === \"undefined\") {\r\n Math.trunc = function(x) {\r\n if (isNaN(x)) {\r\n return NaN;\r\n }\r\n if (x > 0) {\r\n return Math.floor(x);\r\n }\r\n return Math.ceil(x);\r\n };\r\n}\r\n\r\n(function() {\r\n var epsilon = 2.220446049250313E-16;\r\n var taylor_2_bound = Math.sqrt(epsilon);\r\n var taylor_n_bound = Math.sqrt(taylor_2_bound);\r\n var upper_taylor_2_bound = 1/taylor_2_bound;\r\n var upper_taylor_n_bound = 1/taylor_n_bound;\r\n\r\n if (typeof Math.sinh === \"undefined\") {\r\n Math.sinh = function(x) {\r\n if (Math.abs(x) < taylor_n_bound) {\r\n var result = x;\r\n if (Math.abs(x) > taylor_2_bound) {\r\n result += (x * x * x) / 6;\r\n }\r\n return result;\r\n } else {\r\n var y = Math.exp(x);\r\n var y1 = 1 / y;\r\n if (!isFinite(y)) return Math.exp(x - Math.LN2);\r\n if (!isFinite(y1)) return -Math.exp(-x - Math.LN2);\r\n return (y - y1) / 2;\r\n }\r\n };\r\n }\r\n if (typeof Math.cosh === \"undefined\") {\r\n Math.cosh = function(x) {\r\n var y = Math.exp(x);\r\n var y1 = 1 / y;\r\n if (!isFinite(y) || !isFinite(y1)) return Math.exp(Math.abs(x) - Math.LN2);\r\n return (y + y1) / 2;\r\n };\r\n }\r\n\r\n if (typeof Math.tanh === \"undefined\") {\r\n Math.tanh = function(x){\r\n if (Math.abs(x) < taylor_n_bound) {\r\n var result = x;\r\n if (Math.abs(x) > taylor_2_bound) {\r\n result -= (x * x * x) / 3;\r\n }\r\n return result;\r\n }\r\n else {\r\n var a = Math.exp(+x), b = Math.exp(-x);\r\n return a === Infinity ? 1 : b === Infinity ? -1 : (a - b) / (a + b);\r\n }\r\n };\r\n }\r\n\r\n // Inverse hyperbolic function implementations derived from boost special math functions,\r\n // Copyright Eric Ford & Hubert Holin 2001.\r\n\r\n if (typeof Math.asinh === \"undefined\") {\r\n var asinh = function(x) {\r\n if (x >= +taylor_n_bound)\r\n {\r\n if (x > upper_taylor_n_bound)\r\n {\r\n if (x > upper_taylor_2_bound)\r\n {\r\n // approximation by laurent series in 1/x at 0+ order from -1 to 0\r\n return Math.log(x) + Math.LN2;\r\n }\r\n else\r\n {\r\n // approximation by laurent series in 1/x at 0+ order from -1 to 1\r\n return Math.log(x * 2 + (1 / (x * 2)));\r\n }\r\n }\r\n else\r\n {\r\n return Math.log(x + Math.sqrt(x * x + 1));\r\n }\r\n }\r\n else if (x <= -taylor_n_bound)\r\n {\r\n return -asinh(-x);\r\n }\r\n else\r\n {\r\n // approximation by taylor series in x at 0 up to order 2\r\n var result = x;\r\n if (Math.abs(x) >= taylor_2_bound)\r\n {\r\n var x3 = x * x * x;\r\n // approximation by taylor series in x at 0 up to order 4\r\n result -= x3 / 6;\r\n }\r\n return result;\r\n }\r\n };\r\n Math.asinh = asinh;\r\n }\r\n if (typeof Math.acosh === \"undefined\") {\r\n Math.acosh = function(x) {\r\n if (x < 1)\r\n {\r\n return NaN;\r\n }\r\n else if (x - 1 >= taylor_n_bound)\r\n {\r\n if (x > upper_taylor_2_bound)\r\n {\r\n // approximation by laurent series in 1/x at 0+ order from -1 to 0\r\n return Math.log(x) + Math.LN2;\r\n }\r\n else\r\n {\r\n return Math.log(x + Math.sqrt(x * x - 1));\r\n }\r\n }\r\n else\r\n {\r\n var y = Math.sqrt(x - 1);\r\n //

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approximation by taylor series in y at 0 up to order 2\r\n            var result = y;\r\n            if (y >= taylor_2_bound)\r\n            {\r\n                var y3 = y * y * y;\r\n                // approximation by taylor series in y at 0 up to order 4\r\n                result -= y3 / 12;\r\n            }\r\n\r\n            return Math.sqrt(2) * result;\r\n        }\r\n    };\r\n}\r\nif (typeof Math.atanh === \"undefined\") {\r\n    Math.atanh = function(x) {\r\n        if (Math.abs(x) < taylor_n_bound) {\r\n            var result = x;\r\n            if (Math.abs(x) > taylor_2_bound) {\r\n                result += (x * x * x) / 3;\r\n            }\r\n            return result;\r\n        }\r\n        return Math.log((1 + x) / (1 - x)) / 2;\r\n    };\r\n}\r\nif (typeof Math.log1p === \"undefined\") {\r\n    Math.log1p = function(x) {\r\n        if (Math.abs(x) < taylor_n_bound) {\r\n            var x2 = x * x;\r\n            var x3 = x2 * x;\r\n            var x4 = x3 * x;\r\n            // approximation by taylor series in x at 0 up to order 4\r\n            return (-x4 / 4 + x3 / 3 - x2 / 2 + x);\r\n        }\r\n        return Math.log(x + 1);\r\n    };\r\n}\r\nif (typeof Math.expm1 === \"undefined\") {\r\n    Math.expm1 = function(x) {\r\n        if (Math.abs(x) < taylor_n_bound) {\r\n            var x2 = x * x;\r\n            var x3 = x2 * x;\r\n            var x4 = x3 * x;\r\n            // approximation by taylor series in x at 0 up to order 4\r\n            return (x4 / 24 + x3 / 6 + x2 / 2 + x);\r\n        }\r\n        return Math.exp(x) - 1;\r\n    };\r\n}\r\n})();\r\nif (typeof Math.hypot === \"undefined\") {\r\n    Math.hypot = function() {\r\n        var y = 0;\r\n        var length = arguments.length;\r\n\r\n        for (var i = 0; i < length; i++) {\r\n            if (arguments[i] === Infinity || arguments[i] === -Infinity) {\r\n                return Infinity;\r\n            }\r\n            y += arguments[i] * arguments[i];\r\n        }\r\n        return Math.sqrt(y);\r\n    };\r\n}\r\nif (typeof Math.log10 === \"undefined\") {\r\n    Math.log10 = function(x) {\r\n        return Math.log(x) * Math.LOG10E;\r\n    };\r\n}\r\nif (typeof Math.log2 === \"undefined\") {\r\n    Math.log2 = function(x) {\r\n        return Math.log(x) * Math.LOG2E;\r\n    };\r\n}\r\nif (typeof Math.clz32 === \"undefined\") {\r\n    Math.clz32 = (function(log, LN2) {\r\n        return function(x) {\r\n            var asUint = x >>> 0;\r\n            if (asUint === 0) {\r\n                return 32;\r\n            }\r\n            return 31 - (log(asUint) / LN2 | 0) | 0; // the \"| 0\" acts like math.floor\r\n        };\r\n    })(Math.log, Math.LN2);\r\n}\r\n\r\n\r\n// For HtmlUnit and PhantomJs\r\nif (typeof ArrayBuffer.isView === \"undefined\") {\r\n    ArrayBuffer.isView = function(a) {\r\n        return a != null && a.__proto__ != null && a.__proto__.__proto__ === Int8Array.prototype.__proto__;\r\n    };\r\n}\r\n\r\n\r\nif (typeof Array.prototype.fill === \"undefined\") {\r\n    // Polyfill from https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array/fill#Polyfill\r\n    Array.prototype.fill = function() {\r\n        // Steps 1-2.\r\n        if (this == null) {\r\n            throw new TypeError('this is null or not defined');\r\n        }\r\n\r\n        var O = Object(this);\r\n\r\n        // Steps 3-5.\r\n        var len = O.length >>> 0;\r\n\r\n        // Steps 6-7.\r\n        var start = arguments[1];\r\n        var relativeStart = start >> 0;\r\n\r\n        // Step 8.\r\n        var k = relativeStart < 0 ?\r\n            Math.max(len + relativeStart, 0) :\r\n            Math.min(relativeStart, len);\r\n\r\n        // Steps 9-10.\r\n        var end = arguments[2];\r\n        var relativeEnd = end === undefined ?\r\n            len : end >> 0;\r\n\r\n        // Step 11.\r\n        var final = relativeEnd < 0 ?\r\n            Math.max(len + relativeEnd, 0) :\r\n            Math.min(relativeEnd, len);\r\n\r\n        // Step 12.\r\n        while (k < final) {\r\n            O[k] = value;\r\n            k++;\r\n        }\r\n\r\n        // Step 13.\r\n        return O;\r\n    };\r\n}\r\n\r\n\r\n(function() {\r\n    function normalizeOffset(offset, length) {\r\n        if (offset < 0) return Math.max(0, offset + length);\r\n        return Math.min(offset, length);\r\n    }\r\n    function typedArraySlice(begin, end) {\r\n        if (typeof end === \"undefined\") {\r\n            end = this.length;\r\n        }\r\n        begin = normalizeOffset(begin || 0, this.length);\r\n        end = Math.max(begin, normalizeOffset(end, this.length));\r\n        return new this.constructor(this.subarray(begin, end));\r\n    }\r\n\r\n\r\n    var arrays = [Int8Array, Int16Array, Uint16Array, Int32Array, Float32Array, Float64Array];\r\n    for (var i = 0; i < arrays.length; ++i) {\r\n        var TypedArray = arrays[i];\r\n        if (typeof TypedArray.prototype.fill === \"undefined\") {\r\n            TypedArray.prototype.fill = Array.prototype.fill;\r\n        }\r\n        if (typeof TypedArray.prototype.slice === \"undefined\") {\r\n            Object.defineProperty(TypedArray.prototype, 'slice', {\r\n                value: typedArraySlice\r\n            });\r\n        }\r\n    }\r\n\r\n\r\n    // Patch apply to work with TypedArrays if needed.\r\n    try {\r\n        (function() {}).apply(null, new Int32Array(0))\r\n    } catch (e) {\r\n        var apply = Function.prototype.apply;\r\n        Object.defineProperty(Function.prototype, 'apply', {\r\n            value: function(self, array) {\r\n                return apply.call(this, self, [].slice.call(array));\r\n            }\r\n        });\r\n    }\r\n\r\n\r\n\r\n    // Patch map to work with TypedArrays if needed.\r\n    for (var i = 0; i < arrays.length; ++i) {\r\n
```

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var TypedArray = arrays[i];\r\n        if (typeof TypedArray.prototype.map === \"undefined\") {\r\n
Object.defineProperty(TypedArray.prototype, 'map', {\r\n                value: function(callback, self) {\r\n
return [].slice.call(this).map(callback, self);\r\n                }\r\n            });\r\n        }\r\n    }\r\n\r\n    // Patch sort to
work with TypedArrays if needed.\r\n    // TODO: consider to remove following function and replace it with
`Kotlin.doubleCompareTo` (see misc.js)\r\n    var totalOrderComparator = function (a, b) {\r\n        if (a < b) return -
1;\r\n        if (a > b) return 1;\r\n\r\n        if (a === b) {\r\n            if (a !== 0) return 0;\r\n\r\n            var ia = 1 / a;\r\n
        return ia === 1 / b ? 0 : (ia < 0 ? -1 : 1);\r\n        }\r\n\r\n        return a !== a ? (b !== b ? 0 : 1) : -1\r\n
};\r\n\r\n    for (var i = 0; i < arrays.length; ++i) {\r\n        var TypedArray = arrays[i];\r\n        if (typeof
TypedArray.prototype.sort === \"undefined\") {\r\n            Object.defineProperty(TypedArray.prototype, 'sort', {\r\n
            value: function(compareFunction) {\r\n                return Array.prototype.sort.call(this, compareFunction ||
totalOrderComparator);\r\n                }\r\n            });\r\n        }\r\n    }\r\n})();\r\n","/*\r\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors. \r\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\nKotlin.Kind = {\r\n    CLASS:
\"class\",\r\n    INTERFACE: \"interface\",\r\n    OBJECT: \"object\"\r\n};\r\n\r\nKotlin.callGetter = function
(thisObject, klass, propertyName) {\r\n    var propertyDescriptor = Object.getOwnPropertyDescriptor(klass,
propertyName);\r\n    if (propertyDescriptor != null && propertyDescriptor.get != null) {\r\n        return
propertyDescriptor.get.call(thisObject);\r\n    }\r\n\r\n    propertyDescriptor =
Object.getOwnPropertyDescriptor(thisObject, propertyName);\r\n    if (propertyDescriptor != null && \"value\" in
propertyDescriptor) {\r\n        return thisObject[propertyName];\r\n    }\r\n\r\n    return Kotlin.callGetter(thisObject,
Object.getPrototypeOf(klass), propertyName);\r\n};\r\n\r\nKotlin.callSetter = function (thisObject, klass,
propertyName, value) {\r\n    var propertyDescriptor = Object.getOwnPropertyDescriptor(klass, propertyName);\r\n
 if (propertyDescriptor != null && propertyDescriptor.set != null) {\r\n        propertyDescriptor.set.call(thisObject,
value);\r\n        return;\r\n    }\r\n\r\n    propertyDescriptor = Object.getOwnPropertyDescriptor(thisObject,
propertyName);\r\n    if (propertyDescriptor != null && \"value\" in propertyDescriptor) {\r\n
thisObject[propertyName] = value;\r\n        return\r\n    }\r\n\r\n    Kotlin.callSetter(thisObject,
Object.getPrototypeOf(klass), propertyName, value);\r\n};\r\n\r\nfunction isInheritanceFromInterface(ctor, iface)
{\r\n    if (ctor === iface) return true;\r\n\r\n    var metadata = ctor.$metadata$;\r\n    if (metadata != null) {\r\n
var interfaces = metadata.interfaces;\r\n        for (var i = 0; i < interfaces.length; i++) {\r\n            if
(isInheritanceFromInterface(interfaces[i], iface)) {\r\n                return true;\r\n            }\r\n        }\r\n    }\r\n\r\n    var
superPrototype = ctor.prototype != null ? Object.getPrototypeOf(ctor.prototype) : null;\r\n    var superConstructor =
superPrototype != null ? superPrototype.constructor : null;\r\n    return superConstructor != null &&
isInheritanceFromInterface(superConstructor, iface);\r\n}\r\n\r\n/**\r\n *\r\n * @param {*} object\r\n * @param
{Function|Object} klass\r\n * @returns {Boolean}\r\n */\r\nKotlin.isType = function (object, klass) {\r\n    if (klass
=== Object) {\r\n        switch (typeof object) {\r\n            case \"string\":\r\n            case \"number\":\r\n            case
\"boolean\":\r\n            case \"function\":\r\n                return true;\r\n            default:\r\n                return object
instanceof Object;\r\n        }\r\n    }\r\n\r\n    if (object == null || klass == null || (typeof object !== 'object' && typeof
object !== 'function')) {\r\n        return false;\r\n    }\r\n\r\n    if (typeof klass === \"function\" && object instanceof
klass) {\r\n        return true;\r\n    }\r\n\r\n    var proto = Object.getPrototypeOf(klass);\r\n    var constructor = proto
!= null ? proto.constructor : null;\r\n    if (constructor != null && \"$metadata$\" in constructor) {\r\n        var
metadata = constructor.$metadata$;\r\n        if (metadata.kind === Kotlin.Kind.OBJECT) {\r\n            return object
=== klass;\r\n        }\r\n    }\r\n\r\n    var klassMetadata = klass.$metadata$;\r\n\r\n    // In WebKit (JavaScriptCore)
for some interfaces from DOM typeof returns \"object\", nevertheless they can be used in RHS of instanceof\r\n    if
(klassMetadata == null) {\r\n        return object instanceof klass;\r\n    }\r\n\r\n    if (klassMetadata.kind ===
Kotlin.Kind.INTERFACE && object.constructor != null) {\r\n        return
isInheritanceFromInterface(object.constructor, klass);\r\n    }\r\n\r\n    return false;\r\n};\r\n\r\nKotlin.isNumber =
function (a) {\r\n    return typeof a == \"number\" || a instanceof Kotlin.Long;\r\n};\r\n\r\nKotlin.isChar = function
(value) {\r\n    return value instanceof Kotlin.BoxedChar\r\n};\r\n\r\nKotlin.isComparable = function (value) {\r\n
var type = typeof value;\r\n\r\n    return type === \"string\" ||\r\n           type === \"boolean\" ||\r\n
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Kotlin.isNumber(value) ||\r\n Kotlin.isType(value, Kotlin.kotlin.Comparable);\r\n};\r\n\r\nKotlin.isCharSequence = function (value) {\r\n return typeof value === \"string\" || Kotlin.isType(value, Kotlin.kotlin.CharSequence);\r\n};",null,"/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin\r\n\r\npublic class Enum<T : Enum<T>> : Comparable<Enum<T>> {\r\n @JsName(\"name$\") private var _name: String = \"\"\r\n @JsName(\"ordinal$\") private var _ordinal: Int = 0\r\n\r\n val name: String\r\n get() = _name\r\n\r\n val ordinal: Int\r\n get() = _ordinal\r\n\r\n override fun compareTo(other: Enum<T>) = ordinal.compareTo(other.ordinal)\r\n\r\n override fun equals(other: Any?) = this === other\r\n\r\n override fun hashCode(): Int = js(\"Kotlin.identityHashCode\")(this)\r\n\r\n override fun toString() = name\r\n\r\n companion object\r\n}",null,"/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"ArraysKt\")\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns 1st *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component1(): T {\n return get(0)\n}\n\n/**\n * Returns 1st *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component1(): Byte {\n return get(0)\n}\n\n/**\n * Returns 1st *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component1(): Short {\n return get(0)\n}\n\n/**\n * Returns 1st *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component1(): Int {\n return get(0)\n}\n\n/**\n * Returns 1st *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component1(): Long {\n return get(0)\n}\n\n/**\n * Returns 1st *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component1(): Float {\n return get(0)\n}\n\n/**\n * Returns 1st *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component1(): Double {\n return get(0)\n}\n\n/**\n * Returns 1st *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component1(): Boolean {\n return get(0)\n}\n\n/**\n * Returns 1st *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component1(): Char {\n return get(0)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component2(): T {\n return get(1)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component2(): Byte {\n return get(1)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component2(): Short {\n return get(1)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component2(): Int {\n return get(1)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component2(): Long {\n return get(1)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component2(): Float {\n return get(1)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component2(): Double {\n return get(1)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component2(): Boolean {\n return get(1)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component2(): Char {\n return get(1)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component3(): T {\n return get(2)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component3(): Byte {\n return get(2)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component3(): Short {\n

return get(2)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component3(): Int {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component3(): Long {\n return get(2)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component3(): Float {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component3(): Double {\n return get(2)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component3(): Boolean {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component3(): Char {\n   return get(2)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component4(): T {\n   return get(3)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component4(): Byte {\n   return get(3)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component4(): Short {\n return get(3)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component4(): Int {\n   return get(3)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component4(): Long {\n return get(3)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component4(): Float {\n   return get(3)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component4(): Double {\n return get(3)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component4(): Boolean {\n   return get(3)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component4(): Char {\n   return get(3)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component5(): T {\n   return get(4)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component5(): Byte {\n   return get(4)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component5(): Short {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component5(): Int {\n   return get(4)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component5(): Long {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component5(): Float {\n   return get(4)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component5(): Double {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component5(): Boolean {\n   return get(4)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component5(): Char {\n   return get(4)\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun <@kotlin.internal.OnlyInputTypes T> Array<out T>.contains(element: T): Boolean {\n   return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun ByteArray.contains(element: Byte): Boolean {\n   return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun ShortArray.contains(element: Short): Boolean {\n   return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun IntArray.contains(element: Int): Boolean {\n   return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun LongArray.contains(element: Long): Boolean {\n   return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun FloatArray.contains(element: Float): Boolean {\n   return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun DoubleArray.contains(element: Double): Boolean {\n

return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun BooleanArray.contains(element: Boolean): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun CharArray.contains(element: Char): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun <T> Array<out T>.elementAt(index: Int): T\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun ByteArray.elementAt(index: Int): Byte\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun ShortArray.elementAt(index: Int): Short\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun IntArray.elementAt(index: Int): Int\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun LongArray.elementAt(index: Int): Long\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun FloatArray.elementAt(index: Int): Float\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun DoubleArray.elementAt(index: Int): Double\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun BooleanArray.elementAt(index: Int): Boolean\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun CharArray.elementAt(index: Int): Char\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Byte): Byte {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Short): Short {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Int): Int {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Long): Long {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample

samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Float): Float {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Double): Double {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Boolean): Boolean {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.elementAtOrNull(index: Int): T? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.elementAtOrNull(index: Int): Byte? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.elementAtOrNull(index: Int): Short? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.elementAtOrNull(index: Int): Int? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.elementAtOrNull(index: Int): Long? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.elementAtOrNull(index: Int): Float? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.elementAtOrNull(index: Int): Double? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.elementAtOrNull(index: Int): Boolean? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.elementAtOrNull(index: Int): Char? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.find(predicate: (T) -> Boolean): T? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.find(predicate: (Byte) -> Boolean): Byte? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun

ShortArray.find(predicate: (Short) -> Boolean): Short? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.find(predicate: (Int) -> Boolean): Int? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.find(predicate: (Long) -> Boolean): Long? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.find(predicate: (Float) -> Boolean): Float? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.find(predicate: (Double) -> Boolean): Double? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.find(predicate: (Boolean) -> Boolean): Boolean? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.find(predicate: (Char) -> Boolean): Char? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.findLast(predicate: (T) -> Boolean): T? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.findLast(predicate: (Byte) -> Boolean): Byte? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.findLast(predicate: (Short) -> Boolean): Short? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.findLast(predicate: (Int) -> Boolean): Int? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.findLast(predicate: (Long) -> Boolean): Long? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.findLast(predicate: (Float) -> Boolean): Float? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.findLast(predicate: (Double) -> Boolean): Double? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.findLast(predicate: (Boolean) -> Boolean): Boolean? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.findLast(predicate: (Char) -> Boolean): Char? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun <T> Array<out T>.first(): T {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun ByteArray.first(): Byte {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun ShortArray.first(): Short {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun IntArray.first(): Int {\n   if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n   return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun LongArray.first(): Long {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun FloatArray.first(): Float

{\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun DoubleArray.first(): Double {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun BooleanArray.first(): Boolean {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun CharArray.first(): Char {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun <T> Array<out T>.first(predicate: (T) -> Boolean): T {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun ByteArray.first(predicate: (Byte) -> Boolean): Byte {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun ShortArray.first(predicate: (Short) -> Boolean): Short {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun IntArray.first(predicate: (Int) -> Boolean): Int {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun LongArray.first(predicate: (Long) -> Boolean): Long {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun FloatArray.first(predicate: (Float) -> Boolean): Float {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun DoubleArray.first(predicate: (Double) -> Boolean): Double {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun BooleanArray.first(predicate: (Boolean) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun CharArray.first(predicate: (Char) -> Boolean): Char {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun <T> Array<out T>.firstOrNull(): T? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun ByteArray.firstOrNull(): Byte? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun ShortArray.firstOrNull(): Short? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun IntArray.firstOrNull(): Int? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun LongArray.firstOrNull(): Long? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun FloatArray.firstOrNull(): Float? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n

*/\npublic fun DoubleArray.firstOrNull(): Double? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun BooleanArray.firstOrNull(): Boolean? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun CharArray.firstOrNull(): Char? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun <T> Array<out T>.firstOrNull(predicate: (T) -> Boolean): T? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun ByteArray.firstOrNull(predicate: (Byte) -> Boolean): Byte? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun ShortArray.firstOrNull(predicate: (Short) -> Boolean): Short? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun IntArray.firstOrNull(predicate: (Int) -> Boolean): Int? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun LongArray.firstOrNull(predicate: (Long) -> Boolean): Long? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun FloatArray.firstOrNull(predicate: (Float) -> Boolean): Float? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun DoubleArray.firstOrNull(predicate: (Double) -> Boolean): Double? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun BooleanArray.firstOrNull(predicate: (Boolean) -> Boolean): Boolean? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun CharArray.firstOrNull(predicate: (Char) -> Boolean): Char? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.getOrElse(index: Int, defaultValue: (Int) -> T): T {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.getOrElse(index: Int, defaultValue: (Int) -> Byte): Byte {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.getOrElse(index: Int, defaultValue: (Int) -> Short): Short {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.getOrElse(index: Int, defaultValue: (Int) -> Int): Int {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.getOrElse(index: Int, defaultValue: (Int) -> Long): Long {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.getOrElse(index: Int, defaultValue: (Int) -> Float): Float {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.getOrElse(index: Int, defaultValue: (Int) ->

Double): Double {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.getOrElse(index: Int, defaultValue: (Int) -> Boolean): Boolean {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.getOrElse(index: Int, defaultValue: (Int) -> Char): Char {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\npublic fun <T> Array<out T>.getOrNull(index: Int): T? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\npublic fun ByteArray.getOrNull(index: Int): Byte? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\npublic fun ShortArray.getOrNull(index: Int): Short? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\npublic fun IntArray.getOrNull(index: Int): Int? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\npublic fun LongArray.getOrNull(index: Int): Long? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\npublic fun FloatArray.getOrNull(index: Int): Float? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\npublic fun DoubleArray.getOrNull(index: Int): Double? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\npublic fun BooleanArray.getOrNull(index: Int): Boolean? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\npublic fun CharArray.getOrNull(index: Int): Char? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Array<out T>.indexOf(element: T): Int {\n if (element == null) {\n for (index in indices) {\n if (this[index] == null) {\n return index\n }\n }\n } else {\n for (index in indices) {\n if (element == this[index]) {\n return index\n }\n }\n }\n return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun ByteArray.indexOf(element: Byte): Int {\n for (index in indices) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun ShortArray.indexOf(element: Short): Int {\n for (index in indices) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun IntArray.indexOf(element: Int): Int {\n for (index in indices) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun LongArray.indexOf(element: Long): Int {\n for (index in indices) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun FloatArray.indexOf(element: Float): Int {\n for (index in indices) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun DoubleArray.indexOf(element: Double): Int {\n for (index in indices) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun BooleanArray.indexOf(element: Boolean): Int {\n for (index in indices) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun CharArray.indexOf(element: Char): Int {\n for (index in indices) {\n if

(element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun <T> Array<out T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n for (index in indices) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun ByteArray.indexOfFirst(predicate: (Byte) -> Boolean): Int {\n for (index in indices) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun ShortArray.indexOfFirst(predicate: (Short) -> Boolean): Int {\n for (index in indices) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun IntArray.indexOfFirst(predicate: (Int) -> Boolean): Int {\n for (index in indices) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun LongArray.indexOfFirst(predicate: (Long) -> Boolean): Int {\n for (index in indices) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun FloatArray.indexOfFirst(predicate: (Float) -> Boolean): Int {\n for (index in indices) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun DoubleArray.indexOfFirst(predicate: (Double) -> Boolean): Int {\n for (index in indices) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun BooleanArray.indexOfFirst(predicate: (Boolean) -> Boolean): Int {\n for (index in indices) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun CharArray.indexOfFirst(predicate: (Char) -> Boolean): Int {\n for (index in indices) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun <T> Array<out T>.indexOfLast(predicate: (T) -> Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun ByteArray.indexOfLast(predicate: (Byte) -> Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun ShortArray.indexOfLast(predicate: (Short) -> Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun IntArray.indexOfLast(predicate: (Int) -> Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun LongArray.indexOfLast(predicate: (Long) -> Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun FloatArray.indexOfLast(predicate: (Float) -> Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun DoubleArray.indexOfLast(predicate: (Double) -> Boolean): Int {\n for (index in indices.reversed()) {\n if

(predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun BooleanArray.indexOfLast(predicate: (Boolean) -> Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun CharArray.indexOfLast(predicate: (Char) -> Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun <T> Array<out T>.last(): T {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun ByteArray.last(): Byte {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun ShortArray.last(): Short {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun IntArray.last(): Int {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun LongArray.last(): Long {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun FloatArray.last(): Float {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun DoubleArray.last(): Double {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun BooleanArray.last(): Boolean {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun CharArray.last(): Char {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun <T> Array<out T>.last(predicate: (T) -> Boolean): T {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun ByteArray.last(predicate: (Byte) -> Boolean): Byte {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun ShortArray.last(predicate: (Short) -> Boolean): Short {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun IntArray.last(predicate: (Int) -> Boolean): Int {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun LongArray.last(predicate: (Long) -> Boolean): Long {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws

[NoSuchElementException] if no such element is found.\n */\npublic inline fun FloatArray.last(predicate: (Float) -> Boolean): Float {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun DoubleArray.last(predicate: (Double) -> Boolean): Double {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun BooleanArray.last(predicate: (Boolean) -> Boolean): Boolean {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun CharArray.last(predicate: (Char) -> Boolean): Char {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Array<out T>.lastIndexOf(element: T): Int {\n   if (element == null) {\n   for (index in indices.reversed()) {\n   if (this[index] == null) {\n   return index\n   }\n   }\n   } else {\n   for (index in indices.reversed()) {\n   if (element == this[index]) {\n   return index\n   }\n   }\n   }\n   return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun ByteArray.lastIndexOf(element: Byte): Int {\n   for (index in indices.reversed()) {\n   if (element == this[index]) {\n   return index\n   }\n   }\n   return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun ShortArray.lastIndexOf(element: Short): Int {\n   for (index in indices.reversed()) {\n   if (element == this[index]) {\n   return index\n   }\n   }\n   return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun IntArray.lastIndexOf(element: Int): Int {\n   for (index in indices.reversed()) {\n   if (element == this[index]) {\n   return index\n   }\n   }\n   return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun LongArray.lastIndexOf(element: Long): Int {\n   for (index in indices.reversed()) {\n   if (element == this[index]) {\n   return index\n   }\n   }\n   return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun FloatArray.lastIndexOf(element: Float): Int {\n   for (index in indices.reversed()) {\n   if (element == this[index]) {\n   return index\n   }\n   }\n   return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun DoubleArray.lastIndexOf(element: Double): Int {\n   for (index in indices.reversed()) {\n   if (element == this[index]) {\n   return index\n   }\n   }\n   return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun BooleanArray.lastIndexOf(element: Boolean): Int {\n   for (index in indices.reversed()) {\n   if (element == this[index]) {\n   return index\n   }\n   }\n   return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun CharArray.lastIndexOf(element: Char): Int {\n   for (index in indices.reversed()) {\n   if (element == this[index]) {\n   return index\n   }\n   }\n   return -1\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\npublic fun <T> Array<out T>.lastOrNull(): T? {\n   return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\npublic fun ByteArray.lastOrNull(): Byte? {\n   return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\npublic fun ShortArray.lastOrNull(): Short? {\n   return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\npublic fun IntArray.lastOrNull(): Int? {\n   return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\npublic fun LongArray.lastOrNull(): Long? {\n   return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\npublic fun FloatArray.lastOrNull(): Float? {\n

return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\npublic fun DoubleArray.lastOrNull(): Double? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\npublic fun BooleanArray.lastOrNull(): Boolean? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\npublic fun CharArray.lastOrNull(): Char? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun <T> Array<out T>.lastOrNull(predicate: (T) -> Boolean): T? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun ByteArray.lastOrNull(predicate: (Byte) -> Boolean): Byte? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun ShortArray.lastOrNull(predicate: (Short) -> Boolean): Short? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun IntArray.lastOrNull(predicate: (Int) -> Boolean): Int? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun LongArray.lastOrNull(predicate: (Long) -> Boolean): Long? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun FloatArray.lastOrNull(predicate: (Float) -> Boolean): Float? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun DoubleArray.lastOrNull(predicate: (Double) -> Boolean): Double? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun BooleanArray.lastOrNull(predicate: (Boolean) -> Boolean): Boolean? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun CharArray.lastOrNull(predicate: (Char) -> Boolean): Char? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.random(): T {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.random(): Byte {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.random(): Short {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.random(): Int {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.random(): Long {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.random(): Float {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n

*/\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.random(): Double {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.random(): Boolean {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.random(): Char {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun <T> Array<out T>.random(random: Random): T {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun ByteArray.random(random: Random): Byte {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun ShortArray.random(random: Random): Short {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun IntArray.random(random: Random): Int {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun LongArray.random(random: Random): Long {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun FloatArray.random(random: Random): Float {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun DoubleArray.random(random: Random): Double {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun BooleanArray.random(random: Random): Boolean {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun CharArray.random(random: Random): Char {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun <T> Array<out T>.single(): T {\n return when (size) {\n 0 -> throw NoSuchElementException(\"Array is empty.\")\n 1 -> this[0]\n else -> throw IllegalArgumentException(\"Array has more than one element.\")\n }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun ByteArray.single(): Byte {\n return when (size) {\n 0 -> throw NoSuchElementException(\"Array is empty.\")\n 1 -> this[0]\n else -> throw IllegalArgumentException(\"Array has more than one element.\")\n }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun ShortArray.single(): Short {\n return when (size) {\n 0 -> throw NoSuchElementException(\"Array is empty.\")\n 1 -> this[0]\n else -> throw IllegalArgumentException(\"Array has more than one element.\")\n }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one

element.\n */\npublic fun IntArray.single(): Int {\n   return when (size) {\n   0 -> throw NoSuchElementException(\"Array is empty.\")\n   1 -> this[0]\n   else -> throw IllegalArgumentException(\"Array has more than one element.\")\n   }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun LongArray.single(): Long {\n   return when (size) {\n   0 -> throw NoSuchElementException(\"Array is empty.\")\n   1 -> this[0]\n   else -> throw IllegalArgumentException(\"Array has more than one element.\")\n   }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun FloatArray.single(): Float {\n   return when (size) {\n   0 -> throw NoSuchElementException(\"Array is empty.\")\n   1 -> this[0]\n   else -> throw IllegalArgumentException(\"Array has more than one element.\")\n   }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun DoubleArray.single(): Double {\n   return when (size) {\n   0 -> throw NoSuchElementException(\"Array is empty.\")\n   1 -> this[0]\n   else -> throw IllegalArgumentException(\"Array has more than one element.\")\n   }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun BooleanArray.single(): Boolean {\n   return when (size) {\n   0 -> throw NoSuchElementException(\"Array is empty.\")\n   1 -> this[0]\n   else -> throw IllegalArgumentException(\"Array has more than one element.\")\n   }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun CharArray.single(): Char {\n   return when (size) {\n   0 -> throw NoSuchElementException(\"Array is empty.\")\n   1 -> this[0]\n   else -> throw IllegalArgumentException(\"Array has more than one element.\")\n   }\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun <T> Array<out T>.single(predicate: (T) -> Boolean): T {\n   var single: T? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n   single = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as T\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun ByteArray.single(predicate: (Byte) -> Boolean): Byte {\n   var single: Byte? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n   single = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as Byte\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun ShortArray.single(predicate: (Short) -> Boolean): Short {\n   var single: Short? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n   single = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as Short\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun IntArray.single(predicate: (Int) -> Boolean): Int {\n   var single: Int? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n   single = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as Int\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun LongArray.single(predicate: (Long) -> Boolean): Long {\n   var single: Long? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n   single = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Array contains no element matching

the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as Long\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun FloatArray.single(predicate: (Float) -> Boolean): Float {\n   var single: Float? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n   single = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as Float\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun DoubleArray.single(predicate: (Double) -> Boolean): Double {\n   var single: Double? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n   single = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as Double\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun BooleanArray.single(predicate: (Boolean) -> Boolean): Boolean {\n   var single: Boolean? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n   single = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as Boolean\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun CharArray.single(predicate: (Char) -> Boolean): Char {\n   var single: Char? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n   single = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as Char\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun <T> Array<out T>.singleOrNull(): T? {\n   return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun ByteArray.singleOrNull(): Byte? {\n   return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun ShortArray.singleOrNull(): Short? {\n   return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun IntArray.singleOrNull(): Int? {\n   return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun LongArray.singleOrNull(): Long? {\n   return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun FloatArray.singleOrNull(): Float? {\n   return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun DoubleArray.singleOrNull(): Double? {\n   return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun BooleanArray.singleOrNull(): Boolean? {\n   return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun CharArray.singleOrNull(): Char? {\n   return if (size == 1) this[0] else null\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun <T> Array<out T>.singleOrNull(predicate: (T) -> Boolean): T? {\n   var single: T? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) return null\n   single = element\n   found = true\n   }\n   }\n   if (!found) return null\n   return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun ByteArray.singleOrNull(predicate: (Byte) -> Boolean): Byte? {\n   var single: Byte? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) return null\n   single = element\n

found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun ShortArray.singleOrNull(predicate: (Short) -> Boolean): Short? {\n var single: Short? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun IntArray.singleOrNull(predicate: (Int) -> Boolean): Int? {\n var single: Int? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun LongArray.singleOrNull(predicate: (Long) -> Boolean): Long? {\n var single: Long? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun FloatArray.singleOrNull(predicate: (Float) -> Boolean): Float? {\n var single: Float? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun DoubleArray.singleOrNull(predicate: (Double) -> Boolean): Double? {\n var single: Double? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun BooleanArray.singleOrNull(predicate: (Boolean) -> Boolean): Boolean? {\n var single: Boolean? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun CharArray.singleOrNull(predicate: (Char) -> Boolean): Char? {\n var single: Char? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Array<out T>.drop(n: Int): List<T> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun ByteArray.drop(n: Int): List<Byte> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun ShortArray.drop(n: Int): List<Short> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun IntArray.drop(n: Int): List<Int> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample

samples.collections.Collections.Transformations.drop\n */\npublic fun LongArray.drop(n: Int): List<Long> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun FloatArray.drop(n: Int): List<Float> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun DoubleArray.drop(n: Int): List<Double> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun BooleanArray.drop(n: Int): List<Boolean> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun CharArray.drop(n: Int): List<Char> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Array<out T>.dropLast(n: Int): List<T> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun ByteArray.dropLast(n: Int): List<Byte> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun ShortArray.dropLast(n: Int): List<Short> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun IntArray.dropLast(n: Int): List<Int> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun LongArray.dropLast(n: Int): List<Long> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun FloatArray.dropLast(n: Int): List<Float> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun DoubleArray.dropLast(n: Int): List<Double> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample

samples.collections.Collections.Transformations.drop\n */\npublic fun BooleanArray.dropLast(n: Int): List<Boolean> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun CharArray.dropLast(n: Int): List<Char> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun <T> Array<out T>.dropLastWhile(predicate: (T) -> Boolean): List<T> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun ByteArray.dropLastWhile(predicate: (Byte) -> Boolean): List<Byte> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun ShortArray.dropLastWhile(predicate: (Short) -> Boolean): List<Short> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun IntArray.dropLastWhile(predicate: (Int) -> Boolean): List<Int> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun LongArray.dropLastWhile(predicate: (Long) -> Boolean): List<Long> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun FloatArray.dropLastWhile(predicate: (Float) -> Boolean): List<Float> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun DoubleArray.dropLastWhile(predicate: (Double) -> Boolean): List<Double> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun BooleanArray.dropLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun CharArray.dropLastWhile(predicate: (Char) -> Boolean): List<Char> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun <T> Array<out T>.dropWhile(predicate: (T) -> Boolean): List<T> {\n var yielding = false\n val list = ArrayList<T>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic

inline fun ByteArray.dropWhile(predicate: (Byte) -> Boolean): List<Byte> {\n var yielding = false\n val list = ArrayList<Byte>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun ShortArray.dropWhile(predicate: (Short) -> Boolean): List<Short> {\n var yielding = false\n val list = ArrayList<Short>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun IntArray.dropWhile(predicate: (Int) -> Boolean): List<Int> {\n var yielding = false\n val list = ArrayList<Int>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun LongArray.dropWhile(predicate: (Long) -> Boolean): List<Long> {\n var yielding = false\n val list = ArrayList<Long>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun FloatArray.dropWhile(predicate: (Float) -> Boolean): List<Float> {\n var yielding = false\n val list = ArrayList<Float>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun DoubleArray.dropWhile(predicate: (Double) -> Boolean): List<Double> {\n var yielding = false\n val list = ArrayList<Double>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun BooleanArray.dropWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n var yielding = false\n val list = ArrayList<Boolean>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun CharArray.dropWhile(predicate: (Char) -> Boolean): List<Char> {\n var yielding = false\n val list = ArrayList<Char>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\npublic inline fun <T> Array<out T>.filter(predicate: (T) -> Boolean): List<T> {\n return filterTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\npublic inline fun ByteArray.filter(predicate: (Byte) -> Boolean): List<Byte> {\n return filterTo(ArrayList<Byte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\npublic inline fun ShortArray.filter(predicate: (Short) -> Boolean): List<Short> {\n return filterTo(ArrayList<Short>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\npublic inline fun IntArray.filter(predicate: (Int) -> Boolean): List<Int> {\n return filterTo(ArrayList<Int>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\npublic inline fun LongArray.filter(predicate: (Long) -> Boolean): List<Long> {\n return filterTo(ArrayList<Long>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\npublic inline fun FloatArray.filter(predicate: (Float) -> Boolean): List<Float> {\n return filterTo(ArrayList<Float>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\npublic inline fun DoubleArray.filter(predicate: (Double) -> Boolean): List<Double> {\n return

filterTo(ArrayList<Double>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\npublic inline fun BooleanArray.filter(predicate: (Boolean) -> Boolean): List<Boolean> {\n return filterTo(ArrayList<Boolean>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\npublic inline fun CharArray.filter(predicate: (Char) -> Boolean): List<Char> {\n return filterTo(ArrayList<Char>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <T> Array<out T>.filterIndexed(predicate: (index: Int, T) -> Boolean): List<T> {\n return filterIndexedTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun ByteArray.filterIndexed(predicate: (index: Int, Byte) -> Boolean): List<Byte> {\n return filterIndexedTo(ArrayList<Byte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun ShortArray.filterIndexed(predicate: (index: Int, Short) -> Boolean): List<Short> {\n return filterIndexedTo(ArrayList<Short>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun IntArray.filterIndexed(predicate: (index: Int, Int) -> Boolean): List<Int> {\n return filterIndexedTo(ArrayList<Int>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun LongArray.filterIndexed(predicate: (index: Int, Long) -> Boolean): List<Long> {\n return filterIndexedTo(ArrayList<Long>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun FloatArray.filterIndexed(predicate: (index: Int, Float) -> Boolean): List<Float> {\n return filterIndexedTo(ArrayList<Float>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun DoubleArray.filterIndexed(predicate: (index: Int, Double) -> Boolean): List<Double> {\n return filterIndexedTo(ArrayList<Double>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun BooleanArray.filterIndexed(predicate: (index: Int, Boolean) -> Boolean): List<Boolean> {\n return filterIndexedTo(ArrayList<Boolean>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun CharArray.filterIndexed(predicate: (index: Int, Char) -> Boolean): List<Char> {\n return filterIndexedTo(ArrayList<Char>(), predicate)\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <T, C : MutableCollection<in T>> Array<out T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <C : MutableCollection<in Byte>> ByteArray.filterIndexedTo(destination: C, predicate: (index: Int, Byte) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *

@param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <C : MutableCollection<in Short>> ShortArray.filterIndexedTo(destination: C, predicate: (index: Int, Short) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <C : MutableCollection<in Int>> IntArray.filterIndexedTo(destination: C, predicate: (index: Int, Int) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <C : MutableCollection<in Long>> LongArray.filterIndexedTo(destination: C, predicate: (index: Int, Long) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <C : MutableCollection<in Float>> FloatArray.filterIndexedTo(destination: C, predicate: (index: Int, Float) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <C : MutableCollection<in Double>> DoubleArray.filterIndexedTo(destination: C, predicate: (index: Int, Double) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <C : MutableCollection<in Boolean>> BooleanArray.filterIndexedTo(destination: C, predicate: (index: Int, Boolean) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <C : MutableCollection<in Char>> CharArray.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n   return destination\n}\n\n/**\n * Returns a list containing all elements that are instances of specified type parameter R.\n */\npublic inline fun <reified R> Array<*>.filterIsInstance(): List<@kotlin.internal.NoInfer R> {\n   return filterIsInstanceTo(ArrayList<R>())\n}\n\n/**\n * Appends all elements that are instances of specified type parameter R to the given [destination].\n */\npublic inline fun <reified R, C : MutableCollection<in R>> Array<*>.filterIsInstanceTo(destination: C): C {\n   for (element in this) if (element is R) destination.add(element)\n   return destination\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\npublic inline fun <T> Array<out T>.filterNot(predicate: (T) -> Boolean): List<T> {\n   return filterNotTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\npublic inline fun ByteArray.filterNot(predicate: (Byte) -> Boolean): List<Byte> {\n   return filterNotTo(ArrayList<Byte>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\npublic inline fun ShortArray.filterNot(predicate: (Short) -> Boolean): List<Short> {\n   return filterNotTo(ArrayList<Short>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\npublic inline fun IntArray.filterNot(predicate: (Int) -> Boolean): List<Int> {\n   return filterNotTo(ArrayList<Int>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\npublic inline fun LongArray.filterNot(predicate: (Long) -> Boolean): List<Long> {\n   return

filterNotTo(ArrayList<Long>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\npublic inline fun FloatArray.filterNot(predicate: (Float) -> Boolean): List<Float> {\n return filterNotTo(ArrayList<Float>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\npublic inline fun DoubleArray.filterNot(predicate: (Double) -> Boolean): List<Double> {\n return filterNotTo(ArrayList<Double>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\npublic inline fun BooleanArray.filterNot(predicate: (Boolean) -> Boolean): List<Boolean> {\n return filterNotTo(ArrayList<Boolean>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\npublic inline fun CharArray.filterNot(predicate: (Char) -> Boolean): List<Char> {\n return filterNotTo(ArrayList<Char>(), predicate)\n}\n\n/**\n * Returns a list containing all elements that are not `null`.\n */\npublic fun <T : Any> Array<out T?>.filterNotNull(): List<T> {\n return filterNotNullTo(ArrayList<T>())\n}\n\n/**\n * Appends all elements that are not `null` to the given [destination].\n */\npublic fun <C : MutableCollection<in T>, T : Any> Array<out T?>.filterNotNullTo(destination: C): C {\n for (element in this) if (element != null) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n */\npublic inline fun <T, C : MutableCollection<in T>> Array<out T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Byte>> ByteArray.filterNotTo(destination: C, predicate: (Byte) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Short>> ShortArray.filterNotTo(destination: C, predicate: (Short) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Int>> IntArray.filterNotTo(destination: C, predicate: (Int) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Long>> LongArray.filterNotTo(destination: C, predicate: (Long) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Float>> FloatArray.filterNotTo(destination: C, predicate: (Float) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Double>> DoubleArray.filterNotTo(destination: C, predicate: (Double) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Boolean>> BooleanArray.filterNotTo(destination: C, predicate: (Boolean) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Char>> CharArray.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n */\npublic inline fun <T, C : MutableCollection<in T>> Array<out T>.filterTo(destination: C, predicate: (T) -> Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Byte>> ByteArray.filterTo(destination: C, predicate: (Byte) -> Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Short>> ShortArray.filterTo(destination: C, predicate: (Short) -> Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return

destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Int>> IntArray.filterTo(destination: C, predicate: (Int) -> Boolean): C {\n   for (element in this) if (predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Long>> LongArray.filterTo(destination: C, predicate: (Long) -> Boolean): C {\n   for (element in this) if (predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Float>> FloatArray.filterTo(destination: C, predicate: (Float) -> Boolean): C {\n   for (element in this) if (predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Double>> DoubleArray.filterTo(destination: C, predicate: (Double) -> Boolean): C {\n   for (element in this) if (predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Boolean>> BooleanArray.filterTo(destination: C, predicate: (Boolean) -> Boolean): C {\n   for (element in this) if (predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Char>> CharArray.filterTo(destination: C, predicate: (Char) -> Boolean): C {\n   for (element in this) if (predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun <T> Array<out T>.slice(indices: IntRange): List<T> {\n   if (indices.isEmpty()) return listOf()\n   return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun ByteArray.slice(indices: IntRange): List<Byte> {\n   if (indices.isEmpty()) return listOf()\n   return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun ShortArray.slice(indices: IntRange): List<Short> {\n   if (indices.isEmpty()) return listOf()\n   return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun IntArray.slice(indices: IntRange): List<Int> {\n   if (indices.isEmpty()) return listOf()\n   return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun LongArray.slice(indices: IntRange): List<Long> {\n   if (indices.isEmpty()) return listOf()\n   return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun FloatArray.slice(indices: IntRange): List<Float> {\n   if (indices.isEmpty()) return listOf()\n   return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun DoubleArray.slice(indices: IntRange): List<Double> {\n   if (indices.isEmpty()) return listOf()\n   return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun BooleanArray.slice(indices: IntRange): List<Boolean> {\n   if (indices.isEmpty()) return listOf()\n   return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun CharArray.slice(indices: IntRange): List<Char> {\n   if (indices.isEmpty()) return listOf()\n   return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun <T> Array<out T>.slice(indices: Iterable<Int>): List<T> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<T>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun ByteArray.slice(indices: Iterable<Int>): List<Byte> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<Byte>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun ShortArray.slice(indices: Iterable<Int>): List<Short> {\n   val size = indices.collectionSizeOrDefault(10)\n   if

(size == 0) return emptyList()\n   val list = ArrayList<Short>(size)\n   for (index in indices) {\n list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun IntArray.slice(indices: Iterable<Int>): List<Int> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<Int>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun LongArray.slice(indices: Iterable<Int>): List<Long> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<Long>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun FloatArray.slice(indices: Iterable<Int>): List<Float> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<Float>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun DoubleArray.slice(indices: Iterable<Int>): List<Double> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<Double>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun BooleanArray.slice(indices: Iterable<Int>): List<Boolean> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<Boolean>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun CharArray.slice(indices: Iterable<Int>): List<Char> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<Char>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun <T> Array<T>.sliceArray(indices: Collection<Int>): Array<T> {\n   val result = arrayOfNulls(this, indices.size)\n   var targetIndex = 0\n   for (sourceIndex in indices) {\n   result[targetIndex++] = this[sourceIndex]\n   }\n   return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun ByteArray.sliceArray(indices: Collection<Int>): ByteArray {\n   val result = ByteArray(indices.size)\n   var targetIndex = 0\n   for (sourceIndex in indices) {\n   result[targetIndex++] = this[sourceIndex]\n   }\n   return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun ShortArray.sliceArray(indices: Collection<Int>): ShortArray {\n   val result = ShortArray(indices.size)\n   var targetIndex = 0\n   for (sourceIndex in indices) {\n   result[targetIndex++] = this[sourceIndex]\n   }\n   return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun IntArray.sliceArray(indices: Collection<Int>): IntArray {\n   val result = IntArray(indices.size)\n   var targetIndex = 0\n   for (sourceIndex in indices) {\n   result[targetIndex++] = this[sourceIndex]\n   }\n   return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun LongArray.sliceArray(indices: Collection<Int>): LongArray {\n   val result = LongArray(indices.size)\n   var targetIndex = 0\n   for (sourceIndex in indices) {\n   result[targetIndex++] = this[sourceIndex]\n   }\n   return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun FloatArray.sliceArray(indices: Collection<Int>): FloatArray {\n   val result = FloatArray(indices.size)\n   var targetIndex = 0\n   for (sourceIndex in indices) {\n   result[targetIndex++] = this[sourceIndex]\n   }\n   return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun DoubleArray.sliceArray(indices: Collection<Int>): DoubleArray {\n   val result = DoubleArray(indices.size)\n   var targetIndex = 0\n   for (sourceIndex in indices) {\n   result[targetIndex++] = this[sourceIndex]\n   }\n   return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun BooleanArray.sliceArray(indices: Collection<Int>): BooleanArray {\n   val result = BooleanArray(indices.size)\n   var targetIndex = 0\n   for (sourceIndex in indices) {\n   result[targetIndex++] = this[sourceIndex]\n   }\n   return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun CharArray.sliceArray(indices: Collection<Int>): CharArray {\n   val result = CharArray(indices.size)\n   var targetIndex = 0\n   for (sourceIndex in indices) {\n   result[targetIndex++] = this[sourceIndex]\n   }\n   return result\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun

<T> Array<T>.sliceArray(indices: IntRange): Array<T> {\n   if (indices.isEmpty()) return copyOfRange(0, 0)\n   return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun ByteArray.sliceArray(indices: IntRange): ByteArray {\n   if (indices.isEmpty()) return ByteArray(0)\n   return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun ShortArray.sliceArray(indices: IntRange): ShortArray {\n   if (indices.isEmpty()) return ShortArray(0)\n   return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun IntArray.sliceArray(indices: IntRange): IntArray {\n   if (indices.isEmpty()) return IntArray(0)\n   return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun LongArray.sliceArray(indices: IntRange): LongArray {\n   if (indices.isEmpty()) return LongArray(0)\n   return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun FloatArray.sliceArray(indices: IntRange): FloatArray {\n   if (indices.isEmpty()) return FloatArray(0)\n   return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun DoubleArray.sliceArray(indices: IntRange): DoubleArray {\n   if (indices.isEmpty()) return DoubleArray(0)\n   return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun BooleanArray.sliceArray(indices: IntRange): BooleanArray {\n   if (indices.isEmpty()) return BooleanArray(0)\n   return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun CharArray.sliceArray(indices: IntRange): CharArray {\n   if (indices.isEmpty()) return CharArray(0)\n   return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun <T> Array<out T>.take(n: Int): List<T> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<T>(n)\n   for (item in this) {\n   if (count++ == n)\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun ByteArray.take(n: Int): List<Byte> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<Byte>(n)\n   for (item in this) {\n   if (count++ == n)\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun ShortArray.take(n: Int): List<Short> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<Short>(n)\n   for (item in this) {\n   if (count++ == n)\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun IntArray.take(n: Int): List<Int> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<Int>(n)\n   for (item in this) {\n   if (count++ == n)\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun LongArray.take(n: Int): List<Long> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<Long>(n)\n   for (item in this) {\n   if (count++ == n)\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample

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samples.collections.Collections.Transformations.take\n */\npublic fun FloatArray.take(n: Int): List<Float> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >= size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Float>(n)\n for (item in this) {\n if (count++ == n)\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun DoubleArray.take(n: Int): List<Double> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >= size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Double>(n)\n for (item in this) {\n if (count++ == n)\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun BooleanArray.take(n: Int): List<Boolean> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >= size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Boolean>(n)\n for (item in this) {\n if (count++ == n)\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun CharArray.take(n: Int): List<Char> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >= size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Char>(n)\n for (item in this) {\n if (count++ == n)\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun <T> Array<out T>.takeLast(n: Int): List<T> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<T>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun ByteArray.takeLast(n: Int): List<Byte> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<Byte>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun ShortArray.takeLast(n: Int): List<Short> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<Short>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun IntArray.takeLast(n: Int): List<Int> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<Int>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun LongArray.takeLast(n: Int): List<Long> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<Long>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun FloatArray.takeLast(n: Int): List<Float> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val size =
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size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list = ArrayList<Float>(n)\n    for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun DoubleArray.takeLast(n: Int): List<Double> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list = ArrayList<Double>(n)\n    for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun BooleanArray.takeLast(n: Int): List<Boolean> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list = ArrayList<Boolean>(n)\n    for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun CharArray.takeLast(n: Int): List<Char> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list = ArrayList<Char>(n)\n    for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun <T> Array<out T>.takeLastWhile(predicate: (T) -> Boolean): List<T> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n            return drop(index + 1)\n        }\n    }\n    return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun ByteArray.takeLastWhile(predicate: (Byte) -> Boolean): List<Byte> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n            return drop(index + 1)\n        }\n    }\n    return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun ShortArray.takeLastWhile(predicate: (Short) -> Boolean): List<Short> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n            return drop(index + 1)\n        }\n    }\n    return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun IntArray.takeLastWhile(predicate: (Int) -> Boolean): List<Int> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n            return drop(index + 1)\n        }\n    }\n    return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun LongArray.takeLastWhile(predicate: (Long) -> Boolean): List<Long> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n            return drop(index + 1)\n        }\n    }\n    return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun FloatArray.takeLastWhile(predicate: (Float) -> Boolean): List<Float> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n            return drop(index + 1)\n        }\n    }\n    return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun DoubleArray.takeLastWhile(predicate: (Double) -> Boolean): List<Double> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n            return drop(index + 1)\n        }\n    }\n    return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun BooleanArray.takeLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n            return drop(index + 1)\n        }\n    }\n    return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun CharArray.takeLastWhile(predicate:
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(Char) -> Boolean): List<Char> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun <T> Array<out T>.takeWhile(predicate: (T) -> Boolean): List<T> {\n val list = ArrayList<T>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun ByteArray.takeWhile(predicate: (Byte) -> Boolean): List<Byte> {\n val list = ArrayList<Byte>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun ShortArray.takeWhile(predicate: (Short) -> Boolean): List<Short> {\n val list = ArrayList<Short>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun IntArray.takeWhile(predicate: (Int) -> Boolean): List<Int> {\n val list = ArrayList<Int>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun LongArray.takeWhile(predicate: (Long) -> Boolean): List<Long> {\n val list = ArrayList<Long>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun FloatArray.takeWhile(predicate: (Float) -> Boolean): List<Float> {\n val list = ArrayList<Float>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun DoubleArray.takeWhile(predicate: (Double) -> Boolean): List<Double> {\n val list = ArrayList<Double>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun BooleanArray.takeWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n val list = ArrayList<Boolean>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun CharArray.takeWhile(predicate: (Char) -> Boolean): List<Char> {\n val list = ArrayList<Char>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun <T> Array<T>.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun ByteArray.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun ShortArray.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun IntArray.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun LongArray.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n

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  reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun FloatArray.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n  reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun DoubleArray.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun BooleanArray.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun CharArray.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun <T> Array<out T>.reversed(): List<T> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun ByteArray.reversed(): List<Byte> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun ShortArray.reversed(): List<Short> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun IntArray.reversed(): List<Int> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun LongArray.reversed(): List<Long> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun FloatArray.reversed(): List<Float> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun DoubleArray.reversed(): List<Double> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun BooleanArray.reversed(): List<Boolean> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun CharArray.reversed(): List<Char> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun <T> Array<T>.reversedArray(): Array<T> {\n    if (isEmpty()) return this\n    val result = arrayOfNulls(this, size)\n    val lastIndex = lastIndex\n    for (i in 0..lastIndex)\n        result[lastIndex - i] = this[i]\n    return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun ByteArray.reversedArray(): ByteArray {\n    if (isEmpty()) return this\n    val result = ByteArray(size)\n    val lastIndex = lastIndex\n    for (i in 0..lastIndex)\n        result[lastIndex - i] = this[i]\n    return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun ShortArray.reversedArray(): ShortArray {\n    if (isEmpty()) return this\n    val result = ShortArray(size)\n    val lastIndex = lastIndex\n    for (i in 0..lastIndex)\n        result[lastIndex - i] = this[i]\n    return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun IntArray.reversedArray(): IntArray {\n    if (isEmpty()) return this\n    val result = IntArray(size)\n    val lastIndex = lastIndex\n    for (i in 0..lastIndex)\n        result[lastIndex - i] = this[i]\n    return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun LongArray.reversedArray(): LongArray {\n    if (isEmpty()) return this\n    val result = LongArray(size)\n    val lastIndex = lastIndex\n    for (i in 0..lastIndex)\n        result[lastIndex - i] = this[i]\n    return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun FloatArray.reversedArray(): FloatArray {\n    if (isEmpty()) return this\n    val result = FloatArray(size)\n    val lastIndex = lastIndex\n    for (i in 0..lastIndex)\n        result[lastIndex - i] = this[i]\n    return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun DoubleArray.reversedArray(): DoubleArray {\n    if (isEmpty()) return
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this\n   val result = DoubleArray(size)\n   val lastIndex = lastIndex\n   for (i in 0..lastIndex)\n   result[lastIndex - i] = this[i]\n   return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun BooleanArray.reversedArray(): BooleanArray {\n   if (isEmpty()) return this\n   val result = BooleanArray(size)\n   val lastIndex = lastIndex\n   for (i in 0..lastIndex)\n   result[lastIndex - i] = this[i]\n   return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun CharArray.reversedArray(): CharArray {\n   if (isEmpty()) return this\n   val result = CharArray(size)\n   val lastIndex = lastIndex\n   for (i in 0..lastIndex)\n   result[lastIndex - i] = this[i]\n   return result\n}\n\n/**\n * Sorts elements in the array in-place according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>> Array<out T>.sortBy(crossinline selector: (T) -> R?): Unit {\n   if (size > 1) sortWith(compareBy(selector))\n}\n\n/**\n * Sorts elements in the array in-place descending according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>> Array<out T>.sortByDescending(crossinline selector: (T) -> R?): Unit {\n   if (size > 1) sortWith(compareByDescending(selector))\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Array<out T>.sortDescending(): Unit {\n   sortWith(reverseOrder())\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun ByteArray.sortDescending(): Unit {\n   if (size > 1) {\n   sort()\n   reverse()\n   }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun ShortArray.sortDescending(): Unit {\n   if (size > 1) {\n   sort()\n   reverse()\n   }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun IntArray.sortDescending(): Unit {\n   if (size > 1) {\n   sort()\n   reverse()\n   }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun LongArray.sortDescending(): Unit {\n   if (size > 1) {\n   sort()\n   reverse()\n   }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun FloatArray.sortDescending(): Unit {\n   if (size > 1) {\n   sort()\n   reverse()\n   }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun DoubleArray.sortDescending(): Unit {\n   if (size > 1) {\n   sort()\n   reverse()\n   }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun CharArray.sortDescending(): Unit {\n   if (size > 1) {\n   sort()\n   reverse()\n   }\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Array<out T>.sorted(): List<T> {\n   return sortedArray().asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun ByteArray.sorted(): List<Byte> {\n   return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun ShortArray.sorted(): List<Short> {\n   return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun IntArray.sorted(): List<Int> {\n   return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun LongArray.sorted(): List<Long> {\n   return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun FloatArray.sorted(): List<Float> {\n   return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun DoubleArray.sorted(): List<Double> {\n   return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun CharArray.sorted(): List<Char> {\n   return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Array<T>.sortedArray(): Array<T> {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of

this array sorted according to their natural sort order.\n */\npublic fun ByteArray.sortedArray(): ByteArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun ShortArray.sortedArray(): ShortArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun IntArray.sortedArray(): IntArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun LongArray.sortedArray(): LongArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun FloatArray.sortedArray(): FloatArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun DoubleArray.sortedArray(): DoubleArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun CharArray.sortedArray(): CharArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Array<T>.sortedArrayDescending(): Array<T> {\n if (isEmpty()) return this\n return this.copyOf().apply { sortWith(reverseOrder()) }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic fun ByteArray.sortedArrayDescending(): ByteArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic fun ShortArray.sortedArrayDescending(): ShortArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic fun IntArray.sortedArrayDescending(): IntArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic fun LongArray.sortedArrayDescending(): LongArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic fun FloatArray.sortedArrayDescending(): FloatArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic fun DoubleArray.sortedArrayDescending(): DoubleArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic fun CharArray.sortedArrayDescending(): CharArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according the specified [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T> Array<out T>.sortedArrayWith(comparator: Comparator<in T>): Array<out T> {\n if (isEmpty()) return this\n return this.copyOf().apply { sortWith(comparator) }\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>> Array<out T>.sortedBy(crossinline selector: (T) -> R?): List<T> {\n return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> ByteArray.sortedBy(crossinline selector: (Byte) -> R?): List<Byte> {\n return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> ShortArray.sortedBy(crossinline selector: (Short) -> R?): List<Short> {\n return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order

of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> IntArray.sortedBy(crossinline selector: (Int) -> R?): List<Int> {\n return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> LongArray.sortedBy(crossinline selector: (Long) -> R?): List<Long> {\n return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> FloatArray.sortedBy(crossinline selector: (Float) -> R?): List<Float> {\n return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> DoubleArray.sortedBy(crossinline selector: (Double) -> R?): List<Double> {\n return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> BooleanArray.sortedBy(crossinline selector: (Boolean) -> R?): List<Boolean> {\n return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> CharArray.sortedBy(crossinline selector: (Char) -> R?): List<Char> {\n return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>> Array<out T>.sortedByDescending(crossinline selector: (T) -> R?): List<T> {\n return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> ByteArray.sortedByDescending(crossinline selector: (Byte) -> R?): List<Byte> {\n return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> ShortArray.sortedByDescending(crossinline selector: (Short) -> R?): List<Short> {\n return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> IntArray.sortedByDescending(crossinline selector: (Int) -> R?): List<Int> {\n return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> LongArray.sortedByDescending(crossinline selector: (Long) -> R?): List<Long> {\n return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> FloatArray.sortedByDescending(crossinline selector: (Float) -> R?): List<Float> {\n return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> DoubleArray.sortedByDescending(crossinline selector: (Double) -> R?): List<Double> {\n return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> BooleanArray.sortedByDescending(crossinline selector: (Boolean) -> R?): List<Boolean> {\n return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> CharArray.sortedByDescending(crossinline selector: (Char) -> R?): List<Char> {\n return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Array<out T>.sortedDescending():

List<T> {\n   return sortedWith(reverseOrder())\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n */\npublic fun ByteArray.sortedDescending(): List<Byte> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n */\npublic fun ShortArray.sortedDescending(): List<Short> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n */\npublic fun IntArray.sortedDescending(): List<Int> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n */\npublic fun LongArray.sortedDescending(): List<Long> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n */\npublic fun FloatArray.sortedDescending(): List<Float> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n */\npublic fun DoubleArray.sortedDescending(): List<Double> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n */\npublic fun CharArray.sortedDescending(): List<Char> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T> Array<out T>.sortedWith(comparator: Comparator<in T>): List<T> {\n   return sortedArrayWith(comparator).asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun ByteArray.sortedWith(comparator: Comparator<in Byte>): List<Byte> {\n   return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun ShortArray.sortedWith(comparator: Comparator<in Short>): List<Short> {\n   return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun IntArray.sortedWith(comparator: Comparator<in Int>): List<Int> {\n   return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun LongArray.sortedWith(comparator: Comparator<in Long>): List<Long> {\n   return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun FloatArray.sortedWith(comparator: Comparator<in Float>): List<Float> {\n   return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun DoubleArray.sortedWith(comparator: Comparator<in Double>): List<Double> {\n   return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun BooleanArray.sortedWith(comparator: Comparator<in Boolean>): List<Boolean> {\n   return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun CharArray.sortedWith(comparator: Comparator<in Char>): List<Char> {\n   return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun <T> Array<out T>.asList(): List<T>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun ByteArray.asList(): List<Byte>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun ShortArray.asList(): List<Short>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun IntArray.asList(): List<Int>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun LongArray.asList(): List<Long>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun FloatArray.asList(): List<Float>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun DoubleArray.asList(): List<Double>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun BooleanArray.asList(): List<Boolean>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun CharArray.asList(): List<Char>\n\n/**\n * Returns `true` if the two specified arrays are *deeply* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * If two corresponding elements are nested arrays, they are also compared deeply.\n * If any of arrays contains itself on any nesting level the behavior is undefined.\n * \n * The elements of other types are compared for equality with the

[equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\npublic expect infix fun <T> Array<out T>.contentDeepEquals(other: Array<out T>): Boolean\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains itself on any nesting level the behavior is undefined.\n */\n@SinceKotlin(\"1.1\")\npublic expect fun <T> Array<out T>.contentDeepHashCode(): Int\n\n/**\n * Returns a string representation of the contents of this array as if it is a [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains itself on any nesting level that reference\n * is rendered as `\"[...]\"` to prevent recursion.\n * \n * @sample samples.collections.Arrays.ContentOperations.contentDeepToString\n */\n@SinceKotlin(\"1.1\")\npublic expect fun <T> Array<out T>.contentDeepToString(): String\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\npublic expect infix fun <T> Array<out T>.contentEquals(other: Array<out T>): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\npublic expect infix fun ByteArray.contentEquals(other: ByteArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\npublic expect infix fun ShortArray.contentEquals(other: ShortArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\npublic expect infix fun IntArray.contentEquals(other: IntArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\npublic expect infix fun LongArray.contentEquals(other: LongArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\npublic expect infix fun FloatArray.contentEquals(other: FloatArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\npublic expect infix fun DoubleArray.contentEquals(other: DoubleArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\npublic expect infix fun BooleanArray.contentEquals(other: BooleanArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\npublic expect infix fun CharArray.contentEquals(other: CharArray): Boolean\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\npublic expect fun <T> Array<out T>.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n

*/\n@SinceKotlin(\"1.1\")\npublic expect fun ByteArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\npublic expect fun ShortArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\npublic expect fun IntArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\npublic expect fun LongArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\npublic expect fun FloatArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\npublic expect fun DoubleArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\npublic expect fun BooleanArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\npublic expect fun CharArray.contentHashCode(): Int\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\npublic expect fun <T> Array<out T>.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\npublic expect fun ByteArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\npublic expect fun ShortArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\npublic expect fun IntArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\npublic expect fun LongArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\npublic expect fun FloatArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\npublic expect fun DoubleArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\npublic expect fun BooleanArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\npublic expect fun CharArray.contentToString(): String\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun <T> Array<out T>.copyInto(destination: Array<T>, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): Array<T>\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of

the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun ByteArray.copyInto(destination: ByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ByteArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun ShortArray.copyInto(destination: ShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ShortArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): IntArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): LongArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int =

0, startIndex: Int = 0, endIndex: Int = size): FloatArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): CharArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect fun <T> Array<T>.copyOf(): Array<T>\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun ByteArray.copyOf(): ByteArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun ShortArray.copyOf(): ShortArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun IntArray.copyOf(): IntArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun LongArray.copyOf(): LongArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun FloatArray.copyOf(): FloatArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun DoubleArray.copyOf(): DoubleArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample

samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun BooleanArray.copyOf(): BooleanArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun CharArray.copyOf(): CharArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun ByteArray.copyOf(newSize: Int): ByteArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun ShortArray.copyOf(newSize: Int): ShortArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun IntArray.copyOf(newSize: Int): IntArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun LongArray.copyOf(newSize: Int): LongArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun FloatArray.copyOf(newSize: Int): FloatArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun DoubleArray.copyOf(newSize: Int): DoubleArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with `false` values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `false` values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun BooleanArray.copyOf(newSize: Int): BooleanArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with null char (`\\u0000`) values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with null char (`\\u0000`) values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun CharArray.copyOf(newSize: Int): CharArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with `null` values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the

[newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `null` values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizingCopyOf\n */\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect fun <T> Array<T>.copyOf(newSize: Int): Array<T?>\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect fun <T> Array<T>.copyOfRange(fromIndex: Int, toIndex: Int): Array<T>\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic expect fun ByteArray.copyOfRange(fromIndex: Int, toIndex: Int): ByteArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic expect fun ShortArray.copyOfRange(fromIndex: Int, toIndex: Int): ShortArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic expect fun IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic expect fun LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic expect fun FloatArray.copyOfRange(fromIndex: Int, toIndex: Int): FloatArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic expect fun DoubleArray.copyOfRange(fromIndex: Int, toIndex: Int): DoubleArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic expect fun BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic expect fun CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or

its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun FloatArray.fill(element: Float, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val <T> Array<out T>.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val ByteArray.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val ShortArray.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val IntArray.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val LongArray.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val FloatArray.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val DoubleArray.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val BooleanArray.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val CharArray.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n

*/\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns the last valid index for the array.\n */\npublic val <T> Array<out T>.lastIndex: Int\n   get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val ByteArray.lastIndex: Int\n   get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val ShortArray.lastIndex: Int\n   get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val IntArray.lastIndex: Int\n   get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val LongArray.lastIndex: Int\n   get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val FloatArray.lastIndex: Int\n   get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val DoubleArray.lastIndex: Int\n   get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val BooleanArray.lastIndex: Int\n   get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val CharArray.lastIndex: Int\n   get() = size - 1\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect operator fun <T> Array<T>.plus(element: T): Array<T>\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun ByteArray.plus(element: Byte): ByteArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun ShortArray.plus(element: Short): ShortArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun IntArray.plus(element: Int): IntArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun LongArray.plus(element: Long): LongArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun FloatArray.plus(element: Float): FloatArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun DoubleArray.plus(element: Double): DoubleArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun BooleanArray.plus(element: Boolean): BooleanArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun CharArray.plus(element: Char): CharArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect operator fun <T> Array<T>.plus(elements: Collection<T>): Array<T>\n\n/**\n * Returns an array containing all elements of the

original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun ByteArray.plus(elements: Collection<Byte>): ByteArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun ShortArray.plus(elements: Collection<Short>): ShortArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun IntArray.plus(elements: Collection<Int>): IntArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun LongArray.plus(elements: Collection<Long>): LongArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun FloatArray.plus(elements: Collection<Float>): FloatArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun DoubleArray.plus(elements: Collection<Double>): DoubleArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun BooleanArray.plus(elements: Collection<Boolean>): BooleanArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun CharArray.plus(elements: Collection<Char>): CharArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect operator fun <T> Array<T>.plus(elements: Array<out T>): Array<T>\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun ByteArray.plus(elements: ByteArray): ByteArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun ShortArray.plus(elements: ShortArray): ShortArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun IntArray.plus(elements: IntArray): IntArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun LongArray.plus(elements: LongArray): LongArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun FloatArray.plus(elements: FloatArray): FloatArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun DoubleArray.plus(elements: DoubleArray): DoubleArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun BooleanArray.plus(elements: BooleanArray): BooleanArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun CharArray.plus(elements: CharArray): CharArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect fun <T> Array<T>.plusElement(element: T): Array<T>\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun IntArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun LongArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun ByteArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun ShortArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun DoubleArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun FloatArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun CharArray.sort(): Unit\n\n/**\n * Sorts the array in-place according to the natural order of its elements.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \n * @sample samples.collections.Arrays.Sorting.sortArrayOfComparable\n */\npublic expect fun <T :

Comparable<T>> Array<out T>.sort(): Unit\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic expect fun <T> Array<out T>.sortWith(comparator: Comparator<in T>): Unit\n\n/**\n * Returns an array of Boolean containing all of the elements of this generic array.\n */\npublic fun Array<out Boolean>.toBooleanArray(): BooleanArray {\n   return BooleanArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Byte containing all of the elements of this generic array.\n */\npublic fun Array<out Byte>.toByteArray(): ByteArray {\n   return ByteArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Char containing all of the elements of this generic array.\n */\npublic fun Array<out Char>.toCharArray(): CharArray {\n   return CharArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Double containing all of the elements of this generic array.\n */\npublic fun Array<out Double>.toDoubleArray(): DoubleArray {\n   return DoubleArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Float containing all of the elements of this generic array.\n */\npublic fun Array<out Float>.toFloatArray(): FloatArray {\n   return FloatArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Int containing all of the elements of this generic array.\n */\npublic fun Array<out Int>.toIntArray(): IntArray {\n   return IntArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Long containing all of the elements of this generic array.\n */\npublic fun Array<out Long>.toLongArray(): LongArray {\n   return LongArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Short containing all of the elements of this generic array.\n */\npublic fun Array<out Short>.toShortArray(): ShortArray {\n   return ShortArray(size) { index -> this[index] }\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun ByteArray.toTypedArray(): Array<Byte>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun ShortArray.toTypedArray(): Array<Short>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun IntArray.toTypedArray(): Array<Int>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun LongArray.toTypedArray(): Array<Long>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun FloatArray.toTypedArray(): Array<Float>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun DoubleArray.toTypedArray(): Array<Double>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun BooleanArray.toTypedArray(): Array<Boolean>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun CharArray.toTypedArray(): Array<Char>\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <T, K, V> Array<out T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> ByteArray.associate(transform: (Byte) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> ShortArray.associate(transform: (Short) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K,

V> IntArray.associate(transform: (Int) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> LongArray.associate(transform: (Long) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> FloatArray.associate(transform: (Float) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> DoubleArray.associate(transform: (Double) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> BooleanArray.associate(transform: (Boolean) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> CharArray.associate(transform: (Char) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <T, K> Array<out T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, T>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K> ByteArray.associateBy(keySelector: (Byte) -> K): Map<K, Byte> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, Byte>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K> ShortArray.associateBy(keySelector: (Short) -> K): Map<K, Short> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, Short>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K> IntArray.associateBy(keySelector: (Int) -> K): Map<K, Int> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return

associateByTo(LinkedHashMap<K, Int>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K> LongArray.associateBy(keySelector: (Long) -> K): Map<K, Long> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, Long>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K> FloatArray.associateBy(keySelector: (Float) -> K): Map<K, Float> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, Float>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K> DoubleArray.associateBy(keySelector: (Double) -> K): Map<K, Double> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, Double>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K> BooleanArray.associateBy(keySelector: (Boolean) -> K): Map<K, Boolean> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, Boolean>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K> CharArray.associateBy(keySelector: (Char) -> K): Map<K, Char> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, Char>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <T, K, V> Array<out T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> ByteArray.associateBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> ShortArray.associateBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V>

IntArray.associateBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> LongArray.associateBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> FloatArray.associateBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> DoubleArray.associateBy(keySelector: (Double) -> K, valueTransform: (Double) -> V): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> BooleanArray.associateBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> CharArray.associateBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <T, K, M : MutableMap<in K, in T>> Array<out T>.associateByTo(destination: M, keySelector: (T) -> K): M {\n   for (element in this) {\n   destination.put(keySelector(element), element)\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, M : MutableMap<in K, in Byte>> ByteArray.associateByTo(destination: M, keySelector: (Byte) -> K): M {\n   for (element in this) {\n   destination.put(keySelector(element), element)\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, M : MutableMap<in K, in Short>> ShortArray.associateByTo(destination: M, keySelector: (Short) -> K): M {\n   for (element in this) {\n   destination.put(keySelector(element), element)\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the

element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, M : MutableMap<in K, in Int>> IntArray.associateByTo(destination: M, keySelector: (Int) -> K): M {\n   for (element in this) {\n   destination.put(keySelector(element), element)\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, M : MutableMap<in K, in Long>> LongArray.associateByTo(destination: M, keySelector: (Long) -> K): M {\n   for (element in this) {\n   destination.put(keySelector(element), element)\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, M : MutableMap<in K, in Float>> FloatArray.associateByTo(destination: M, keySelector: (Float) -> K): M {\n   for (element in this) {\n   destination.put(keySelector(element), element)\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, M : MutableMap<in K, in Double>> DoubleArray.associateByTo(destination: M, keySelector: (Double) -> K): M {\n   for (element in this) {\n   destination.put(keySelector(element), element)\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, M : MutableMap<in K, in Boolean>> BooleanArray.associateByTo(destination: M, keySelector: (Boolean) -> K): M {\n   for (element in this) {\n   destination.put(keySelector(element), element)\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, M : MutableMap<in K, in Char>> CharArray.associateByTo(destination: M, keySelector: (Char) -> K): M {\n   for (element in this) {\n   destination.put(keySelector(element), element)\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Array<out T>.associateByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n   for (element in this) {\n   destination.put(keySelector(element), valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> ByteArray.associateByTo(destination: M, keySelector: (Byte) -> K, valueTransform: (Byte) -> V): M {\n   for (element in this) {\n   destination.put(keySelector(element), valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> ShortArray.associateByTo(destination: M, keySelector: (Short) -> K, valueTransform: (Short) -> V): M {\n   for (element in this) {\n   destination.put(keySelector(element), valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector]

function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> IntArray.associateByTo(destination: M, keySelector: (Int) -> K, valueTransform: (Int) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> LongArray.associateByTo(destination: M, keySelector: (Long) -> K, valueTransform: (Long) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> FloatArray.associateByTo(destination: M, keySelector: (Float) -> K, valueTransform: (Float) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateByTo(destination: M, keySelector: (Double) -> K, valueTransform: (Double) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> BooleanArray.associateByTo(destination: M, keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> CharArray.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Array<out T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> ByteArray.associateTo(destination: M, transform: (Byte) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> ShortArray.associateTo(destination: M, transform: (Short) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination]

mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> IntArray.associateTo(destination: M, transform: (Int) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> LongArray.associateTo(destination: M, transform: (Long) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> FloatArray.associateTo(destination: M, transform: (Float) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateTo(destination: M, transform: (Double) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> BooleanArray.associateTo(destination: M, transform: (Boolean) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> CharArray.associateTo(destination: M, transform: (Char) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <T, C : MutableCollection<in T>> Array<out T>.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Byte>> ByteArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Short>> ShortArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Int>> IntArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Long>> LongArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Float>> FloatArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Double>> DoubleArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Boolean>> BooleanArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Char>> CharArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Returns a [HashSet] of all elements.\n */\npublic fun <T> Array<out T>.toHashSet(): HashSet<T> {\n return

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toCollection(HashSet<T>(mapCapacity(size)))\n}\n\n/**\n * Returns a [HashSet] of all elements.\n */\npublic fun
ByteArray.toHashSet(): HashSet<Byte> {\n    return toCollection(HashSet<Byte>(mapCapacity(size)))\n}\n\n/**\n
* Returns a [HashSet] of all elements.\n */\npublic fun ShortArray.toHashSet(): HashSet<Short> {\n    return
toCollection(HashSet<Short>(mapCapacity(size)))\n}\n\n/**\n * Returns a [HashSet] of all elements.\n */\npublic
fun IntArray.toHashSet(): HashSet<Int> {\n    return toCollection(HashSet<Int>(mapCapacity(size)))\n}\n\n/**\n *
Returns a [HashSet] of all elements.\n */\npublic fun LongArray.toHashSet(): HashSet<Long> {\n    return
toCollection(HashSet<Long>(mapCapacity(size)))\n}\n\n/**\n * Returns a [HashSet] of all elements.\n */\npublic
fun FloatArray.toHashSet(): HashSet<Float> {\n    return
toCollection(HashSet<Float>(mapCapacity(size)))\n}\n\n/**\n * Returns a [HashSet] of all elements.\n */\npublic
fun DoubleArray.toHashSet(): HashSet<Double> {\n    return
toCollection(HashSet<Double>(mapCapacity(size)))\n}\n\n/**\n * Returns a [HashSet] of all elements.\n */\npublic
fun BooleanArray.toHashSet(): HashSet<Boolean> {\n    return
toCollection(HashSet<Boolean>(mapCapacity(size)))\n}\n\n/**\n * Returns a [HashSet] of all elements.\n
*/\npublic fun CharArray.toHashSet(): HashSet<Char> {\n    return
toCollection(HashSet<Char>(mapCapacity(size)))\n}\n\n/**\n * Returns a [List] containing all elements.\n
*/\npublic fun <T> Array<out T>.toList(): List<T> {\n    return when (size) {\n        0 -> emptyList()\n        1 ->
listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n
*/\npublic fun ByteArray.toList(): List<Byte> {\n    return when (size) {\n        0 -> emptyList()\n        1 ->
listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n
*/\npublic fun ShortArray.toList(): List<Short> {\n    return when (size) {\n        0 -> emptyList()\n        1 ->
listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n
*/\npublic fun IntArray.toList(): List<Int> {\n    return when (size) {\n        0 -> emptyList()\n        1 ->
listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n
*/\npublic fun LongArray.toList(): List<Long> {\n    return when (size) {\n        0 -> emptyList()\n        1 ->
listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n
*/\npublic fun FloatArray.toList(): List<Float> {\n    return when (size) {\n        0 -> emptyList()\n        1 ->
listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n
*/\npublic fun DoubleArray.toList(): List<Double> {\n    return when (size) {\n        0 -> emptyList()\n        1 ->
listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n
*/\npublic fun BooleanArray.toList(): List<Boolean> {\n    return when (size) {\n        0 -> emptyList()\n        1 ->
listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n
*/\npublic fun CharArray.toList(): List<Char> {\n    return when (size) {\n        0 -> emptyList()\n        1 ->
listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [MutableList] filled with all elements
of this array.\n */\npublic fun <T> Array<out T>.toMutableList(): MutableList<T> {\n    return
ArrayList(this.asCollection())\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this array.\n
*/\npublic fun ByteArray.toMutableList(): MutableList<Byte> {\n    val list = ArrayList<Byte>(size)\n    for (item
in this) list.add(item)\n    return list\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this array.\n
*/\npublic fun ShortArray.toMutableList(): MutableList<Short> {\n    val list = ArrayList<Short>(size)\n    for (item
in this) list.add(item)\n    return list\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this array.\n
*/\npublic fun IntArray.toMutableList(): MutableList<Int> {\n    val list = ArrayList<Int>(size)\n    for (item in this)
list.add(item)\n    return list\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this array.\n */\npublic
fun LongArray.toMutableList(): MutableList<Long> {\n    val list = ArrayList<Long>(size)\n    for (item in this)
list.add(item)\n    return list\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this array.\n */\npublic
fun FloatArray.toMutableList(): MutableList<Float> {\n    val list = ArrayList<Float>(size)\n    for (item in this)
list.add(item)\n    return list\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this array.\n */\npublic
fun DoubleArray.toMutableList(): MutableList<Double> {\n    val list = ArrayList<Double>(size)\n    for (item in
this) list.add(item)\n    return list\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this array.\n
*/\npublic fun BooleanArray.toMutableList(): MutableList<Boolean> {\n    val list = ArrayList<Boolean>(size)\n
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for (item in this) list.add(item)\n   return list\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this array.\n */\npublic fun CharArray.toMutableList(): MutableList<Char> {\n   val list = ArrayList<Char>(size)\n for (item in this) list.add(item)\n   return list\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun <T> Array<out T>.toSet(): Set<T> {\n return when (size) {\n   0 -> emptySet()\n   1 -> setOf(this[0])\n   else -> toCollection(LinkedHashSet<T>(mapCapacity(size)))\n   }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun ByteArray.toSet(): Set<Byte> {\n   return when (size) {\n   0 -> emptySet()\n   1 -> setOf(this[0])\n   else -> toCollection(LinkedHashSet<Byte>(mapCapacity(size)))\n   }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun ShortArray.toSet(): Set<Short> {\n   return when (size) {\n   0 -> emptySet()\n   1 -> setOf(this[0])\n   else -> toCollection(LinkedHashSet<Short>(mapCapacity(size)))\n   }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun IntArray.toSet(): Set<Int> {\n   return when (size) {\n   0 -> emptySet()\n   1 -> setOf(this[0])\n   else -> toCollection(LinkedHashSet<Int>(mapCapacity(size)))\n   }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun LongArray.toSet(): Set<Long> {\n   return when (size) {\n   0 -> emptySet()\n   1 -> setOf(this[0])\n   else -> toCollection(LinkedHashSet<Long>(mapCapacity(size)))\n   }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun FloatArray.toSet(): Set<Float> {\n   return when (size) {\n   0 -> emptySet()\n   1 -> setOf(this[0])\n   else -> toCollection(LinkedHashSet<Float>(mapCapacity(size)))\n   }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun DoubleArray.toSet(): Set<Double> {\n   return when (size) {\n   0 -> emptySet()\n   1 -> setOf(this[0])\n   else -> toCollection(LinkedHashSet<Double>(mapCapacity(size)))\n   }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun BooleanArray.toSet(): Set<Boolean> {\n   return when (size) {\n   0 -> emptySet()\n   1 -> setOf(this[0])\n   else -> toCollection(LinkedHashSet<Boolean>(mapCapacity(size)))\n   }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun CharArray.toSet(): Set<Char> {\n   return when (size) {\n   0 -> emptySet()\n   1 -> setOf(this[0])\n   else -> toCollection(LinkedHashSet<Char>(mapCapacity(size)))\n   }\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\npublic inline fun <T, R> Array<out T>.flatMap(transform: (T) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\npublic inline fun <R> ByteArray.flatMap(transform: (Byte) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\npublic inline fun <R> ShortArray.flatMap(transform: (Short) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\npublic inline fun <R> IntArray.flatMap(transform: (Int) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\npublic inline fun <R> LongArray.flatMap(transform: (Long) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\npublic inline fun <R> FloatArray.flatMap(transform: (Float) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\npublic inline fun <R> DoubleArray.flatMap(transform: (Double) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(),

transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\npublic inline fun <R> BooleanArray.flatMap(transform: (Boolean) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\npublic inline fun <R> CharArray.flatMap(transform: (Char) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapTo(destination: C, transform: (T) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> ByteArray.flatMapTo(destination: C, transform: (Byte) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> ShortArray.flatMapTo(destination: C, transform: (Short) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> IntArray.flatMapTo(destination: C, transform: (Int) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> LongArray.flatMapTo(destination: C, transform: (Long) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> FloatArray.flatMapTo(destination: C, transform: (Float) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> DoubleArray.flatMapTo(destination: C, transform: (Double) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> BooleanArray.flatMapTo(destination: C, transform: (Boolean) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> CharArray.flatMapTo(destination: C, transform: (Char) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K> Array<out T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {\n return groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic

inline fun <K> ByteArray.groupBy(keySelector: (Byte) -> K): Map<K, List<Byte>> {\n   return groupByTo(LinkedHashMap<K, MutableList<Byte>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> ShortArray.groupBy(keySelector: (Short) -> K): Map<K, List<Short>> {\n   return groupByTo(LinkedHashMap<K, MutableList<Short>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> IntArray.groupBy(keySelector: (Int) -> K): Map<K, List<Int>> {\n   return groupByTo(LinkedHashMap<K, MutableList<Int>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> LongArray.groupBy(keySelector: (Long) -> K): Map<K, List<Long>> {\n   return groupByTo(LinkedHashMap<K, MutableList<Long>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> FloatArray.groupBy(keySelector: (Float) -> K): Map<K, List<Float>> {\n   return groupByTo(LinkedHashMap<K, MutableList<Float>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> DoubleArray.groupBy(keySelector: (Double) -> K): Map<K, List<Double>> {\n   return groupByTo(LinkedHashMap<K, MutableList<Double>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> BooleanArray.groupBy(keySelector: (Boolean) -> K): Map<K, List<Boolean>> {\n   return groupByTo(LinkedHashMap<K, MutableList<Boolean>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> CharArray.groupBy(keySelector: (Char) -> K): Map<K, List<Char>> {\n   return groupByTo(LinkedHashMap<K, MutableList<Char>>(), keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V> Array<out T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values

returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> ByteArray.groupBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> ShortArray.groupBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> IntArray.groupBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> LongArray.groupBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> FloatArray.groupBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> DoubleArray.groupBy(keySelector: (Double) -> K, valueTransform: (Double) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> BooleanArray.groupBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): Map<K, List<V>> {\n

return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> CharArray.groupBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K, M : MutableMap<in K, MutableList<T>>> Array<out T>.groupByTo(destination: M, keySelector: (T) -> K): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<T>() }\n   list.add(element)\n   }\n   return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Byte>>> ByteArray.groupByTo(destination: M, keySelector: (Byte) -> K): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<Byte>() }\n   list.add(element)\n   }\n   return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Short>>> ShortArray.groupByTo(destination: M, keySelector: (Short) -> K): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<Short>() }\n   list.add(element)\n   }\n   return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Int>>> IntArray.groupByTo(destination: M, keySelector: (Int) -> K): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<Int>() }\n   list.add(element)\n   }\n   return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Long>>> LongArray.groupByTo(destination: M, keySelector: (Long) -> K): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<Long>() }\n   list.add(element)\n   }\n   return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Float>>> FloatArray.groupByTo(destination: M, keySelector: (Float) -> K): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<Float>() }\n   list.add(element)\n   }\n   return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Double>>> DoubleArray.groupByTo(destination: M,

keySelector: (Double) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Double>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Boolean>>> BooleanArray.groupByTo(destination: M, keySelector: (Boolean) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Boolean>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Char>>> CharArray.groupByTo(destination: M, keySelector: (Char) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Char>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> Array<out T>.groupByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ByteArray.groupByTo(destination: M, keySelector: (Byte) -> K, valueTransform: (Byte) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ShortArray.groupByTo(destination: M, keySelector: (Short) -> K, valueTransform: (Short) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> IntArray.groupByTo(destination: M, keySelector: (Int) -> K, valueTransform: (Int) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> LongArray.groupByTo(destination: M, keySelector:

(Long) -> K, valueTransform: (Long) -> V): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<V>() }\n   list.add(valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> FloatArray.groupByTo(destination: M, keySelector: (Float) -> K, valueTransform: (Float) -> V): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<V>() }\n   list.add(valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> DoubleArray.groupByTo(destination: M, keySelector: (Double) -> K, valueTransform: (Double) -> V): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<V>() }\n   list.add(valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> BooleanArray.groupByTo(destination: M, keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<V>() }\n   list.add(valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> CharArray.groupByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<V>() }\n   list.add(valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Creates a [Grouping] source from an array to be used later with one of group-and-fold operations\n * using the specified [keySelector] function to extract a key from each element.\n * \n * @sample samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K> Array<out T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {\n   return object : Grouping<T, K> {\n   override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()\n   override fun keyOf(element: T): K = keySelector(element)\n   }\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <T, R> Array<out T>.map(transform: (T) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> ByteArray.map(transform: (Byte) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> ShortArray.map(transform: (Short) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> IntArray.map(transform: (Int) ->

R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> LongArray.map(transform: (Long) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> FloatArray.map(transform: (Float) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> DoubleArray.map(transform: (Double) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> BooleanArray.map(transform: (Boolean) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> CharArray.map(transform: (Char) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R> Array<out T>.mapIndexed(transform: (index: Int, T) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> ByteArray.mapIndexed(transform: (index: Int, Byte) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> ShortArray.mapIndexed(transform: (index: Int, Short) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> IntArray.mapIndexed(transform: (index: Int, Int) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> LongArray.mapIndexed(transform: (index: Int, Long) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> FloatArray.mapIndexed(transform: (index: Int, Float) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> DoubleArray.mapIndexed(transform: (index: Int, Double) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> BooleanArray.mapIndexed(transform:

(index: Int, Boolean) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> CharArray.mapIndexed(transform: (index: Int, Char) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R : Any> Array<out T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): List<R> {\n   return mapIndexedNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends only the non-null results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Array<out T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {\n   forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Array<out T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {\n   var index = 0\n   for (item in this)\n   destination.add(transform(index++, item))\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>> ByteArray.mapIndexedTo(destination: C, transform: (index: Int, Byte) -> R): C {\n   var index = 0\n   for (item in this)\n   destination.add(transform(index++, item))\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>> ShortArray.mapIndexedTo(destination: C, transform: (index: Int, Short) -> R): C {\n   var index = 0\n   for (item in this)\n   destination.add(transform(index++, item))\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>> IntArray.mapIndexedTo(destination: C, transform: (index: Int, Int) -> R): C {\n   var index = 0\n   for (item in this)\n   destination.add(transform(index++, item))\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>> LongArray.mapIndexedTo(destination: C, transform: (index: Int, Long) -> R): C {\n   var index = 0\n   for (item in this)\n   destination.add(transform(index++, item))\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>> FloatArray.mapIndexedTo(destination: C, transform: (index: Int, Float) -> R): C {\n   var index = 0\n   for (item in this)\n   destination.add(transform(index++, item))\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and

returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>> DoubleArray.mapIndexedTo(destination: C, transform: (index: Int, Double) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>> BooleanArray.mapIndexedTo(destination: C, transform: (index: Int, Boolean) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>> CharArray.mapIndexedTo(destination: C, transform: (index: Int, Char) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each element in the original array.\n */\npublic inline fun <T, R : Any> Array<out T>.mapNotNull(transform: (T) -> R?): List<R> {\n return mapNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each element in the original array\n * and appends only the non-null results to the given [destination].\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Array<out T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {\n forEach { element -> transform(element)?.let { destination.add(it) } }\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Array<out T>.mapTo(destination: C, transform: (T) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> ByteArray.mapTo(destination: C, transform: (Byte) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> ShortArray.mapTo(destination: C, transform: (Short) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> IntArray.mapTo(destination: C, transform: (Int) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> LongArray.mapTo(destination: C, transform: (Long) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> FloatArray.mapTo(destination: C, transform: (Float) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> DoubleArray.mapTo(destination: C, transform: (Double) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> BooleanArray.mapTo(destination: C, transform: (Boolean) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> CharArray.mapTo(destination: C, transform: (Char) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an

[IndexedValue] containing the index of that element and the element itself.\n */\npublic fun <T> Array<out T>.withIndex(): Iterable<IndexedValue<T>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun ByteArray.withIndex(): Iterable<IndexedValue<Byte>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun ShortArray.withIndex(): Iterable<IndexedValue<Short>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun IntArray.withIndex(): Iterable<IndexedValue<Int>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun LongArray.withIndex(): Iterable<IndexedValue<Long>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun FloatArray.withIndex(): Iterable<IndexedValue<Float>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun DoubleArray.withIndex(): Iterable<IndexedValue<Double>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun BooleanArray.withIndex(): Iterable<IndexedValue<Boolean>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun CharArray.withIndex(): Iterable<IndexedValue<Char>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic fun <T> Array<out T>.distinct(): List<T> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic fun ByteArray.distinct(): List<Byte> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic fun ShortArray.distinct(): List<Short> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic fun IntArray.distinct(): List<Int> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic fun LongArray.distinct(): List<Long> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic fun FloatArray.distinct(): List<Float> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic fun DoubleArray.distinct(): List<Double> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic fun BooleanArray.distinct(): List<Boolean> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic fun CharArray.distinct(): List<Char> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic inline fun <T, K> Array<out T>.distinctBy(selector: (T) -> K):

List<T> {\n val set = HashSet<K>()\n val list = ArrayList<T>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic inline fun <K> ByteArray.distinctBy(selector: (Byte) -> K): List<Byte> {\n val set = HashSet<K>()\n val list = ArrayList<Byte>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic inline fun <K> ShortArray.distinctBy(selector: (Short) -> K): List<Short> {\n val set = HashSet<K>()\n val list = ArrayList<Short>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic inline fun <K> IntArray.distinctBy(selector: (Int) -> K): List<Int> {\n val set = HashSet<K>()\n val list = ArrayList<Int>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic inline fun <K> LongArray.distinctBy(selector: (Long) -> K): List<Long> {\n val set = HashSet<K>()\n val list = ArrayList<Long>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic inline fun <K> FloatArray.distinctBy(selector: (Float) -> K): List<Float> {\n val set = HashSet<K>()\n val list = ArrayList<Float>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic inline fun <K> DoubleArray.distinctBy(selector: (Double) -> K): List<Double> {\n val set = HashSet<K>()\n val list = ArrayList<Double>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic inline fun <K> BooleanArray.distinctBy(selector: (Boolean) -> K): List<Boolean> {\n val set = HashSet<K>()\n val list = ArrayList<Boolean>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic inline fun <K> CharArray.distinctBy(selector: (Char) -> K): List<Char> {\n val set = HashSet<K>()\n val list = ArrayList<Char>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a set containing all elements that are contained by both this set and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun <T> Array<out T>.intersect(other: Iterable<T>): Set<T> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this set and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun ByteArray.intersect(other: Iterable<Byte>): Set<Byte> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this set and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun ShortArray.intersect(other: Iterable<Short>): Set<Short> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this set and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n

*/\npublic infix fun IntArray.intersect(other: Iterable<Int>): Set<Int> {\n   val set = this.toMutableSet()\n set.retainAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this set and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun LongArray.intersect(other: Iterable<Long>): Set<Long> {\n   val set = this.toMutableSet()\n set.retainAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this set and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun FloatArray.intersect(other: Iterable<Float>): Set<Float> {\n   val set = this.toMutableSet()\n set.retainAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this set and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun DoubleArray.intersect(other: Iterable<Double>): Set<Double> {\n   val set = this.toMutableSet()\n   set.retainAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this set and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun BooleanArray.intersect(other: Iterable<Boolean>): Set<Boolean> {\n val set = this.toMutableSet()\n   set.retainAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this set and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun CharArray.intersect(other: Iterable<Char>): Set<Char> {\n   val set = this.toMutableSet()\n   set.retainAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun <T> Array<out T>.subtract(other: Iterable<T>): Set<T> {\n   val set = this.toMutableSet()\n   set.removeAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun ByteArray.subtract(other: Iterable<Byte>): Set<Byte> {\n   val set = this.toMutableSet()\n set.removeAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun ShortArray.subtract(other: Iterable<Short>): Set<Short> {\n   val set = this.toMutableSet()\n   set.removeAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun IntArray.subtract(other: Iterable<Int>): Set<Int> {\n   val set = this.toMutableSet()\n   set.removeAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun LongArray.subtract(other: Iterable<Long>): Set<Long> {\n   val set = this.toMutableSet()\n   set.removeAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun FloatArray.subtract(other: Iterable<Float>): Set<Float> {\n   val set = this.toMutableSet()\n set.removeAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun DoubleArray.subtract(other: Iterable<Double>): Set<Double> {\n   val set = this.toMutableSet()\n   set.removeAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun BooleanArray.subtract(other: Iterable<Boolean>): Set<Boolean> {\n   val set = this.toMutableSet()\n   set.removeAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun CharArray.subtract(other: Iterable<Char>): Set<Char> {\n   val set = this.toMutableSet()\n   set.removeAll(other)\n   return set\n}\n\n/**\n * Returns a mutable set containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun <T> Array<out

T>.toMutableSet(): MutableSet<T> {\n   val set = LinkedHashSet<T>(mapCapacity(size))\n   for (item in this) set.add(item)\n   return set\n}\n\n/**\n * Returns a mutable set containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun ByteArray.toMutableSet(): MutableSet<Byte> {\n   val set = LinkedHashSet<Byte>(mapCapacity(size))\n   for (item in this) set.add(item)\n   return set\n}\n\n/**\n * Returns a mutable set containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun ShortArray.toMutableSet(): MutableSet<Short> {\n   val set = LinkedHashSet<Short>(mapCapacity(size))\n   for (item in this) set.add(item)\n   return set\n}\n\n/**\n * Returns a mutable set containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun IntArray.toMutableSet(): MutableSet<Int> {\n   val set = LinkedHashSet<Int>(mapCapacity(size))\n   for (item in this) set.add(item)\n   return set\n}\n\n/**\n * Returns a mutable set containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun LongArray.toMutableSet(): MutableSet<Long> {\n   val set = LinkedHashSet<Long>(mapCapacity(size))\n   for (item in this) set.add(item)\n   return set\n}\n\n/**\n * Returns a mutable set containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun FloatArray.toMutableSet(): MutableSet<Float> {\n   val set = LinkedHashSet<Float>(mapCapacity(size))\n   for (item in this) set.add(item)\n   return set\n}\n\n/**\n * Returns a mutable set containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun DoubleArray.toMutableSet(): MutableSet<Double> {\n   val set = LinkedHashSet<Double>(mapCapacity(size))\n   for (item in this) set.add(item)\n   return set\n}\n\n/**\n * Returns a mutable set containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun BooleanArray.toMutableSet(): MutableSet<Boolean> {\n   val set = LinkedHashSet<Boolean>(mapCapacity(size))\n   for (item in this) set.add(item)\n   return set\n}\n\n/**\n * Returns a mutable set containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun CharArray.toMutableSet(): MutableSet<Char> {\n   val set = LinkedHashSet<Char>(mapCapacity(size))\n   for (item in this) set.add(item)\n   return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n */\npublic infix fun <T> Array<out T>.union(other: Iterable<T>): Set<T> {\n   val set = this.toMutableSet()\n   set.addAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n */\npublic infix fun ByteArray.union(other: Iterable<Byte>): Set<Byte> {\n   val set = this.toMutableSet()\n   set.addAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n */\npublic infix fun ShortArray.union(other: Iterable<Short>): Set<Short> {\n   val set = this.toMutableSet()\n   set.addAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n */\npublic infix fun IntArray.union(other: Iterable<Int>): Set<Int> {\n   val set = this.toMutableSet()\n   set.addAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n */\npublic infix fun LongArray.union(other: Iterable<Long>): Set<Long> {\n   val set = this.toMutableSet()\n   set.addAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n */\npublic infix fun FloatArray.union(other: Iterable<Float>):

Set<Float> {\n   val set = this.toMutableSet()\n   set.addAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n */\npublic infix fun DoubleArray.union(other: Iterable<Double>): Set<Double> {\n val set = this.toMutableSet()\n   set.addAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n */\npublic infix fun BooleanArray.union(other: Iterable<Boolean>): Set<Boolean> {\n   val set = this.toMutableSet()\n   set.addAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n */\npublic infix fun CharArray.union(other: Iterable<Char>): Set<Char> {\n   val set = this.toMutableSet()\n   set.addAll(other)\n   return set\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun <T> Array<out T>.all(predicate: (T) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun ByteArray.all(predicate: (Byte) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun ShortArray.all(predicate: (Short) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun IntArray.all(predicate: (Int) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun LongArray.all(predicate: (Long) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun FloatArray.all(predicate: (Float) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun DoubleArray.all(predicate: (Double) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun BooleanArray.all(predicate: (Boolean) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun CharArray.all(predicate: (Char) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun <T> Array<out T>.any(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun ByteArray.any(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun ShortArray.any(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun IntArray.any(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun LongArray.any(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun FloatArray.any(): Boolean {\n   return

!isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun DoubleArray.any(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun BooleanArray.any(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun CharArray.any(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun <T> Array<out T>.any(predicate: (T) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun ByteArray.any(predicate: (Byte) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun ShortArray.any(predicate: (Short) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun IntArray.any(predicate: (Int) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun LongArray.any(predicate: (Long) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun FloatArray.any(predicate: (Float) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun DoubleArray.any(predicate: (Double) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun BooleanArray.any(predicate: (Boolean) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun CharArray.any(predicate: (Char) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.count(): Int {\n return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.count(): Int {\n return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.count(): Int {\n return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.count(): Int {\n return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.count(): Int {\n return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.count(): Int {\n return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.count(): Int {\n return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.count(): Int {\n return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.count(): Int {\n return size\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun <T> Array<out T>.count(predicate: (T) -> Boolean): Int {\n var count = 0\n for (element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the number of elements matching the given

[predicate].\n */\npublic inline fun ByteArray.count(predicate: (Byte) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun ShortArray.count(predicate: (Short) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun IntArray.count(predicate: (Int) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun LongArray.count(predicate: (Long) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun FloatArray.count(predicate: (Float) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun DoubleArray.count(predicate: (Double) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun BooleanArray.count(predicate: (Boolean) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun CharArray.count(predicate: (Char) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <T, R> Array<out T>.fold(initial: R, operation: (acc: R, T) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <R> ByteArray.fold(initial: R, operation: (acc: R, Byte) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <R> ShortArray.fold(initial: R, operation: (acc: R, Short) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <R> IntArray.fold(initial: R, operation: (acc: R, Int) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <R> LongArray.fold(initial: R, operation: (acc: R, Long) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <R> FloatArray.fold(initial: R, operation: (acc: R, Float) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <R> DoubleArray.fold(initial: R, operation: (acc: R, Double) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <R> BooleanArray.fold(initial: R, operation: (acc: R, Boolean) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <R> CharArray.fold(initial: R, operation: (acc: R, Char) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each

element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <T, R> Array<out T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> ByteArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> ShortArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> IntArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> LongArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> FloatArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> DoubleArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> BooleanArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> CharArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return

accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun <T, R> Array<out T>.foldRight(initial: R, operation: (T, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun <R> ByteArray.foldRight(initial: R, operation: (Byte, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun <R> ShortArray.foldRight(initial: R, operation: (Short, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun <R> IntArray.foldRight(initial: R, operation: (Int, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun <R> LongArray.foldRight(initial: R, operation: (Long, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun <R> FloatArray.foldRight(initial: R, operation: (Float, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun <R> DoubleArray.foldRight(initial: R, operation: (Double, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun <R> BooleanArray.foldRight(initial: R, operation: (Boolean, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun <R> CharArray.foldRight(initial: R, operation: (Char, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <T, R> Array<out T>.foldRightIndexed(initial: R, operation: (index: Int, T, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> ByteArray.foldRightIndexed(initial: R, operation: (index: Int, Byte, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R>

ShortArray.foldRightIndexed(initial: R, operation: (index: Int, Short, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> IntArray.foldRightIndexed(initial: R, operation: (index: Int, Int, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> LongArray.foldRightIndexed(initial: R, operation: (index: Int, Long, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> FloatArray.foldRightIndexed(initial: R, operation: (index: Int, Float, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> DoubleArray.foldRightIndexed(initial: R, operation: (index: Int, Double, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> BooleanArray.foldRightIndexed(initial: R, operation: (index: Int, Boolean, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> CharArray.foldRightIndexed(initial: R, operation: (index: Int, Char, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun <T> Array<out T>.forEach(action: (T) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun ByteArray.forEach(action: (Byte) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun ShortArray.forEach(action: (Short) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun IntArray.forEach(action: (Int) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun LongArray.forEach(action: (Long) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun FloatArray.forEach(action: (Float) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun DoubleArray.forEach(action: (Double) ->

Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun BooleanArray.forEach(action: (Boolean) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun CharArray.forEach(action: (Char) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\npublic inline fun <T> Array<out T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\npublic inline fun ByteArray.forEachIndexed(action: (index: Int, Byte) -> Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\npublic inline fun ShortArray.forEachIndexed(action: (index: Int, Short) -> Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\npublic inline fun IntArray.forEachIndexed(action: (index: Int, Int) -> Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\npublic inline fun LongArray.forEachIndexed(action: (index: Int, Long) -> Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\npublic inline fun FloatArray.forEachIndexed(action: (index: Int, Float) -> Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\npublic inline fun DoubleArray.forEachIndexed(action: (index: Int, Double) -> Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\npublic inline fun BooleanArray.forEachIndexed(action: (index: Int, Boolean) -> Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\npublic inline fun CharArray.forEachIndexed(action: (index: Int, Char) -> Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\npublic fun Array<out Double>.max(): Double? {\n if (isEmpty()) return null\n var max = this[0]\n if (max.isNaN()) return max\n for (i in 1..lastIndex) {\n val e = this[i]\n if (e.isNaN()) return e\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\npublic fun Array<out Float>.max(): Float? {\n if (isEmpty()) return null\n var max = this[0]\n if (max.isNaN()) return max\n for (i in 1..lastIndex) {\n val e = this[i]\n if (e.isNaN()) return e\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\npublic fun <T : Comparable<T>> Array<out T>.max(): T? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\npublic fun ByteArray.max(): Byte? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there

are no elements.\n */\npublic fun ShortArray.max(): Short? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\npublic fun IntArray.max(): Int? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\npublic fun LongArray.max(): Long? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\npublic fun FloatArray.max(): Float? {\n if (isEmpty()) return null\n var max = this[0]\n if (max.isNaN()) return max\n for (i in 1..lastIndex) {\n val e = this[i]\n if (e.isNaN()) return e\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\npublic fun DoubleArray.max(): Double? {\n if (isEmpty()) return null\n var max = this[0]\n if (max.isNaN()) return max\n for (i in 1..lastIndex) {\n val e = this[i]\n if (e.isNaN()) return e\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\npublic fun CharArray.max(): Char? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <T, R : Comparable<R>> Array<out T>.maxBy(selector: (T) -> R): T? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>> ByteArray.maxBy(selector: (Byte) -> R): Byte? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>> ShortArray.maxBy(selector: (Short) -> R): Short? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>> IntArray.maxBy(selector: (Int) -> R): Int? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>> LongArray.maxBy(selector: (Long) -> R): Long? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>>

FloatArray.maxBy(selector: (Float) -> R): Float? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>> DoubleArray.maxBy(selector: (Double) -> R): Double? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>> BooleanArray.maxBy(selector: (Boolean) -> R): Boolean? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>> CharArray.maxBy(selector: (Char) -> R): Char? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun <T> Array<out T>.maxWith(comparator: Comparator<in T>): T? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun ByteArray.maxWith(comparator: Comparator<in Byte>): Byte? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun ShortArray.maxWith(comparator: Comparator<in Short>): Short? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun IntArray.maxWith(comparator: Comparator<in Int>): Int? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun LongArray.maxWith(comparator: Comparator<in Long>): Long? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun FloatArray.maxWith(comparator: Comparator<in Float>): Float? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun DoubleArray.maxWith(comparator: Comparator<in Double>): Double? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun BooleanArray.maxWith(comparator: Comparator<in Boolean>):

Boolean? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun CharArray.maxWith(comparator: Comparator<in Char>): Char? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\npublic fun Array<out Double>.min(): Double? {\n if (isEmpty()) return null\n var min = this[0]\n if (min.isNaN()) return min\n for (i in 1..lastIndex) {\n val e = this[i]\n if (e.isNaN()) return e\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\npublic fun Array<out Float>.min(): Float? {\n if (isEmpty()) return null\n var min = this[0]\n if (min.isNaN()) return min\n for (i in 1..lastIndex) {\n val e = this[i]\n if (e.isNaN()) return e\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\npublic fun <T : Comparable<T>> Array<out T>.min(): T? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\npublic fun ByteArray.min(): Byte? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\npublic fun ShortArray.min(): Short? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\npublic fun IntArray.min(): Int? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\npublic fun LongArray.min(): Long? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\npublic fun FloatArray.min(): Float? {\n if (isEmpty()) return null\n var min = this[0]\n if (min.isNaN()) return min\n for (i in 1..lastIndex) {\n val e = this[i]\n if (e.isNaN()) return e\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\npublic fun DoubleArray.min(): Double? {\n if (isEmpty()) return null\n var min = this[0]\n if (min.isNaN()) return min\n for (i in 1..lastIndex) {\n val e = this[i]\n if (e.isNaN()) return e\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\npublic fun CharArray.min(): Char? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <T, R : Comparable<R>> Array<out T>.minBy(selector: (T) -> R): T? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R : Comparable<R>> ByteArray.minBy(selector: (Byte) -> R): Byte? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R : Comparable<R>>

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ShortArray.minBy(selector: (Short) -> R): Short? {\n    if (isEmpty()) return null\n    var minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue = selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue = v\n        }\n    }\n    return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R : Comparable<R>> IntArray.minBy(selector: (Int) -> R): Int? {\n    if (isEmpty()) return null\n    var minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue = selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue = v\n        }\n    }\n    return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R : Comparable<R>> LongArray.minBy(selector: (Long) -> R): Long? {\n    if (isEmpty()) return null\n    var minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue = selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue = v\n        }\n    }\n    return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R : Comparable<R>> FloatArray.minBy(selector: (Float) -> R): Float? {\n    if (isEmpty()) return null\n    var minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue = selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue = v\n        }\n    }\n    return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R : Comparable<R>> DoubleArray.minBy(selector: (Double) -> R): Double? {\n    if (isEmpty()) return null\n    var minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue = selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue = v\n        }\n    }\n    return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R : Comparable<R>> BooleanArray.minBy(selector: (Boolean) -> R): Boolean? {\n    if (isEmpty()) return null\n    var minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue = selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue = v\n        }\n    }\n    return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R : Comparable<R>> CharArray.minBy(selector: (Char) -> R): Char? {\n    if (isEmpty()) return null\n    var minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue = selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue = v\n        }\n    }\n    return minElem\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun <T> Array<out T>.minWith(comparator: Comparator<in T>): T? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun ByteArray.minWith(comparator: Comparator<in Byte>): Byte? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun
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ShortArray.minWith(comparator: Comparator<in Short>): Short? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun IntArray.minWith(comparator: Comparator<in Int>): Int? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun LongArray.minWith(comparator: Comparator<in Long>): Long? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun FloatArray.minWith(comparator: Comparator<in Float>): Float? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun DoubleArray.minWith(comparator: Comparator<in Double>): Double? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun BooleanArray.minWith(comparator: Comparator<in Boolean>): Boolean? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun CharArray.minWith(comparator: Comparator<in Char>): Char? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun <T> Array<out T>.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun ByteArray.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun ShortArray.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun IntArray.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun LongArray.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun FloatArray.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun DoubleArray.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun BooleanArray.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun CharArray.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun <T> Array<out T>.none(predicate: (T) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun ByteArray.none(predicate: (Byte) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample

samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun ShortArray.none(predicate: (Short) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun IntArray.none(predicate: (Int) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun LongArray.none(predicate: (Long) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun FloatArray.none(predicate: (Float) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun DoubleArray.none(predicate: (Double) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun BooleanArray.none(predicate: (Boolean) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun CharArray.none(predicate: (Char) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <S, T : S> Array<out T>.reduce(operation: (acc: S, T) -> S): S {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator: S = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun ByteArray.reduce(operation: (acc: Byte, Byte) -> Byte): Byte {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun ShortArray.reduce(operation: (acc: Short, Short) -> Short): Short {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun IntArray.reduce(operation: (acc: Int, Int) -> Int): Int {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun LongArray.reduce(operation: (acc: Long, Long) -> Long): Long {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun FloatArray.reduce(operation: (acc: Float, Float) -> Float): Float {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun DoubleArray.reduce(operation: (acc:

Double, Double) -> Double): Double {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun BooleanArray.reduce(operation: (acc: Boolean, Boolean) -> Boolean): Boolean {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun CharArray.reduce(operation: (acc: Char, Char) -> Char): Char {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\npublic inline fun <S, T : S> Array<out T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator: S = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\npublic inline fun ByteArray.reduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): Byte {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\npublic inline fun ShortArray.reduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): Short {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\npublic inline fun IntArray.reduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): Int {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\npublic inline fun LongArray.reduceIndexed(operation: (index: Int, acc: Long, Long) -> Long): Long {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\npublic inline fun FloatArray.reduceIndexed(operation: (index: Int, acc: Float, Float) -

> Float): Float {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\npublic inline fun DoubleArray.reduceIndexed(operation: (index: Int, acc: Double, Double) -> Double): Double {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\npublic inline fun BooleanArray.reduceIndexed(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): Boolean {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\npublic inline fun CharArray.reduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): Char {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun <S, T : S> Array<out T>.reduceRight(operation: (T, acc: S) -> S): S {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator: S = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun ByteArray.reduceRight(operation: (Byte, acc: Byte) -> Byte): Byte {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun ShortArray.reduceRight(operation: (Short, acc: Short) -> Short): Short {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun IntArray.reduceRight(operation: (Int, acc: Int) -> Int): Int {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun LongArray.reduceRight(operation: (Long, acc: Long) -> Long): Long {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun FloatArray.reduceRight(operation: (Float, acc: Float) -> Float): Float {\n var index = lastIndex\n if (index < 0) throw

UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun DoubleArray.reduceRight(operation: (Double, acc: Double) -> Double): Double {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun BooleanArray.reduceRight(operation: (Boolean, acc: Boolean) -> Boolean): Boolean {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun CharArray.reduceRight(operation: (Char, acc: Char) -> Char): Char {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <S, T : S> Array<out T>.reduceRightIndexed(operation: (index: Int, T, acc: S) -> S): S {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator: S = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun ByteArray.reduceRightIndexed(operation: (index: Int, Byte, acc: Byte) -> Byte): Byte {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun ShortArray.reduceRightIndexed(operation: (index: Int, Short, acc: Short) -> Short): Short {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun IntArray.reduceRightIndexed(operation: (index: Int, Int, acc: Int) -> Int): Int {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun LongArray.reduceRightIndexed(operation: (index: Int, Long, acc: Long) -> Long): Long {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var

accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun FloatArray.reduceRightIndexed(operation: (index: Int, Float, acc: Float) -> Float): Float {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun DoubleArray.reduceRightIndexed(operation: (index: Int, Double, acc: Double) -> Double): Double {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun BooleanArray.reduceRightIndexed(operation: (index: Int, Boolean, acc: Boolean) -> Boolean): Boolean {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun CharArray.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun <T> Array<out T>.sumBy(selector: (T) -> Int): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun ByteArray.sumBy(selector: (Byte) -> Int): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun ShortArray.sumBy(selector: (Short) -> Int): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun IntArray.sumBy(selector: (Int) -> Int): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun LongArray.sumBy(selector: (Long) -> Int): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun FloatArray.sumBy(selector: (Float) -> Int): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun DoubleArray.sumBy(selector: (Double) -> Int): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic

inline fun BooleanArray.sumBy(selector: (Boolean) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun CharArray.sumBy(selector: (Char) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun <T> Array<out T>.sumByDouble(selector: (T) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun ByteArray.sumByDouble(selector: (Byte) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun ShortArray.sumByDouble(selector: (Short) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun IntArray.sumByDouble(selector: (Int) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun LongArray.sumByDouble(selector: (Long) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun FloatArray.sumByDouble(selector: (Float) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun DoubleArray.sumByDouble(selector: (Double) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun BooleanArray.sumByDouble(selector: (Boolean) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun CharArray.sumByDouble(selector: (Char) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns an original collection containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.\n */\npublic fun <T : Any> Array<T?>.requireNoNulls(): Array<T> {\n for (element in this) {\n if (element == null) {\n throw IllegalArgumentException(\"null element found in $this.\")\n }\n }\n @Suppress(\"UNCHECKED_CAST\")\n return this as Array<T>\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */\npublic inline fun <T> Array<out T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {\n val first = ArrayList<T>()\n val second = ArrayList<T>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */\npublic inline fun ByteArray.partition(predicate: (Byte) -> Boolean): Pair<List<Byte>, List<Byte>> {\n val first = ArrayList<Byte>()\n val second = ArrayList<Byte>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */\npublic inline fun ShortArray.partition(predicate: (Short) -> Boolean): Pair<List<Short>, List<Short>> {\n val first = ArrayList<Short>()\n val second = ArrayList<Short>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array

into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */\npublic inline fun IntArray.partition(predicate: (Int) -> Boolean): Pair<List<Int>, List<Int>> {\n val first = ArrayList<Int>()\n val second = ArrayList<Int>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */\npublic inline fun LongArray.partition(predicate: (Long) -> Boolean): Pair<List<Long>, List<Long>> {\n val first = ArrayList<Long>()\n val second = ArrayList<Long>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */\npublic inline fun FloatArray.partition(predicate: (Float) -> Boolean): Pair<List<Float>, List<Float>> {\n val first = ArrayList<Float>()\n val second = ArrayList<Float>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */\npublic inline fun DoubleArray.partition(predicate: (Double) -> Boolean): Pair<List<Double>, List<Double>> {\n val first = ArrayList<Double>()\n val second = ArrayList<Double>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */\npublic inline fun BooleanArray.partition(predicate: (Boolean) -> Boolean): Pair<List<Boolean>, List<Boolean>> {\n val first = ArrayList<Boolean>()\n val second = ArrayList<Boolean>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */\npublic inline fun CharArray.partition(predicate: (Char) -> Boolean): Pair<List<Char>, List<Char>> {\n val first = ArrayList<Char>()\n val second = ArrayList<Char>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <T, R> Array<out T>.zip(other: Array<out R>): List<Pair<T, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> ByteArray.zip(other: Array<out R>): List<Pair<Byte, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> ShortArray.zip(other: Array<out R>): List<Pair<Short, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> IntArray.zip(other: Array<out R>): List<Pair<Int, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> LongArray.zip(other: Array<out R>): List<Pair<Long, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from

the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> FloatArray.zip(other: Array<out R>): List<Pair<Float, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> DoubleArray.zip(other: Array<out R>): List<Pair<Double, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> BooleanArray.zip(other: Array<out R>): List<Pair<Boolean, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> CharArray.zip(other: Array<out R>): List<Pair<Char, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <T, R, V> Array<out T>.zip(other: Array<out R>, transform: (a: T, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> ByteArray.zip(other: Array<out R>, transform: (a: Byte, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> ShortArray.zip(other: Array<out R>, transform: (a: Short, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> IntArray.zip(other: Array<out R>, transform: (a: Int, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> LongArray.zip(other: Array<out R>, transform: (a: Long, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> FloatArray.zip(other: Array<out R>, transform: (a: Float, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array

with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> DoubleArray.zip(other: Array<out R>, transform: (a: Double, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> BooleanArray.zip(other: Array<out R>, transform: (a: Boolean, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> CharArray.zip(other: Array<out R>, transform: (a: Char, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <T, R> Array<out T>.zip(other: Iterable<R>): List<Pair<T, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> ByteArray.zip(other: Iterable<R>): List<Pair<Byte, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> ShortArray.zip(other: Iterable<R>): List<Pair<Short, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> IntArray.zip(other: Iterable<R>): List<Pair<Int, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> LongArray.zip(other: Iterable<R>): List<Pair<Long, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> FloatArray.zip(other: Iterable<R>): List<Pair<Float, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> DoubleArray.zip(other: Iterable<R>): List<Pair<Double, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> BooleanArray.zip(other: Iterable<R>): List<Pair<Boolean, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> CharArray.zip(other: Iterable<R>):

List<Pair<Char, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <T, R, V> Array<out T>.zip(other: Iterable<R>, transform: (a: T, b: R) -> V): List<V> {\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the 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arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> IntArray.zip(other: Iterable<R>, transform: (a: Int, b: R) -> V): List<V> {\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied 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= ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> DoubleArray.zip(other: Iterable<R>, transform: (a: Double, b: R) -> V): List<V> {\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the 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samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> BooleanArray.zip(other: Iterable<R>, transform: (a: Boolean, b: R) -> V): List<V> {\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> CharArray.zip(other: Iterable<R>, transform: (a: Char, b: R) -> V): List<V> {\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in 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length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun IntArray.zip(other: IntArray): List<Pair<Int, Int>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun LongArray.zip(other: LongArray): List<Pair<Long, Long>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun FloatArray.zip(other: FloatArray): List<Pair<Float, Float>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun DoubleArray.zip(other: DoubleArray): List<Pair<Double, Double>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun BooleanArray.zip(other: BooleanArray): List<Pair<Boolean, Boolean>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun CharArray.zip(other: CharArray): List<Pair<Char, Char>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <V> ByteArray.zip(other: ByteArray, transform: (a: Byte, b: Byte) -> V): List<V> {\n val size = minOf(size, other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list 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= null): A {\n   buffer.append(prefix)\n   var count = 0\n   for (element in this) {\n   if (++count > 1) buffer.append(separator)\n   if (limit < 0 || count <= limit) {\n   buffer.appendElement(element, transform)\n   } else break\n   }\n   if (limit >= 0 && count > limit) buffer.append(truncated)\n   buffer.append(postfix)\n   return buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which

defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable> ByteArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Byte) -> CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\n buffer.append(transform(element))\n else\n buffer.append(element.toString())\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable> ShortArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Short) -> CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\n buffer.append(transform(element))\n else\n buffer.append(element.toString())\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable> IntArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Int) -> CharSequence)? 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= null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\n buffer.append(transform(element))\n else\n buffer.append(element.toString())\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable> FloatArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Float) -> CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\n buffer.append(transform(element))\n else\n buffer.append(element.toString())\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given

[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable> DoubleArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Double) -> CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\n buffer.append(transform(element))\n else\n buffer.append(element.toString())\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable> BooleanArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Boolean) -> CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\n buffer.append(transform(element))\n else\n buffer.append(element.toString())\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable> CharArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Char) -> CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\n buffer.append(transform(element))\n else\n buffer.append(element)\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun <T> Array<out T>.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((T) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun ByteArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Byte) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun ShortArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated:

CharSequence = \"...\", transform: ((Short) -> CharSequence)? = null): String {\n   return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun IntArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Int) -> CharSequence)? = null): String {\n   return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun LongArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Long) -> CharSequence)? = null): String {\n   return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun FloatArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Float) -> CharSequence)? = null): String {\n   return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun DoubleArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Double) -> CharSequence)? = null): String {\n   return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun BooleanArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Boolean) -> CharSequence)? = null): String {\n   return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun CharArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Char) -> CharSequence)? = null): String {\n   return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun <T> Array<out T>.asIterable(): Iterable<T> {\n   if (isEmpty()) return emptyList()\n   return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun ByteArray.asIterable(): Iterable<Byte> {\n   if (isEmpty()) return emptyList()\n   return Iterable { this.iterator()

}\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun ShortArray.asIterable(): Iterable<Short> {\n   if (isEmpty()) return emptyList()\n   return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun IntArray.asIterable(): Iterable<Int> {\n   if (isEmpty()) return emptyList()\n   return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun LongArray.asIterable(): Iterable<Long> {\n   if (isEmpty()) return emptyList()\n   return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun FloatArray.asIterable(): Iterable<Float> {\n   if (isEmpty()) return emptyList()\n   return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun DoubleArray.asIterable(): Iterable<Double> {\n   if (isEmpty()) return emptyList()\n   return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun BooleanArray.asIterable(): Iterable<Boolean> {\n   if (isEmpty()) return emptyList()\n   return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun CharArray.asIterable(): Iterable<Char> {\n   if (isEmpty()) return emptyList()\n   return Iterable { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun <T> Array<out T>.asSequence(): Sequence<T> {\n   if (isEmpty()) return emptySequence()\n   return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun ByteArray.asSequence(): Sequence<Byte> {\n   if (isEmpty()) return emptySequence()\n   return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun ShortArray.asSequence(): Sequence<Short> {\n   if (isEmpty()) return emptySequence()\n   return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun IntArray.asSequence(): Sequence<Int> {\n   if (isEmpty()) return emptySequence()\n   return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun LongArray.asSequence(): Sequence<Long> {\n   if (isEmpty()) return emptySequence()\n   return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun FloatArray.asSequence(): Sequence<Float> {\n   if (isEmpty()) return emptySequence()\n   return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun DoubleArray.asSequence(): Sequence<Double> {\n   if (isEmpty()) return emptySequence()\n   return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun BooleanArray.asSequence(): Sequence<Boolean> {\n   if (isEmpty()) return emptySequence()\n   return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun CharArray.asSequence(): Sequence<Char> {\n   if (isEmpty()) return emptySequence()\n   return Sequence { this.iterator() }\n}\n\n/**\n * Returns an average value of elements in the array.\n */\n@kotlin.jvm.JvmName(\"averageOfByte\")\npublic fun Array<out Byte>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   ++count\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\n@kotlin.jvm.JvmName(\"averageOfShort\")\npublic fun Array<out Short>.average(): Double {\n   var sum:

Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   ++count\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\n@kotlin.jvm.JvmName(\"averageOfInt\")\npublic fun Array<out Int>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   ++count\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\n@kotlin.jvm.JvmName(\"averageOfLong\")\npublic fun Array<out Long>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   ++count\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\n@kotlin.jvm.JvmName(\"averageOfFloat\")\npublic fun Array<out Float>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   ++count\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\n@kotlin.jvm.JvmName(\"averageOfDouble\")\npublic fun Array<out Double>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   ++count\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun ByteArray.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   ++count\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun ShortArray.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   ++count\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun IntArray.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   ++count\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun LongArray.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   ++count\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun FloatArray.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   ++count\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun DoubleArray.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   ++count\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfByte\")\npublic fun Array<out Byte>.sum(): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfShort\")\npublic fun Array<out Short>.sum(): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfInt\")\npublic fun Array<out Int>.sum(): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfLong\")\npublic fun Array<out Long>.sum(): Long {\n   var sum: Long = 0L\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfFloat\")\npublic fun Array<out Float>.sum(): Float {\n   var sum: Float = 0.0f\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfDouble\")\npublic fun Array<out Double>.sum(): Double {\n   var sum: Double = 0.0\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun ByteArray.sum(): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun ShortArray.sum(): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun IntArray.sum(): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun LongArray.sum(): Long {\n

var sum: Long = 0L\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun FloatArray.sum(): Float {\n   var sum: Float = 0.0f\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun DoubleArray.sum(): Double {\n   var sum: Double = 0.0\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"RangesKt\")\n\npackage kotlin.ranges\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\n\n/**\n * Returns a random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun IntRange.random(): Int {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun LongRange.random(): Long {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun CharRange.random(): Char {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun IntRange.random(random: Random): Int {\n   try {\n   return random.nextInt(this)\n   } catch(e: IllegalArgumentException) {\n   throw NoSuchElementException(e.message)\n   }\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun LongRange.random(random: Random): Long {\n   try {\n   return random.nextLong(this)\n   } catch(e: IllegalArgumentException) {\n   throw NoSuchElementException(e.message)\n   }\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun CharRange.random(random: Random): Char {\n   try {\n   return random.nextInt(first.toInt(), last.toInt() + 1).toChar()\n   } catch(e: IllegalArgumentException) {\n   throw NoSuchElementException(e.message)\n   }\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline operator fun IntRange.contains(element: Int?): Boolean {\n   return element != null && contains(element)\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline operator fun LongRange.contains(element: Long?): Boolean {\n   return element != null && contains(element)\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline operator fun CharRange.contains(element: Char?): Boolean {\n   return element != null && contains(element)\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"intRangeContains\")\npublic operator fun ClosedRange<Int>.contains(value: Byte): Boolean {\n   return contains(value.toInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"longRangeContains\")\npublic operator fun ClosedRange<Long>.contains(value: Byte): Boolean {\n   return contains(value.toLong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"shortRangeContains\")\npublic operator fun ClosedRange<Short>.contains(value: Byte): Boolean {\n   return contains(value.toShort())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"doubleRangeContains\")\npublic operator fun

ClosedRange<Double>.contains(value: Byte): Boolean {\n   return contains(value.toDouble())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"floatRangeContains\")\npublic operator fun ClosedRange<Float>.contains(value: Byte): Boolean {\n   return contains(value.toFloat())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"intRangeContains\")\npublic operator fun ClosedRange<Int>.contains(value: Double): Boolean {\n   return value.toIntExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"longRangeContains\")\npublic operator fun ClosedRange<Long>.contains(value: Double): Boolean {\n   return value.toLongExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"byteRangeContains\")\npublic operator fun ClosedRange<Byte>.contains(value: Double): Boolean {\n   return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"shortRangeContains\")\npublic operator fun ClosedRange<Short>.contains(value: Double): Boolean {\n   return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"floatRangeContains\")\npublic operator fun ClosedRange<Float>.contains(value: Double): Boolean {\n   return contains(value.toFloat())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"intRangeContains\")\npublic operator fun ClosedRange<Int>.contains(value: Float): Boolean {\n   return value.toIntExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"longRangeContains\")\npublic operator fun ClosedRange<Long>.contains(value: Float): Boolean {\n   return value.toLongExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"byteRangeContains\")\npublic operator fun ClosedRange<Byte>.contains(value: Float): Boolean {\n   return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"shortRangeContains\")\npublic operator fun ClosedRange<Short>.contains(value: Float): Boolean {\n   return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"doubleRangeContains\")\npublic operator fun ClosedRange<Double>.contains(value: Float): Boolean {\n   return contains(value.toDouble())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"longRangeContains\")\npublic operator fun ClosedRange<Long>.contains(value: Int): Boolean {\n   return contains(value.toLong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"byteRangeContains\")\npublic operator fun ClosedRange<Byte>.contains(value: Int): Boolean {\n   return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"shortRangeContains\")\npublic operator fun ClosedRange<Short>.contains(value: Int):

Boolean {\n   return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"doubleRangeContains\")\npublic operator fun ClosedRange<Double>.contains(value: Int): Boolean {\n   return contains(value.toDouble())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"floatRangeContains\")\npublic operator fun ClosedRange<Float>.contains(value: Int): Boolean {\n   return contains(value.toFloat())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"intRangeContains\")\npublic operator fun ClosedRange<Int>.contains(value: Long): Boolean {\n   return value.toIntExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"byteRangeContains\")\npublic operator fun ClosedRange<Byte>.contains(value: Long): Boolean {\n   return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"shortRangeContains\")\npublic operator fun ClosedRange<Short>.contains(value: Long): Boolean {\n   return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"doubleRangeContains\")\npublic operator fun ClosedRange<Double>.contains(value: Long): Boolean {\n   return contains(value.toDouble())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"floatRangeContains\")\npublic operator fun ClosedRange<Float>.contains(value: Long): Boolean {\n   return contains(value.toFloat())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"intRangeContains\")\npublic operator fun ClosedRange<Int>.contains(value: Short): Boolean {\n   return contains(value.toInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"longRangeContains\")\npublic operator fun ClosedRange<Long>.contains(value: Short): Boolean {\n   return contains(value.toLong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"byteRangeContains\")\npublic operator fun ClosedRange<Byte>.contains(value: Short): Boolean {\n   return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"doubleRangeContains\")\npublic operator fun ClosedRange<Double>.contains(value: Short): Boolean {\n   return contains(value.toDouble())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"floatRangeContains\")\npublic operator fun ClosedRange<Float>.contains(value: Short): Boolean {\n   return contains(value.toFloat())\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Int.downTo(to: Byte): IntProgression {\n   return IntProgression.fromClosedRange(this, to.toInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Long.downTo(to: Byte): LongProgression {\n   return LongProgression.fromClosedRange(this, to.toLong(), -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Byte.downTo(to: Byte): IntProgression {\n   return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -

1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Short.downTo(to: Byte): IntProgression {\n return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Char.downTo(to: Char): CharProgression {\n return CharProgression.fromClosedRange(this, to, -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Int.downTo(to: Int): IntProgression {\n return IntProgression.fromClosedRange(this, to, -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Long.downTo(to: Int): LongProgression {\n return LongProgression.fromClosedRange(this, to.toLong(), -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Byte.downTo(to: Int): IntProgression {\n return IntProgression.fromClosedRange(this.toInt(), to, -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Short.downTo(to: Int): IntProgression {\n return IntProgression.fromClosedRange(this.toInt(), to, -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Int.downTo(to: Long): LongProgression {\n return LongProgression.fromClosedRange(this.toLong(), to, -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Long.downTo(to: Long): LongProgression {\n return LongProgression.fromClosedRange(this, to, -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Byte.downTo(to: Long): LongProgression {\n return LongProgression.fromClosedRange(this.toLong(), to, -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Short.downTo(to: Long): LongProgression {\n return LongProgression.fromClosedRange(this.toLong(), to, -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Int.downTo(to: Short): IntProgression {\n return IntProgression.fromClosedRange(this, to.toInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Long.downTo(to: Short): LongProgression {\n return LongProgression.fromClosedRange(this, to.toLong(), -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Byte.downTo(to: Short): IntProgression {\n return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Short.downTo(to: Short): IntProgression {\n return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -

1)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the same step.\n */\npublic fun IntProgression.reversed(): IntProgression {\n return IntProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the same step.\n */\npublic fun LongProgression.reversed(): LongProgression {\n return LongProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the same step.\n */\npublic fun CharProgression.reversed(): CharProgression {\n return CharProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a progression that goes over the same range with the given step.\n */\npublic infix fun IntProgression.step(step: Int): IntProgression {\n checkStepIsPositive(step > 0, step)\n return IntProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/**\n * Returns a progression that goes over the same range with the given step.\n */\npublic infix fun LongProgression.step(step: Long): LongProgression {\n checkStepIsPositive(step > 0, step)\n return LongProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/**\n * Returns a progression that goes over the same range with the given step.\n */\npublic infix fun CharProgression.step(step: Int): CharProgression {\n checkStepIsPositive(step > 0, step)\n return CharProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\ninternal fun Int.toByteExactOrNull(): Byte? {\n return if (this in Byte.MIN_VALUE.toInt()..Byte.MAX_VALUE.toInt()) this.toByte() else null\n}\n\ninternal fun Long.toByteExactOrNull(): Byte? {\n return if (this in Byte.MIN_VALUE.toLong()..Byte.MAX_VALUE.toLong()) this.toByte() else null\n}\n\ninternal fun Short.toByteExactOrNull(): Byte? {\n return if (this in Byte.MIN_VALUE.toShort()..Byte.MAX_VALUE.toShort()) this.toByte() else null\n}\n\ninternal fun Double.toByteExactOrNull(): Byte? {\n return if (this in Byte.MIN_VALUE.toDouble()..Byte.MAX_VALUE.toDouble()) this.toByte() else null\n}\n\ninternal fun Float.toByteExactOrNull(): Byte? {\n return if (this in Byte.MIN_VALUE.toFloat()..Byte.MAX_VALUE.toFloat()) this.toByte() else null\n}\n\ninternal fun Long.toIntExactOrNull(): Int? {\n return if (this in Int.MIN_VALUE.toLong()..Int.MAX_VALUE.toLong()) this.toInt() else null\n}\n\ninternal fun Double.toIntExactOrNull(): Int? {\n return if (this in Int.MIN_VALUE.toDouble()..Int.MAX_VALUE.toDouble()) this.toInt() else null\n}\n\ninternal fun Float.toIntExactOrNull(): Int? {\n return if (this in Int.MIN_VALUE.toFloat()..Int.MAX_VALUE.toFloat()) this.toInt() else null\n}\n\ninternal fun Double.toLongExactOrNull(): Long? {\n return if (this in Long.MIN_VALUE.toDouble()..Long.MAX_VALUE.toDouble()) this.toLong() else null\n}\n\ninternal fun Float.toLongExactOrNull(): Long? {\n return if (this in Long.MIN_VALUE.toFloat()..Long.MAX_VALUE.toFloat()) this.toLong() else null\n}\n\ninternal fun Int.toShortExactOrNull(): Short? {\n return if (this in Short.MIN_VALUE.toInt()..Short.MAX_VALUE.toInt()) this.toShort() else null\n}\n\ninternal fun Long.toShortExactOrNull(): Short? {\n return if (this in Short.MIN_VALUE.toLong()..Short.MAX_VALUE.toLong()) this.toShort() else null\n}\n\ninternal fun Double.toShortExactOrNull(): Short? {\n return if (this in Short.MIN_VALUE.toDouble()..Short.MAX_VALUE.toDouble()) this.toShort() else null\n}\n\ninternal fun Float.toShortExactOrNull(): Short? {\n return if (this in Short.MIN_VALUE.toFloat()..Short.MAX_VALUE.toFloat()) this.toShort() else null\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Int.until(to: Byte): IntRange {\n return this .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Long.until(to: Byte): LongRange {\n return this .. (to.toLong() - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Byte.until(to: Byte): IntRange {\n return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun

Short.until(to: Byte): IntRange {\n   return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Char.until(to: Char): CharRange {\n   if (to <= '\\u0000') return CharRange.EMPTY\n   return this .. (to - 1).toChar()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Int.until(to: Int): IntRange {\n   if (to <= Int.MIN_VALUE) return IntRange.EMPTY\n   return this .. (to - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Long.until(to: Int): LongRange {\n   return this .. (to.toLong() - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Byte.until(to: Int): IntRange {\n   if (to <= Int.MIN_VALUE) return IntRange.EMPTY\n   return this.toInt() .. (to - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Short.until(to: Int): IntRange {\n   if (to <= Int.MIN_VALUE) return IntRange.EMPTY\n   return this.toInt() .. (to - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Int.until(to: Long): LongRange {\n   if (to <= Long.MIN_VALUE) return LongRange.EMPTY\n   return this.toLong() .. (to - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Long.until(to: Long): LongRange {\n   if (to <= Long.MIN_VALUE) return LongRange.EMPTY\n   return this .. (to - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Byte.until(to: Long): LongRange {\n   if (to <= Long.MIN_VALUE) return LongRange.EMPTY\n   return this.toLong() .. (to - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Short.until(to: Long): LongRange {\n   if (to <= Long.MIN_VALUE) return LongRange.EMPTY\n   return this.toLong() .. (to - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Int.until(to: Short): IntRange {\n   return this .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Long.until(to: Short): LongRange {\n   return this .. (to.toLong() - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Byte.until(to: Short): IntRange {\n   return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Short.until(to: Short): IntRange {\n   return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeastComparable\n */\npublic fun <T : Comparable<T>> T.coerceAtLeast(minimumValue: T): T {\n   return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun Byte.coerceAtLeast(minimumValue: Byte): Byte {\n   return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun Short.coerceAtLeast(minimumValue: Short): Short {\n   return if (this < minimumValue)

minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun Int.coerceAtLeast(minimumValue: Int): Int {\n return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun Long.coerceAtLeast(minimumValue: Long): Long {\n return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun Float.coerceAtLeast(minimumValue: Float): Float {\n return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun Double.coerceAtLeast(minimumValue: Double): Double {\n return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMostComparable\n */\npublic fun <T : Comparable<T>> T.coerceAtMost(maximumValue: T): T {\n return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Byte.coerceAtMost(maximumValue: Byte): Byte {\n return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Short.coerceAtMost(maximumValue: Short): Short {\n return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Int.coerceAtMost(maximumValue: Int): Int {\n return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Long.coerceAtMost(maximumValue: Long): Long {\n return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Float.coerceAtMost(maximumValue: Float): Float {\n return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Double.coerceAtMost(maximumValue: Double): Double {\n return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInComparable\n */\npublic fun <T : Comparable<T>> T.coerceIn(minimumValue: T?, maximumValue: T?): T {\n if (minimumValue !== null && maximumValue !== null) {\n if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than

minimum $minimumValue.\")\n   if (this < minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n   }\n   else {\n   if (minimumValue !== null && this < minimumValue) return minimumValue\n   if (maximumValue !== null && this > maximumValue) return maximumValue\n   }\n   return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Byte.coerceIn(minimumValue: Byte, maximumValue: Byte): Byte {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n   if (this < minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n   return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Short.coerceIn(minimumValue: Short, maximumValue: Short): Short {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n   if (this < minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n   return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Int.coerceIn(minimumValue: Int, maximumValue: Int): Int {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n   if (this < minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n   return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Long.coerceIn(minimumValue: Long, maximumValue: Long): Long {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n   if (this < minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n   return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Float.coerceIn(minimumValue: Float, maximumValue: Float): Float {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n   if (this < minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n   return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Double.coerceIn(minimumValue: Double, maximumValue: Double): Double {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n   if (this < minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n   return this\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample samples.comparisons.ComparableOps.coerceInFloatingPointRange\n */\n@SinceKotlin(\"1.1\")\npublic fun <T :

Comparable<T>> T.coerceIn(range: ClosedFloatingPointRange<T>): T {\n if (range.isEmpty()) throw IllegalArgumentException(\"Cannot coerce value to an empty range: $range.\")\n return when {\n // this < start equiv to this <= start && !(this >= start)\n range.lessThanOrEquals(this, range.start) && !range.lessThanOrEquals(range.start, this) -> range.start\n // this > end equiv to this >= end && !(this <= end)\n range.lessThanOrEquals(range.endInclusive, this) && !range.lessThanOrEquals(this, range.endInclusive) -> range.endInclusive\n else -> this\n }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample samples.comparisons.ComparableOps.coerceInComparable\n */\npublic fun <T : Comparable<T>> T.coerceIn(range: ClosedRange<T>): T {\n if (range is ClosedFloatingPointRange) {\n return this.coerceIn<T>(range)\n }\n if (range.isEmpty()) throw IllegalArgumentException(\"Cannot coerce value to an empty range: $range.\")\n return when {\n this < range.start -> range.start\n this > range.endInclusive -> range.endInclusive\n else -> this\n }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Int.coerceIn(range: ClosedRange<Int>): Int {\n if (range is ClosedFloatingPointRange) {\n return this.coerceIn<Int>(range)\n }\n if (range.isEmpty()) throw IllegalArgumentException(\"Cannot coerce value to an empty range: $range.\")\n return when {\n this < range.start -> range.start\n this > range.endInclusive -> range.endInclusive\n else -> this\n }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Long.coerceIn(range: ClosedRange<Long>): Long {\n if (range is ClosedFloatingPointRange) {\n return this.coerceIn<Long>(range)\n }\n if (range.isEmpty()) throw IllegalArgumentException(\"Cannot coerce value to an empty range: $range.\")\n return when {\n this < range.start -> range.start\n this > range.endInclusive -> range.endInclusive\n else -> this\n }\n}\n\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// Auto-generated file. DO NOT EDIT!\r\n\r\npackage kotlin\r\n\r\nimport kotlin.experimental.*\r\n\r\n@Suppress(\"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS\")\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic inline class UByte @PublishedApi internal constructor(@PublishedApi internal val data: Byte) : Comparable<UByte> {\r\n\r\n companion object {\r\n /**\r\n * A constant holding the minimum value an instance of UByte can have.\r\n */\r\n public const val MIN_VALUE: UByte = UByte(0)\r\n\r\n /**\r\n * A constant holding the maximum value an instance of UByte can have.\r\n */\r\n public const val MAX_VALUE: UByte = UByte(-1)\r\n\r\n /**\r\n * The number of bytes used to represent an instance of UByte in a binary form.\r\n */\r\n public const val SIZE_BYTES: Int = 1\r\n\r\n /**\r\n * The number of bits used to represent an instance of UByte in a binary form.\r\n */\r\n public const val SIZE_BITS: Int = 8\r\n }\r\n\r\n /**\r\n * Compares this value with the specified value for order.\r\n * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\r\n * or a positive number if it's greater than other.\r\n */\r\n @kotlin.internal.InlineOnly\r\n @Suppress(\"OVERRIDE_BY_INLINE\")\r\n public override inline operator fun compareTo(other: UByte): Int = this.toInt().compareTo(other.toInt())\r\n\r\n /**\r\n * Compares this value with the specified value for order.\r\n * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\r\n * or a positive number if it's greater than other.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun compareTo(other: UShort): Int = this.toInt().compareTo(other.toInt())\r\n\r\n /**\r\n * Compares this value with the specified value for order.\r\n * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\r\n * or a positive number if it's greater than other.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun compareTo(other: UInt): Int = this.toUInt().compareTo(other)\r\n\r\n /**\r\n * Compares this value with the

specified value for order.\r\n * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\r\n * or a positive number if it's greater than other.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun compareTo(other: ULong): Int = this.toULong().compareTo(other)\r\n\r\n /** Adds the other value to this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun plus(other: UByte): UInt = this.toUInt().plus(other.toUInt())\r\n /** Adds the other value to this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun plus(other: UShort): UInt = this.toUInt().plus(other.toUInt())\r\n /** Adds the other value to this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun plus(other: UInt): UInt = this.toUInt().plus(other)\r\n /** Adds the other value to this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)\r\n\r\n /** Subtracts the other value from this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun minus(other: UByte): UInt = this.toUInt().minus(other.toUInt())\r\n /** Subtracts the other value from this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun minus(other: UShort): UInt = this.toUInt().minus(other.toUInt())\r\n /** Subtracts the other value from this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun minus(other: UInt): UInt = this.toUInt().minus(other)\r\n /** Subtracts the other value from this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun minus(other: ULong): ULong = this.toULong().minus(other)\r\n\r\n /** Multiplies this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun times(other: UByte): UInt = this.toUInt().times(other.toUInt())\r\n /** Multiplies this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun times(other: UShort): UInt = this.toUInt().times(other.toUInt())\r\n /** Multiplies this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun times(other: UInt): UInt = this.toUInt().times(other)\r\n /** Multiplies this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun times(other: ULong): ULong = this.toULong().times(other)\r\n\r\n /** Divides this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun div(other: UByte): UInt = this.toUInt().div(other.toUInt())\r\n /** Divides this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun div(other: UShort): UInt = this.toUInt().div(other.toUInt())\r\n /** Divides this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun div(other: UInt): UInt = this.toUInt().div(other)\r\n /** Divides this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun div(other: ULong): ULong = this.toULong().div(other)\r\n\r\n /** Calculates the remainder of dividing this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun rem(other: UByte): UInt = this.toUInt().rem(other.toUInt())\r\n /** Calculates the remainder of dividing this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun rem(other: UShort): UInt = this.toUInt().rem(other.toUInt())\r\n /** Calculates the remainder of dividing this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun rem(other: UInt): UInt = this.toUInt().rem(other)\r\n /** Calculates the remainder of dividing this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)\r\n\r\n /** Increments this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun inc(): UByte = UByte(data.inc())\r\n /** Decrements this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun dec(): UByte = UByte(data.dec())\r\n\r\n /** Creates a range from this value to the specified [other] value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun rangeTo(other: UByte): UIntRange = UIntRange(this.toUInt(), other.toUInt())\r\n\r\n /** Performs a bitwise AND operation between the two values. */\r\n @kotlin.internal.InlineOnly\r\n public inline infix fun and(other: UByte): UByte = UByte(this.data and other.data)\r\n /** Performs a bitwise OR operation between the two values. */\r\n @kotlin.internal.InlineOnly\r\n public inline infix fun or(other: UByte): UByte = UByte(this.data or other.data)\r\n /** Performs a bitwise XOR operation between the two values. */\r\n @kotlin.internal.InlineOnly\r\n public inline infix fun xor(other: UByte): UByte = UByte(this.data xor other.data)\r\n /** Inverts the bits in this value.

*/\r\n @kotlin.internal.InlineOnly\r\n public inline fun inv(): UByte = UByte(data.inv())\r\n\r\n /**\r\n * Converts this [UByte] value to [Byte].\r\n *\r\n * If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\r\n * the same numerical value as this `UByte`. Otherwise the result is negative.\r\n *\r\n * The resulting `Byte` value has the same binary representation as this `UByte` value.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toByte(): Byte = data\r\n /**\r\n * Converts this [UByte] value to [Short].\r\n *\r\n * The resulting `Short` value represents the same numerical value as this `UByte`.\r\n *\r\n * The least significant 8 bits of the resulting `Short` value are the same as the bits of this `UByte` value,\r\n * whereas the most significant 8 bits are filled with zeros.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toShort(): Short = data.toShort() and 0xFF\r\n /**\r\n * Converts this [UByte] value to [Int].\r\n *\r\n * The resulting `Int` value represents the same numerical value as this `UByte`.\r\n *\r\n * The least significant 8 bits of the resulting `Int` value are the same as the bits of this `UByte` value,\r\n * whereas the most significant 24 bits are filled with zeros.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toInt(): Int = data.toInt() and 0xFF\r\n /**\r\n * Converts this [UByte] value to [Long].\r\n *\r\n * The resulting `Long` value represents the same numerical value as this `UByte`.\r\n *\r\n * The least significant 8 bits of the resulting `Long` value are the same as the bits of this `UByte` value,\r\n * whereas the most significant 56 bits are filled with zeros.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toLong(): Long = data.toLong() and 0xFF\r\n\r\n /** Returns this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toUByte(): UByte = this\r\n /**\r\n * Converts this [UByte] value to [UShort].\r\n *\r\n * The resulting `UShort` value represents the same numerical value as this `UByte`.\r\n *\r\n * The least significant 8 bits of the resulting `UShort` value are the same as the bits of this `UByte` value,\r\n * whereas the most significant 8 bits are filled with zeros.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toUShort(): UShort = UShort(data.toShort() and 0xFF)\r\n /**\r\n * Converts this [UByte] value to [UInt].\r\n *\r\n * The resulting `UInt` value represents the same numerical value as this `UByte`.\r\n *\r\n * The least significant 8 bits of the resulting `UInt` value are the same as the bits of this `UByte` value,\r\n * whereas the most significant 24 bits are filled with zeros.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toUInt(): UInt = UInt(data.toInt() and 0xFF)\r\n /**\r\n * Converts this [UByte] value to [ULong].\r\n *\r\n * The resulting `ULong` value represents the same numerical value as this `UByte`.\r\n *\r\n * The least significant 8 bits of the resulting `ULong` value are the same as the bits of this `UByte` value,\r\n * whereas the most significant 56 bits are filled with zeros.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toULong(): ULong = ULong(data.toLong() and 0xFF)\r\n\r\n /**\r\n * Converts this [UByte] value to [Float].\r\n *\r\n * The resulting `Float` value represents the same numerical value as this `UByte`.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toFloat(): Float = this.toInt().toFloat()\r\n /**\r\n * Converts this [UByte] value to [Double].\r\n *\r\n * The resulting `Double` value represents the same numerical value as this `UByte`.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toDouble(): Double = this.toInt().toDouble()\r\n\r\n public override fun toString(): String = toInt().toString()\r\n\r\n}\r\n\r\n/**\r\n * Converts this [Byte] value to [UByte].\r\n *\r\n * If this value is positive, the resulting `UByte` value represents the same numerical value as this `Byte`.\r\n *\r\n * The resulting `UByte` value has the same binary representation as this `Byte` value.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Byte.toUByte(): UByte = UByte(this)\r\n/**\r\n * Converts this [Short] value to [UByte].\r\n *\r\n * If this value is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\r\n * the same numerical value as this `Short`.\r\n *\r\n * The resulting `UByte` value is represented by the least significant 8 bits of this `Short` value.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Short.toUByte(): UByte = UByte(this.toByte())\r\n\r\n/**\r\n * Converts this [Int] value to [UByte].\r\n *\r\n * If this value is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\r\n * the same numerical value as this `Int`.\r\n *\r\n * The resulting `UByte` value is represented by the least significant 8 bits of this `Int` value.\r\n

*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Int.toUByte(): UByte = UByte(this.toByte())\r\n/**\r\n * Converts this [Long] value to [UByte].\r\n *\r\n * If this value is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\r\n * the same numerical value as this `Long`.\r\n *\r\n * The resulting `UByte` value is represented by the least significant 8 bits of this `Long` value.\r\n
/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Long.toUByte(): UByte = UByte(this.toByte())\r\n","/\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// Auto-generated file. DO NOT EDIT!\r\n\r\npackage kotlin\r\n\r\nimport kotlin.experimental.*\r\n\r\n@Suppress(\"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS\")\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic inline class UInt @PublishedApi internal constructor(@PublishedApi internal val data: Int) : Comparable<UInt> {\r\n\r\n   companion object {\r\n   /**\r\n   * A constant holding the minimum value an instance of UInt can have.\r\n   */\r\n   public const val MIN_VALUE: UInt = UInt(0)\r\n\r\n   /**\r\n   * A constant holding the maximum value an instance of UInt can have.\r\n   */\r\n   public const val MAX_VALUE: UInt = UInt(-1)\r\n\r\n   /**\r\n   * The number of bytes used to represent an instance of UInt in a binary form.\r\n   */\r\n   public const val SIZE_BYTES: Int = 4\r\n\r\n   /**\r\n   * The number of bits used to represent an instance of UInt in a binary form.\r\n   */\r\n   public const val SIZE_BITS: Int = 32\r\n   }\r\n\r\n   /**\r\n   * Compares this value with the specified value for order.\r\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\r\n   * or a positive number if it's greater than other.\r\n   */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun compareTo(other: UByte): Int = this.compareTo(other.toUInt())\r\n\r\n   /**\r\n   * Compares this value with the specified value for order.\r\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\r\n   * or a positive number if it's greater than other.\r\n   */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun compareTo(other: UShort): Int = this.compareTo(other.toUInt())\r\n\r\n   /**\r\n   * Compares this value with the specified value for order.\r\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\r\n   * or a positive number if it's greater than other.\r\n   */\r\n   @kotlin.internal.InlineOnly\r\n   @Suppress(\"OVERRIDE_BY_INLINE\")\r\n   public override inline operator fun compareTo(other: UInt): Int = uintCompare(this.data, other.data)\r\n\r\n   /**\r\n   * Compares this value with the specified value for order.\r\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\r\n   * or a positive number if it's greater than other.\r\n   */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun compareTo(other: ULong): Int = this.toULong().compareTo(other)\r\n\r\n\r\n   /** Adds the other value to this value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun plus(other: UByte): UInt = this.plus(other.toUInt())\r\n\r\n   /** Adds the other value to this value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun plus(other: UShort): UInt = this.plus(other.toUInt())\r\n\r\n   /** Adds the other value to this value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun plus(other: UInt): UInt = UInt(this.data.plus(other.data))\r\n\r\n   /** Adds the other value to this value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)\r\n\r\n\r\n   /** Subtracts the other value from this value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun minus(other: UByte): UInt = this.minus(other.toUInt())\r\n\r\n   /** Subtracts the other value from this value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun minus(other: UShort): UInt = this.minus(other.toUInt())\r\n\r\n   /** Subtracts the other value from this value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun minus(other: UInt): UInt = UInt(this.data.minus(other.data))\r\n\r\n   /** Subtracts the other value from this value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun minus(other: ULong): ULong = this.toULong().minus(other)\r\n\r\n\r\n   /** Multiplies this value by the other value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun times(other: UByte): UInt =

this.times(other.toUInt())\r\n   /** Multiplies this value by the other value. */\r\n   @kotlin.internal.InlineOnly\r\n public inline operator fun times(other: UShort): UInt = this.times(other.toUInt())\r\n   /** Multiplies this value by the other value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun times(other: UInt): UInt = UInt(this.data.times(other.data))\r\n   /** Multiplies this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n   public inline operator fun times(other: ULong): ULong = this.toULong().times(other)\r\n\r\n   /** Divides this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n   public inline operator fun div(other: UByte): UInt = this.div(other.toUInt())\r\n /** Divides this value by the other value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun div(other: UShort): UInt = this.div(other.toUInt())\r\n   /** Divides this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n   public inline operator fun div(other: UInt): UInt = uintDivide(this, other)\r\n   /** Divides this value by the other value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun div(other: ULong): ULong = this.toULong().div(other)\r\n\r\n   /** Calculates the remainder of dividing this value by the other value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun rem(other: UByte): UInt = this.rem(other.toUInt())\r\n   /** Calculates the remainder of dividing this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n   public inline operator fun rem(other: UShort): UInt = this.rem(other.toUInt())\r\n /** Calculates the remainder of dividing this value by the other value. */\r\n   @kotlin.internal.InlineOnly\r\n public inline operator fun rem(other: UInt): UInt = uintRemainder(this, other)\r\n   /** Calculates the remainder of dividing this value by the other value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)\r\n\r\n   /** Increments this value. */\r\n @kotlin.internal.InlineOnly\r\n   public inline operator fun inc(): UInt = UInt(data.inc())\r\n   /** Decrements this value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun dec(): UInt = UInt(data.dec())\r\n\r\n   /** Creates a range from this value to the specified [other] value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun rangeTo(other: UInt): UIntRange = UIntRange(this, other)\r\n\r\n   /** Shifts this value left by the [bitCount] number of bits. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline infix fun shl(bitCount: Int): UInt = UInt(data shl bitCount)\r\n   /** Shifts this value right by the [bitCount] number of bits, filling the leftmost bits with zeros. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline infix fun shr(bitCount: Int): UInt = UInt(data ushr bitCount)\r\n   /** Performs a bitwise AND operation between the two values. */\r\n @kotlin.internal.InlineOnly\r\n   public inline infix fun and(other: UInt): UInt = UInt(this.data and other.data)\r\n /** Performs a bitwise OR operation between the two values. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline infix fun or(other: UInt): UInt = UInt(this.data or other.data)\r\n   /** Performs a bitwise XOR operation between the two values. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline infix fun xor(other: UInt): UInt = UInt(this.data xor other.data)\r\n   /** Inverts the bits in this value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline fun inv(): UInt = UInt(data.inv())\r\n\r\n   /**\r\n   * Converts this [UInt] value to [Byte].\r\n   *\r\n   * If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\r\n   * the same numerical value as this `UInt`.\r\n   *\r\n   * The resulting `Byte` value is represented by the least significant 8 bits of this `UInt` value.\r\n   * Note that the resulting `Byte` value may be negative.\r\n   */\r\n @kotlin.internal.InlineOnly\r\n   public inline fun toByte(): Byte = data.toByte()\r\n   /**\r\n   * Converts this [UInt] value to [Short].\r\n   *\r\n   * If this value is less than or equals to [Short.MAX_VALUE], the resulting `Short` value represents\r\n   * the same numerical value as this `UInt`.\r\n   *\r\n   * The resulting `Short` value is represented by the least significant 16 bits of this `UInt` value.\r\n   * Note that the resulting `Short` value may be negative.\r\n   */\r\n   @kotlin.internal.InlineOnly\r\n   public inline fun toShort(): Short = data.toShort()\r\n   /**\r\n   * Converts this [UInt] value to [Int].\r\n   *\r\n   * If this value is less than or equals to [Int.MAX_VALUE], the resulting `Int` value represents\r\n   * the same numerical value as this `UInt`. Otherwise the result is negative.\r\n   *\r\n   * The resulting `Int` value has the same binary representation as this `UInt` value.\r\n   */\r\n   @kotlin.internal.InlineOnly\r\n   public inline fun toInt(): Int = data\r\n   /**\r\n   * Converts this [UInt] value to [Long].\r\n   *\r\n   * The resulting `Long` value represents the same numerical value as this `UInt`.\r\n   *\r\n   * The least significant 32 bits of the resulting `Long` value are the same as the bits of this `UInt` value,\r\n   * whereas the most significant 32 bits are filled with zeros.\r\n   */\r\n

@kotlin.internal.InlineOnly\r\n public inline fun toLong(): Long = data.toLong() and 0xFFFF_FFFF\r\n\r\n /**\r\n * Converts this [UInt] value to [UByte].\r\n *\r\n * If this value is less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\r\n * the same numerical value as this `UInt`.\r\n *\r\n * The resulting `UByte` value is represented by the least significant 8 bits of this `UInt` value.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toUByte(): UByte = data.toUByte()\r\n /**\r\n * Converts this [UInt] value to [UShort].\r\n *\r\n * If this value is less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents\r\n * the same numerical value as this `UInt`.\r\n *\r\n * The resulting `UShort` value is represented by the least significant 16 bits of this `UInt` value.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toUShort(): UShort = data.toUShort()\r\n /** Returns this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toUInt(): UInt = this\r\n /**\r\n * Converts this [UInt] value to [ULong].\r\n *\r\n * The resulting `ULong` value represents the same numerical value as this `UInt`.\r\n *\r\n * The least significant 32 bits of the resulting `ULong` value are the same as the bits of this `UInt` value,\r\n * whereas the most significant 32 bits are filled with zeros.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toULong(): ULong = ULong(data.toLong() and 0xFFFF_FFFF)\r\n\r\n /**\r\n * Converts this [UInt] value to [Float].\r\n *\r\n * The resulting value is the closest `Float` to this `UInt` value.\r\n * In case when this `UInt` value is exactly between two `Float`s,\r\n * the one with zero at least significant bit of mantissa is selected.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toFloat(): Float = this.toDouble().toFloat()\r\n /**\r\n * Converts this [UInt] value to [Double].\r\n *\r\n * The resulting `Double` value represents the same numerical value as this `UInt`.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toDouble(): Double = uintToDouble(data)\r\n\r\n public override fun toString(): String = toLong().toString()\r\n\r\n}\r\n\r\n/**\r\n * Converts this [Byte] value to [UInt].\r\n *\r\n * If this value is positive, the resulting `UInt` value represents the same numerical value as this `Byte`.\r\n *\r\n * The least significant 8 bits of the resulting `UInt` value are the same as the bits of this `Byte` value,\r\n * whereas the most significant 24 bits are filled with the sign bit of this value.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Byte.toUInt(): UInt = UInt(this.toInt())\r\n/**\r\n * Converts this [Short] value to [UInt].\r\n *\r\n * If this value is positive, the resulting `UInt` value represents the same numerical value as this `Short`.\r\n *\r\n * The least significant 16 bits of the resulting `UInt` value are the same as the bits of this `Short` value,\r\n * whereas the most significant 16 bits are filled with the sign bit of this value.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Short.toUInt(): UInt = UInt(this.toInt())\r\n/**\r\n * Converts this [Int] value to [UInt].\r\n *\r\n * If this value is positive, the resulting `UInt` value represents the same numerical value as this `Int`.\r\n *\r\n * The resulting `UInt` value has the same binary representation as this `Int` value.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Int.toUInt(): UInt = UInt(this)\r\n/**\r\n * Converts this [Long] value to [UInt].\r\n *\r\n * If this value is positive and less than or equals to [UInt.MAX_VALUE], the resulting `UInt` value represents\r\n * the same numerical value as this `Long`.\r\n *\r\n * The resulting `UInt` value is represented by the least significant 32 bits of this `Long` value.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Long.toUInt(): UInt = UInt(this.toInt())\r\n\r\n/**\r\n * Converts this [Float] value to [UInt].\r\n *\r\n * The fractional part, if any, is rounded down.\r\n * Returns zero if this `Float` value is negative or `NaN`, [UInt.MAX_VALUE] if it's bigger than `UInt.MAX_VALUE`.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Float.toUInt(): UInt = doubleToUInt(this.toDouble())\r\n/**\r\n * Converts this [Double] value to [UInt].\r\n *\r\n * The fractional part, if any, is rounded down.\r\n * Returns zero if this `Double` value is negative or `NaN`, [UInt.MAX_VALUE] if it's bigger than `UInt.MAX_VALUE`.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Double.toUInt(): UInt = doubleToUInt(this)\r\n","/*\r\n * 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Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// Auto-generated file. DO NOT EDIT!\r\n\r\npackage kotlin\r\n\r\nimport kotlin.experimental.*\r\n\r\n@Suppress(\"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS\")\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic inline class UShort @PublishedApi internal constructor(@PublishedApi internal val data: Short) : Comparable<UShort> {\r\n\r\n   companion object {\r\n   /**\r\n   * A constant holding the minimum value an instance of UShort can have.\r\n   */\r\n   public const val MIN_VALUE: UShort = UShort(0)\r\n\r\n   /**\r\n   * A constant holding the maximum value an instance of UShort can have.\r\n   */\r\n   public const val MAX_VALUE: UShort = UShort(-1)\r\n\r\n   /**\r\n   * The number of bytes used to represent an instance of UShort in a binary form.\r\n   */\r\n   public const val SIZE_BYTES: Int = 2\r\n\r\n   /**\r\n   * The number of bits used to represent an instance of UShort in a binary form.\r\n   */\r\n   public const val SIZE_BITS: Int = 16\r\n   }\r\n\r\n   /**\r\n   * Compares this value with the specified value for order.\r\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\r\n   * or a positive number if it's greater than other.\r\n   */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun compareTo(other: UByte): Int = this.toInt().compareTo(other.toInt())\r\n\r\n   /**\r\n   * Compares this value with the specified value for order.\r\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\r\n   * or a positive number if it's greater than other.\r\n   */\r\n   @kotlin.internal.InlineOnly\r\n   @Suppress(\"OVERRIDE_BY_INLINE\")\r\n   public override inline operator fun compareTo(other: UShort): Int = this.toInt().compareTo(other.toInt())\r\n\r\n   /**\r\n   * Compares this value with the specified value for order.\r\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\r\n   * or a positive number if it's greater than other.\r\n   */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun compareTo(other: UInt): Int = this.toUInt().compareTo(other)\r\n\r\n   /**\r\n   * Compares this value with the specified value for order.\r\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\r\n   * or a positive number if it's greater than other.\r\n   */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun compareTo(other: ULong): Int = this.toULong().compareTo(other)\r\n\r\n   /** Adds the other value to this value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun plus(other: UByte): UInt = this.toUInt().plus(other.toUInt())\r\n\r\n   /** Adds the other value to this value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun plus(other: UShort): UInt = this.toUInt().plus(other.toUInt())\r\n\r\n   /** Adds the other value to this value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun plus(other: UInt): UInt = this.toUInt().plus(other)\r\n\r\n   /** Adds the other value to this value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)\r\n\r\n   /** Subtracts the other value from this value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun minus(other: UByte): UInt = this.toUInt().minus(other.toUInt())\r\n\r\n   /** Subtracts the other value from this value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun minus(other: UShort): UInt = this.toUInt().minus(other.toUInt())\r\n\r\n   /** Subtracts the other value from this value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun minus(other: UInt): UInt = this.toUInt().minus(other)\r\n\r\n   /** Subtracts the other value from this value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun minus(other: ULong): ULong = this.toULong().minus(other)\r\n\r\n\r\n   /** Multiplies this value by the other value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun times(other: UByte): UInt = this.toUInt().times(other.toUInt())\r\n\r\n   /** Multiplies this value by the other value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun times(other: UShort): UInt = this.toUInt().times(other.toUInt())\r\n\r\n   /** Multiplies this value by the other value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun times(other: UInt): UInt = this.toUInt().times(other)\r\n\r\n   /** Multiplies this value by the other value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun times(other: ULong): ULong = this.toULong().times(other)\r\n\r\n\r\n   /** Divides this value by the other value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun div(other: UByte): UInt =

this.toUInt().div(other.toUInt())\r\n   /** Divides this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n   public inline operator fun div(other: UShort): UInt = this.toUInt().div(other.toUInt())\r\n   /** Divides this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n   public inline operator fun div(other: UInt): UInt = this.toUInt().div(other)\r\n   /** Divides this value by the other value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun div(other: ULong): ULong = this.toULong().div(other)\r\n\r\n   /** Calculates the remainder of dividing this value by the other value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun rem(other: UByte): UInt = this.toUInt().rem(other.toUInt())\r\n   /** Calculates the remainder of dividing this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n   public inline operator fun rem(other: UShort): UInt = this.toUInt().rem(other.toUInt())\r\n   /** Calculates the remainder of dividing this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n   public inline operator fun rem(other: UInt): UInt = this.toUInt().rem(other)\r\n /** Calculates the remainder of dividing this value by the other value. */\r\n   @kotlin.internal.InlineOnly\r\n public inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)\r\n\r\n   /** Increments this value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun inc(): UShort = UShort(data.inc())\r\n /** Decrements this value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun dec(): UShort = UShort(data.dec())\r\n\r\n   /** Creates a range from this value to the specified [other] value. */\r\n @kotlin.internal.InlineOnly\r\n   public inline operator fun rangeTo(other: UShort): UIntRange = UIntRange(this.toUInt(), other.toUInt())\r\n\r\n   /** Performs a bitwise AND operation between the two values. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline infix fun and(other: UShort): UShort = UShort(this.data and other.data)\r\n   /** Performs a bitwise OR operation between the two values. */\r\n @kotlin.internal.InlineOnly\r\n   public inline infix fun or(other: UShort): UShort = UShort(this.data or other.data)\r\n   /** Performs a bitwise XOR operation between the two values. */\r\n @kotlin.internal.InlineOnly\r\n   public inline infix fun xor(other: UShort): UShort = UShort(this.data xor other.data)\r\n   /** Inverts the bits in this value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline fun inv(): UShort = UShort(data.inv())\r\n\r\n   /**\r\n   * Converts this [UShort] value to [Byte].\r\n   *\r\n   * If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\r\n   * the same numerical value as this `UShort`.\r\n   *\r\n   * The resulting `Byte` value is represented by the least significant 8 bits of this `UShort` value.\r\n   * Note that the resulting `Byte` value may be negative.\r\n   */\r\n @kotlin.internal.InlineOnly\r\n   public inline fun toByte(): Byte = data.toByte()\r\n   /**\r\n   * Converts this [UShort] value to [Short].\r\n   *\r\n   * If this value is less than or equals to [Short.MAX_VALUE], the resulting `Short` value represents\r\n   * the same numerical value as this `UShort`. Otherwise the result is negative.\r\n   *\r\n   * The resulting `Short` value has the same binary representation as this `UShort` value.\r\n   */\r\n @kotlin.internal.InlineOnly\r\n   public inline fun toShort(): Short = data\r\n   /**\r\n   * Converts this [UShort] value to [Int].\r\n   *\r\n   * The resulting `Int` value represents the same numerical value as this `UShort`.\r\n   *\r\n   * The least significant 16 bits of the resulting `Int` value are the same as the bits of this `UShort` value,\r\n   * whereas the most significant 16 bits are filled with zeros.\r\n   */\r\n   @kotlin.internal.InlineOnly\r\n   public inline fun toInt(): Int = data.toInt() and 0xFFFF\r\n   /**\r\n   * Converts this [UShort] value to [Long].\r\n   *\r\n   * The resulting `Long` value represents the same numerical value as this `UShort`.\r\n   *\r\n   * The least significant 16 bits of the resulting `Long` value are the same as the bits of this `UShort` value,\r\n   * whereas the most significant 48 bits are filled with zeros.\r\n   */\r\n   @kotlin.internal.InlineOnly\r\n   public inline fun toLong(): Long = data.toLong() and 0xFFFF\r\n\r\n   /**\r\n   * Converts this [UShort] value to [UByte].\r\n   *\r\n   * If this value is less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\r\n   * the same numerical value as this `UShort`.\r\n   *\r\n   * The resulting `UByte` value is represented by the least significant 8 bits of this `UShort` value.\r\n   */\r\n   @kotlin.internal.InlineOnly\r\n   public inline fun toUByte(): UByte = data.toUByte()\r\n   /** Returns this value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline fun toUShort(): UShort = this\r\n   /**\r\n   * Converts this [UShort] value to [UInt].\r\n   *\r\n   * The resulting `UInt` value represents the same numerical value as this `UShort`.\r\n   *\r\n   * The least significant 16 bits of the resulting `UInt` value are the same as the bits of this `UShort` value,\r\n   * whereas the most significant 16 bits are

filled with zeros.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toUInt(): UInt = UInt(data.toInt() and 0xFFFF)\r\n /**\r\n * Converts this [UShort] value to [ULong].\r\n *\r\n * The resulting `ULong` value represents the same numerical value as this `UShort`.\r\n *\r\n * The least significant 16 bits of the resulting `ULong` value are the same as the bits of this `UShort` value,\r\n * whereas the most significant 48 bits are filled with zeros.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toULong(): ULong = ULong(data.toLong() and 0xFFFF)\r\n\r\n /**\r\n * Converts this [UShort] value to [Float].\r\n *\r\n * The resulting `Float` value represents the same numerical value as this `UShort`.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toFloat(): Float = this.toInt().toFloat()\r\n /**\r\n * Converts this [UShort] value to [Double].\r\n *\r\n * The resulting `Double` value represents the same numerical value as this `UShort`.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toDouble(): Double = this.toInt().toDouble()\r\n\r\n\r\n public override fun toString(): String = toInt().toString()\r\n\r\n\r\n}\r\n\r\n\r\n/**\r\n * Converts this [Byte] value to [UShort].\r\n *\r\n * If this value is positive, the resulting `UShort` value represents the same numerical value as this `Byte`.\r\n *\r\n * The least significant 8 bits of the resulting `UShort` value are the same as the bits of this `Byte` value,\r\n * whereas the most significant 8 bits are filled with the sign bit of this value.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Byte.toUShort(): UShort = UShort(this.toShort())\r\n/**\r\n * Converts this [Short] value to [UShort].\r\n *\r\n * If this value is positive, the resulting `UShort` value represents the same numerical value as this `Short`.\r\n *\r\n * The resulting `UShort` value has the same binary representation as this `Short` value.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Short.toUShort(): UShort = UShort(this)\r\n/**\r\n * Converts this [Int] value to [UShort].\r\n *\r\n * If this value is positive and less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents\r\n * the same numerical value as this `Int`.\r\n *\r\n * The resulting `UShort` value is represented by the least significant 16 bits of this `Int` value.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Int.toUShort(): UShort = UShort(this.toShort())\r\n/**\r\n * Converts this [Long] value to [UShort].\r\n *\r\n * If this value is positive and less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents\r\n * the same numerical value as this `Long`.\r\n *\r\n * The resulting `UShort` value is represented by the least significant 16 bits of this `Long` value.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Long.toUShort(): UShort = UShort(this.toShort())\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// Auto-generated file. DO NOT EDIT!\r\n\r\npackage kotlin.ranges\r\n\r\n/**\r\n * A range of values of type `Char`.\r\n */\r\npublic class CharRange(start: Char, endInclusive: Char) : CharProgression(start, endInclusive, 1), ClosedRange<Char> {\r\n override val start: Char get() = first\r\n override val endInclusive: Char get() = last\r\n\r\n override fun contains(value: Char): Boolean = first <= value && value <= last\r\n\r\n override fun isEmpty(): Boolean = first > last\r\n\r\n override fun equals(other: Any?): Boolean =\r\n other is CharRange && (isEmpty() && other.isEmpty() ||\r\n first == other.first && last == other.last)\r\n\r\n override fun hashCode(): Int =\r\n if (isEmpty()) -1 else (31 * first.toInt() + last.toInt())\r\n\r\n override fun toString(): String = \"$first..$last\"\r\n\r\n companion object {\r\n /** An empty range of values of type Char. */\r\n public val EMPTY: CharRange = CharRange(1.toChar(), 0.toChar())\r\n }\r\n}\r\n\r\n/**\r\n * A range of values of type `Int`.\r\n */\r\npublic class IntRange(start: Int, endInclusive: Int) : IntProgression(start, endInclusive, 1), ClosedRange<Int> {\r\n override val start: Int get() = first\r\n override val endInclusive: Int get() = last\r\n\r\n override fun contains(value: Int): Boolean = first <= value && value <= last\r\n\r\n override fun isEmpty(): Boolean = first > last\r\n\r\n override fun equals(other: Any?): Boolean =\r\n other is IntRange && (isEmpty() && other.isEmpty() ||\r\n first == other.first && last == other.last)\r\n\r\n override fun hashCode(): Int =\r\n if (isEmpty()) -1 else (31 * first + last)\r\n\r\n override fun toString(): String = \"$first..$last\"\r\n\r\n companion object {\r\n /** An empty range of values of type Int. */\r\n public val EMPTY: IntRange = IntRange(1, 0)\r\n }\r\n}\r\n\r\n/**\r\n * A range of values

of type `Long`.\r\n */\r\npublic class LongRange(start: Long, endInclusive: Long) : LongProgression(start, endInclusive, 1), ClosedRange<Long> {\r\n override val start: Long get() = first\r\n override val endInclusive: Long get() = last\r\n\r\n override fun contains(value: Long): Boolean = first <= value && value <= last\r\n\r\n override fun isEmpty(): Boolean = first > last\r\n\r\n override fun equals(other: Any?): Boolean =\r\n other is LongRange && (isEmpty() && other.isEmpty() ||\r\n first == other.first && last == other.last)\r\n\r\n override fun hashCode(): Int =\r\n if (isEmpty()) -1 else (31 * (first xor (first ushr 32)) + (last xor (last ushr 32))).toInt()\r\n\r\n override fun toString(): String = \"$first..$last\"\r\n\r\n companion object {\r\n /** An empty range of values of type Long. */\r\n public val EMPTY: LongRange = LongRange(1, 0)\r\n }\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"CollectionsKt\")\r\n\r\npackage kotlin.collections\r\n\r\nimport kotlin.contracts.*\r\n\r\ninternal object EmptyIterator : ListIterator<Nothing> {\r\n override fun hasNext(): Boolean = false\r\n override fun hasPrevious(): Boolean = false\r\n override fun nextIndex(): Int = 0\r\n override fun previousIndex(): Int = -1\r\n override fun next(): Nothing = throw NoSuchElementException()\r\n override fun previous(): Nothing = throw NoSuchElementException()\r\n}\r\n\r\ninternal object EmptyList : List<Nothing>, Serializable, RandomAccess {\r\n private const val serialVersionUID: Long = -7390468764508069838L\r\n\r\n override fun equals(other: Any?): Boolean = other is List<*> && other.isEmpty()\r\n override fun hashCode(): Int = 1\r\n override fun toString(): String = \"[]\"\r\n\r\n override val size: Int get() = 0\r\n override fun isEmpty(): Boolean = true\r\n override fun contains(element: Nothing): Boolean = false\r\n override fun containsAll(elements: Collection<Nothing>): Boolean = elements.isEmpty()\r\n\r\n override fun get(index: Int): Nothing = throw IndexOutOfBoundsException(\"Empty list doesn't contain element at index $index.\")\r\n override fun indexOf(element: Nothing): Int = -1\r\n override fun lastIndexOf(element: Nothing): Int = -1\r\n\r\n override fun iterator(): Iterator<Nothing> = EmptyIterator\r\n override fun listIterator(): ListIterator<Nothing> = EmptyIterator\r\n override fun listIterator(index: Int): ListIterator<Nothing> {\r\n if (index != 0) throw IndexOutOfBoundsException(\"Index: $index\")\r\n return EmptyIterator\r\n }\r\n\r\n override fun subList(fromIndex: Int, toIndex: Int): List<Nothing> {\r\n if (fromIndex == 0 && toIndex == 0) return this\r\n throw IndexOutOfBoundsException(\"fromIndex: $fromIndex, toIndex: $toIndex\")\r\n }\r\n\r\n private fun readResolve(): Any = EmptyList\r\n}\r\n\r\ninternal fun <T> Array<out T>.asCollection(): Collection<T> = ArrayAsCollection(this, isVarargs = false)\r\n\r\nprivate class ArrayAsCollection<T>(val values: Array<out T>, val isVarargs: Boolean) : Collection<T> {\r\n override val size: Int get() = values.size\r\n override fun isEmpty(): Boolean = values.isEmpty()\r\n override fun contains(element: T): Boolean = values.contains(element)\r\n override fun containsAll(elements: Collection<T>): Boolean = elements.all { contains(it) }\r\n override fun iterator(): Iterator<T> = values.iterator()\r\n // override hidden toArray implementation to prevent copying of values array\r\n public fun toArray(): Array<out Any?> = values.copyToArrayOfAny(isVarargs)\r\n}\r\n\r\n/**\r\n * Returns an empty read-only list. The returned list is serializable (JVM).\r\n * @sample samples.collections.Collections.Lists.emptyReadOnlyList\r\n */\r\npublic fun <T> emptyList(): List<T> = EmptyList\r\n\r\n/**\r\n * Returns a new read-only list of given elements. The returned list is serializable (JVM).\r\n * @sample samples.collections.Collections.Lists.readOnlyList\r\n */\r\npublic fun <T> listOf(vararg elements: T): List<T> = if (elements.size > 0) elements.asList() else emptyList()\r\n\r\n/**\r\n * Returns an empty read-only list. The returned list is serializable (JVM).\r\n * @sample samples.collections.Collections.Lists.emptyReadOnlyList\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> listOf(): List<T> = emptyList()\r\n\r\n/**\r\n * Returns an empty new [MutableList].\r\n * @sample samples.collections.Collections.Lists.emptyMutableList\r\n */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> mutableListOf(): MutableList<T> = ArrayList()\r\n\r\n/**\r\n * Returns an empty new [ArrayList].\r\n * @sample samples.collections.Collections.Lists.emptyArrayList\r\n */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> arrayListOf(): ArrayList<T> =

ArrayList()\r\n\r\n/**\r\n * Returns a new [MutableList] with the given elements.\r\n * @sample samples.collections.Collections.Lists.mutableList\r\n */\r\npublic fun <T> mutableListOf(vararg elements: T): MutableList<T> =\r\n   if (elements.size == 0) ArrayList() else ArrayList(ArrayAsCollection(elements, isVarargs = true))\r\n\r\n/**\r\n * Returns a new [ArrayList] with the given elements.\r\n * @sample samples.collections.Collections.Lists.arrayList\r\n */\r\npublic fun <T> arrayListOf(vararg elements: T): ArrayList<T> =\r\n   if (elements.size == 0) ArrayList() else ArrayList(ArrayAsCollection(elements, isVarargs = true))\r\n\r\n/**\r\n * Returns a new read-only list either of single given element, if it is not null, or empty list if the element is null. The returned list is serializable (JVM).\r\n * @sample samples.collections.Collections.Lists.listOfNotNull\r\n */\r\npublic fun <T : Any> listOfNotNull(element: T?): List<T> = if (element != null) listOf(element) else emptyList()\r\n\r\n/**\r\n * Returns a new read-only list only of those given elements, that are not null. The returned list is serializable (JVM).\r\n * @sample samples.collections.Collections.Lists.listOfNotNull\r\n */\r\npublic fun <T : Any> listOfNotNull(vararg elements: T?): List<T> = elements.filterNotNull()\r\n\r\n/**\r\n * Creates a new read-only list with the specified [size], where each element is calculated by calling the specified\r\n * [init] function.\r\n *\r\n * The function [init] is called for each list element sequentially starting from the first one.\r\n * It should return the value for a list element given its index.\r\n *\r\n * @sample samples.collections.Collections.Lists.readOnlyListFromInitializer\r\n */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> List(size: Int, init: (index: Int) -> T): List<T> = MutableList(size, init)\r\n\r\n/**\r\n * Creates a new mutable list with the specified [size], where each element is calculated by calling the specified\r\n * [init] function.\r\n *\r\n * The function [init] is called for each list element sequentially starting from the first one.\r\n * It should return the value for a list element given its index.\r\n *\r\n * @sample samples.collections.Collections.Lists.mutableListFromInitializer\r\n */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> MutableList(size: Int, init: (index: Int) -> T): MutableList<T> {\r\n   val list = ArrayList<T>(size)\r\n   repeat(size) { index -> list.add(init(index)) }\r\n   return list\r\n}\r\n\r\n/**\r\n * Returns an [IntRange] of the valid indices for this collection.\r\n * @sample samples.collections.Collections.Collections.indicesOfCollection\r\n */\r\npublic val Collection<*>.indices: IntRange\r\n   get() = 0..size - 1\r\n\r\n/**\r\n * Returns the index of the last item in the list or -1 if the list is empty.\r\n *\r\n * @sample samples.collections.Collections.Lists.lastIndexOfList\r\n */\r\npublic val <T> List<T>.lastIndex: Int\r\n   get() = this.size - 1\r\n\r\n/**\r\n * Returns `true` if the collection is not empty.\r\n * @sample samples.collections.Collections.Collections.collectionIsNotEmpty\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> Collection<T>.isNotEmpty(): Boolean = !isEmpty()\r\n\r\n/**\r\n * Returns `true` if this nullable collection is either null or empty.\r\n * @sample samples.collections.Collections.Collections.collectionIsNullOrEmpty\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> Collection<T>?.isNullOrEmpty(): Boolean {\r\n   contract {\r\n   returns(false) implies (this@isNullOrEmpty != null)\r\n   }\r\n\r\n   return this == null || this.isEmpty()\r\n}\r\n\r\n/**\r\n * Returns this Collection if it's not `null` and the empty list otherwise.\r\n * @sample samples.collections.Collections.Collections.collectionOrEmpty\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> Collection<T>?.orEmpty(): Collection<T> = this ?: emptyList()\r\n\r\n/**\r\n * Returns this List if it's not `null` and the empty list otherwise.\r\n * @sample samples.collections.Collections.Lists.listOrEmpty\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> List<T>?.orEmpty(): List<T> = this ?: emptyList()\r\n\r\n/**\r\n * Returns this collection if it's not empty\r\n * or the result of calling [defaultValue] function if the collection is empty.\r\n *\r\n * @sample samples.collections.Collections.Collections.collectionIfEmpty\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : Collection<*>, C : R =\r\n   if (isEmpty()) defaultValue() else this\r\n\r\n\r\n/**\r\n * Checks if all elements in the specified collection are contained in this collection.\r\n *\r\n * Allows to overcome type-safety restriction of `containsAll` that requires to pass a collection of type `Collection<E>`.\r\n * @sample samples.collections.Collections.Collections.collectionContainsAll\r\n */\r\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\") // false warning, extension takes precedence in

some cases\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <@kotlin.internal.OnlyInputTypes T> Collection<T>.containsAll(elements: Collection<T>): Boolean = this.containsAll(elements)\r\n\r\ninternal fun <T> List<T>.optimizeReadOnlyList() = when (size) {\r\n 0 -> emptyList()\r\n 1 -> listOf(this[0])\r\n else -> this\r\n}\r\n\r\n/**\r\n * Searches this list or its range for the provided [element] using the binary search algorithm.\r\n * The list is expected to be sorted into ascending order according to the Comparable natural ordering of its elements,\r\n * otherwise the result is undefined.\r\n *\r\n * If the list contains multiple elements equal to the specified [element], there is no guarantee which one will be found.\r\n *\r\n * `null` value is considered to be less than any non-null value.\r\n *\r\n * @return the index of the element, if it is contained in the list within the specified range;\r\n * otherwise, the inverted insertion point `(-insertion point - 1)`.\r\n * The insertion point is defined as the index at which the element should be inserted,\r\n * so that the list (or the specified subrange of list) still remains sorted.\r\n * @sample samples.collections.Collections.Lists.binarySearchOnComparable\r\n * @sample samples.collections.Collections.Lists.binarySearchWithBoundaries\r\n */\r\npublic fun <T : Comparable<T>> List<T?>.binarySearch(element: T?, fromIndex: Int = 0, toIndex: Int = size): Int {\r\n rangeCheck(size, fromIndex, toIndex)\r\n\r\n var low = fromIndex\r\n var high = toIndex - 1\r\n\r\n while (low <= high) {\r\n val mid = (low + high).ushr(1) // safe from overflows\r\n val midVal = get(mid)\r\n val cmp = compareValues(midVal, element)\r\n\r\n if (cmp < 0)\r\n low = mid + 1\r\n else if (cmp > 0)\r\n high = mid - 1\r\n else\r\n return mid // key found\r\n }\r\n return -(low + 1) // key not found\r\n}\r\n\r\n/**\r\n * Searches this list or its range for the provided [element] using the binary search algorithm.\r\n * The list is expected to be sorted into ascending order according to the specified [comparator],\r\n * otherwise the result is undefined.\r\n *\r\n * If the list contains multiple elements equal to the specified [element], there is no guarantee which one will be found.\r\n *\r\n * `null` value is considered to be less than any non-null value.\r\n *\r\n * @return the index of the element, if it is contained in the list within the specified range;\r\n * otherwise, the inverted insertion point `(-insertion point - 1)`.\r\n * The insertion point is defined as the index at which the element should be inserted,\r\n * so that the list (or the specified subrange of list) still remains sorted according to the specified [comparator].\r\n * @sample samples.collections.Collections.Lists.binarySearchWithComparator\r\n */\r\npublic fun <T> List<T>.binarySearch(element: T, comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size): Int {\r\n rangeCheck(size, fromIndex, toIndex)\r\n\r\n var low = fromIndex\r\n var high = toIndex - 1\r\n\r\n while (low <= high) {\r\n val mid = (low + high).ushr(1) // safe from overflows\r\n val midVal = get(mid)\r\n val cmp = comparator.compare(midVal, element)\r\n\r\n if (cmp < 0)\r\n low = mid + 1\r\n else if (cmp > 0)\r\n high = mid - 1\r\n else\r\n return mid // key found\r\n }\r\n return -(low + 1) // key not found\r\n}\r\n\r\n/**\r\n * Searches this list or its range for an element having the key returned by the specified [selector] function\r\n * equal to the provided [key] value using the binary search algorithm.\r\n * The list is expected to be sorted into ascending order according to the Comparable natural ordering of keys of its elements.\r\n * otherwise the result is undefined.\r\n *\r\n * If the list contains multiple elements with the specified [key], there is no guarantee which one will be found.\r\n *\r\n * `null` value is considered to be less than any non-null value.\r\n *\r\n * @return the index of the element with the specified [key], if it is contained in the list within the specified range;\r\n * otherwise, the inverted insertion point `(-insertion point - 1)`.\r\n * The insertion point is defined as the index at which the element should be inserted,\r\n * so that the list (or the specified subrange of list) still remains sorted.\r\n * @sample samples.collections.Collections.Lists.binarySearchByKey\r\n */\r\npublic inline fun <T, K : Comparable<K>> List<T>.binarySearchBy(\r\n key: K?,\r\n fromIndex: Int = 0,\r\n toIndex: Int = size,\r\n crossinline selector: (T) -> K?\r\n): Int =\r\n binarySearch(fromIndex, toIndex) { compareValues(selector(it), key) }\r\n\r\n// do not introduce this overload --- too rare\r\n//public fun <T, K> List<T>.binarySearchBy(key: K, comparator: Comparator<K>, fromIndex: Int = 0, toIndex: Int = size(), selector: (T) -> K): Int =\r\n// binarySearch(fromIndex, toIndex) { comparator.compare(selector(it), key) }\r\n\r\n\r\n/**\r\n * Searches this list or its range for an element for which [comparison] function returns zero using the binary search algorithm.\r\n * The list is expected to be sorted into ascending order according to the provided [comparison],\r\n * otherwise the result is undefined.\r\n *\r\n * If the list contains multiple elements for which

[comparison] returns zero, there is no guarantee which one will be found.\r\n *\r\n * @param comparison function that compares an element of the list with the element being searched.\r\n *\r\n * @return the index of the found element, if it is contained in the list within the specified range;\r\n * otherwise, the inverted insertion point `(-insertion point - 1)`.\r\n * The insertion point is defined as the index at which the element should be inserted,\r\n * so that the list (or the specified subrange of list) still remains sorted.\r\n * @sample samples.collections.Collections.Lists.binarySearchWithComparisonFunction\r\n */\r\npublic fun <T> List<T>.binarySearch(fromIndex: Int = 0, toIndex: Int = size, comparison: (T) -> Int): Int {\r\n rangeCheck(size, fromIndex, toIndex)\r\n\r\n var low = fromIndex\r\n var high = toIndex - 1\r\n\r\n while (low <= high) {\r\n val mid = (low + high).ushr(1) // safe from overflows\r\n val midVal = get(mid)\r\n val cmp = comparison(midVal)\r\n\r\n if (cmp < 0)\r\n low = mid + 1\r\n else if (cmp > 0)\r\n high = mid - 1\r\n else\r\n return mid // key found\r\n }\r\n return -(low + 1) // key not found\r\n}\r\n\r\n/**\r\n * Checks that `from` and `to` are in\r\n * the range of [0..size] and throws an appropriate exception, if they aren't.\r\n */\r\nprivate fun rangeCheck(size: Int, fromIndex: Int, toIndex: Int) {\r\n when {\r\n fromIndex > toIndex -> throw IllegalArgumentException(\"fromIndex ($fromIndex) is greater than toIndex ($toIndex).\")\r\n fromIndex < 0 -> throw IndexOutOfBoundsException(\"fromIndex ($fromIndex) is less than zero.\")\r\n toIndex > size -> throw IndexOutOfBoundsException(\"toIndex ($toIndex) is greater than size ($size).\")\r\n }\r\n}\r\n\r\n\r\n@PublishedApi\r\n@SinceKotlin(\"1.3\")\r\ninternal expect fun checkIndexOverflow(index: Int): Int\r\n\r\n@PublishedApi\r\n@SinceKotlin(\"1.3\")\r\ninternal expect fun checkCountOverflow(count: Int): Int\r\n\r\n\r\n@PublishedApi\r\n@SinceKotlin(\"1.3\")\r\ninternal fun throwIndexOverflow() { throw ArithmeticException(\"Index overflow has happened.\") }\r\n\r\n@PublishedApi\r\n@SinceKotlin(\"1.3\")\r\ninternal fun throwCountOverflow() { throw ArithmeticException(\"Count overflow has happened.\") }\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"MapsKt\")\r\n\r\n\npackage kotlin.collections\r\n\r\n\nimport kotlin.contracts.*\r\n\r\n\nprivate object EmptyMap : Map<Any?, Nothing>, Serializable {\r\n private const val serialVersionUID: Long = 8246714829545688274\r\n\r\n override fun equals(other: Any?): Boolean = other is Map<*, *> && other.isEmpty()\r\n override fun hashCode(): Int = 0\r\n override fun toString(): String = \"{}\"\r\n\r\n override val size: Int get() = 0\r\n override fun isEmpty(): Boolean = true\r\n\r\n override fun containsKey(key: Any?): Boolean = false\r\n override fun containsValue(value: Nothing): Boolean = false\r\n override fun get(key: Any?): Nothing? = null\r\n override val entries: Set<Map.Entry<Any?, Nothing>> get() = EmptySet\r\n override val keys: Set<Any?> get() = EmptySet\r\n override val values: Collection<Nothing> get() = EmptyList\r\n\r\n private fun readResolve(): Any = EmptyMap\r\n}\r\n\r\n/**\r\n * Returns an empty read-only map of specified type.\r\n *\r\n * The returned map is serializable (JVM).\r\n * @sample samples.collections.Maps.Instantiation.emptyReadOnlyMap\r\n */\r\npublic fun <K, V> emptyMap(): Map<K, V> = @Suppress(\"UNCHECKED_CAST\") (EmptyMap as Map<K, V>)\r\n\r\n/**\r\n * Returns a new read-only map with the specified contents, given as a list of pairs\r\n * where the first value is the key and the second is the value.\r\n *\r\n * If multiple pairs have the same key, the resulting map will contain the value from the last of those pairs.\r\n *\r\n * Entries of the map are iterated in the order they were specified.\r\n *\r\n * The returned map is serializable (JVM).\r\n *\r\n * @sample samples.collections.Maps.Instantiation.mapFromPairs\r\n */\r\npublic fun <K, V> mapOf(vararg pairs: Pair<K, V>): Map<K, V> =\r\n if (pairs.size > 0) pairs.toMap(LinkedHashMap(mapCapacity(pairs.size))) else emptyMap()\r\n\r\n/**\r\n * Returns an empty read-only map.\r\n *\r\n * The returned map is serializable (JVM).\r\n * @sample samples.collections.Maps.Instantiation.emptyReadOnlyMap\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <K, V> mapOf(): Map<K, V> = emptyMap()\r\n\r\n/**\r\n * Returns an empty new [MutableMap].\r\n *\r\n * The returned map preserves the entry iteration order.\r\n * @sample samples.collections.Maps.Instantiation.emptyMutableMap\r\n */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <K, V> mutableMapOf():

MutableMap<K, V> = LinkedHashMap()\r\n\r\n/**\r\n * Returns a new [MutableMap] with the specified contents, given as a list of pairs\r\n * where the first component is the key and the second is the value.\r\n *\r\n * If multiple pairs have the same key, the resulting map will contain the value from the last of those pairs.\r\n *\r\n * Entries of the map are iterated in the order they were specified.\r\n *\r\n * @sample samples.collections.Maps.Instantiation.mutableMapFromPairs\r\n * @sample samples.collections.Maps.Instantiation.emptyMutableMap\r\n */\r\npublic fun <K, V> mutableMapOf(vararg pairs: Pair<K, V>): MutableMap<K, V> =\r\n   LinkedHashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs) }\r\n\r\n/**\r\n * Returns an empty new [HashMap].\r\n */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <K, V> hashMapOf(): HashMap<K, V> = HashMap<K, V>()\r\n\r\n/**\r\n * Returns a new [HashMap] with the specified contents, given as a list of pairs\r\n * where the first component is the key and the second is the value.\r\n *\r\n * @sample samples.collections.Maps.Instantiation.hashMapFromPairs\r\n */\r\npublic fun <K, V> hashMapOf(vararg pairs: Pair<K, V>): HashMap<K, V> = HashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs) }\r\n\r\n/**\r\n * Returns an empty new [LinkedHashMap].\r\n */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <K, V> linkedMapOf(): LinkedHashMap<K, V> = LinkedHashMap<K, V>()\r\n\r\n/**\r\n * Returns a new [LinkedHashMap] with the specified contents, given as a list of pairs\r\n * where the first component is the key and the second is the value.\r\n *\r\n * If multiple pairs have the same key, the resulting map will contain the value from the last of those pairs.\r\n *\r\n * Entries of the map are iterated in the order they were specified.\r\n *\r\n * @sample samples.collections.Maps.Instantiation.linkedMapFromPairs\r\n */\r\npublic fun <K, V> linkedMapOf(vararg pairs: Pair<K, V>): LinkedHashMap<K, V> = pairs.toMap(LinkedHashMap(mapCapacity(pairs.size)))\r\n\r\n/**\r\n * Calculate the initial capacity of a map, based on Guava's com.google.common.collect.Maps approach. This is equivalent\r\n * to the Collection constructor for HashSet, (c.size()/.75f) + 1, but provides further optimisations for very small or\r\n * very large sizes, allows support non-collection classes, and provides consistency for all map based class construction.\r\n */\r\n@PublishedApi\r\ninternal fun mapCapacity(expectedSize: Int): Int {\r\n   if (expectedSize < 3) {\r\n   return expectedSize + 1\r\n   }\r\n   if (expectedSize < INT_MAX_POWER_OF_TWO) {\r\n   return expectedSize + expectedSize / 3\r\n   }\r\n   return Int.MAX_VALUE // any large value\r\n}\r\n\r\nprivate const val INT_MAX_POWER_OF_TWO: Int = Int.MAX_VALUE / 2 + 1\r\n\r\n/** Returns `true` if this map is not empty. */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <K, V> Map<out K, V>.isNotEmpty(): Boolean = !isEmpty()\r\n\r\n/**\r\n * Returns `true` if this nullable map is either null or empty.\r\n * @sample samples.collections.Maps.Usage.mapIsNullOrEmpty\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <K, V> Map<out K, V>?.isNullOrEmpty(): Boolean {\r\n   contract {\r\n   returns(false) implies (this@isNullOrEmpty != null)\r\n   }\r\n\r\n   return this == null || isEmpty()\r\n}\r\n\r\n/**\r\n * Returns the [Map] if its not `null`, or the empty [Map] otherwise.\r\n *\r\n * @sample samples.collections.Maps.Usage.mapOrEmpty\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <K, V> Map<K, V>?.orEmpty(): Map<K, V> = this ?: emptyMap()\r\n\r\n/**\r\n * Returns this map if it's not empty\r\n * or the result of calling [defaultValue] function if the map is empty.\r\n *\r\n * @sample samples.collections.Maps.Usage.mapIfEmpty\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <M, R> M.ifEmpty(defaultValue: () -> R): R where M : Map<*, *>, M : R =\r\n   if (isEmpty()) defaultValue() else this\r\n\r\n/**\r\n * Checks if the map contains the given key.\r\n *\r\n * This method allows to use the `x in map` syntax for checking whether an object is contained in the map.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <@kotlin.internal.OnlyInputTypes K, V> Map<out K, V>.contains(key: K): Boolean = containsKey(key)\r\n\r\n/**\r\n * Returns the value corresponding to the given [key], or `null` if such a key is not present in the map.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <@kotlin.internal.OnlyInputTypes K, V> Map<out K, V>.get(key: K): V? =\r\n   @Suppress(\"UNCHECKED_CAST\") (this as Map<K, V>).get(key)\r\n\r\n/**\r\n * Allows to use the index operator for storing values in a mutable map.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <K,

V> MutableMap<K, V>.set(key: K, value: V): Unit {\r\n   put(key, value)\r\n}\r\n\r\n/**\r\n * Returns `true` if the map contains the specified [key].\r\n *\r\n * Allows to overcome type-safety restriction of `containsKey` that requires to pass a key of type `K`.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <@kotlin.internal.OnlyInputTypes K> Map<out K, *>.containsKey(key: K): Boolean =\r\n @Suppress(\"UNCHECKED_CAST\") (this as Map<K, *>).containsKey(key)\r\n\r\n/**\r\n * Returns `true` if the map maps one or more keys to the specified [value].\r\n *\r\n * Allows to overcome type-safety restriction of `containsValue` that requires to pass a value of type `V`.\r\n *\r\n * @sample samples.collections.Maps.Usage.containsValue\r\n */\r\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\") // false warning, extension takes precedence in some cases\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <K, @kotlin.internal.OnlyInputTypes V> Map<K, V>.containsValue(value: V): Boolean = this.containsValue(value)\r\n\r\n/**\r\n * Removes the specified key and its corresponding value from this map.\r\n *\r\n * @return the previous value associated with the key, or `null` if the key was not present in the map.\r\n\r\n * Allows to overcome type-safety restriction of `remove` that requires to pass a key of type `K`.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <@kotlin.internal.OnlyInputTypes K, V> MutableMap<out K, V>.remove(key: K): V? =\r\n   @Suppress(\"UNCHECKED_CAST\") (this as MutableMap<K, V>).remove(key)\r\n\r\n/**\r\n * Returns the key component of the map entry.\r\n *\r\n * This method allows to use destructuring declarations when working with maps, for example:\r\n * ```\r\n * for ((key, value) in map) {\r\n *   // do something with the key and the value\r\n * }\r\n * ```\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <K, V> Map.Entry<K, V>.component1(): K = key\r\n\r\n/**\r\n * Returns the value component of the map entry.\r\n *\r\n * This method allows to use destructuring declarations when working with maps, for example:\r\n * ```\r\n * for ((key, value) in map) {\r\n *   // do something with the key and the value\r\n * }\r\n * ```\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <K, V> Map.Entry<K, V>.component2(): V = value\r\n\r\n/**\r\n * Converts entry to [Pair] with key being first component and value being second.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <K, V> Map.Entry<K, V>.toPair(): Pair<K, V> = Pair(key, value)\r\n\r\n/**\r\n * Returns the value for the given key, or the result of the [defaultValue] function if there was no entry for the given key.\r\n *\r\n * @sample samples.collections.Maps.Usage.getOrElse\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <K, V> Map<K, V>.getOrElse(key: K, defaultValue: () -> V): V = get(key) ?: defaultValue()\r\n\r\n\r\ninternal inline fun <K, V> Map<K, V>.getOrElseNullable(key: K, defaultValue: () -> V): V {\r\n   val value = get(key)\r\n   if (value == null && !containsKey(key)) {\r\n   return defaultValue()\r\n   } else {\r\n   @Suppress(\"UNCHECKED_CAST\")\r\n   return value as V\r\n   }\r\n}\r\n\r\n/**\r\n * Returns the value for the given [key] or throws an exception if there is no such key in the map.\r\n *\r\n * If the map was created by [withDefault], resorts to its `defaultValue` provider function\r\n * instead of throwing an exception.\r\n *\r\n * @throws NoSuchElementException when the map doesn't contain a value for the specified key and\r\n * no implicit default value was provided for that map.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic fun <K, V> Map<K, V>.getValue(key: K): V = getOrImplicitDefault(key)\r\n\r\n/**\r\n * Returns the value for the given key. If the key is not found in the map, calls the [defaultValue] function,\r\n * puts its result into the map under the given key and returns it.\r\n *\r\n * Note that the operation is not guaranteed to be atomic if the map is being modified concurrently.\r\n *\r\n * @sample samples.collections.Maps.Usage.getOrPut\r\n */\r\npublic inline fun <K, V> MutableMap<K, V>.getOrPut(key: K, defaultValue: () -> V): V {\r\n   val value = get(key)\r\n   return if (value == null) {\r\n   val answer = defaultValue()\r\n   put(key, answer)\r\n   answer\r\n   } else {\r\n   value\r\n   }\r\n}\r\n\r\n/**\r\n * Returns an [Iterator] over the entries in the [Map].\r\n *\r\n * @sample samples.collections.Maps.Usage.forOverEntries\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <K, V> Map<out K, V>.iterator(): Iterator<Map.Entry<K, V>> = entries.iterator()\r\n\r\n/**\r\n * Returns a [MutableIterator] over the mutable entries in the [MutableMap].\r\n *\r\n */\r\n@kotlin.jvm.JvmName(\"mutableIterator\")\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <K, V> MutableMap<K, V>.iterator(): MutableIterator<MutableMap.MutableEntry<K, V>> = entries.iterator()\r\n\r\n/**\r\n * Populates the given [destination] map with entries having the keys of this map and

the values obtained\r\n * by applying the [transform] function to each entry in this [Map].\r\n */\r\npublic inline fun <K, V, R, M : MutableMap<in K, in R>> Map<out K, V>.mapValuesTo(destination: M, transform: (Map.Entry<K, V>) -> R): M {\r\n return entries.associateByTo(destination, { it.key }, transform)\r\n}\r\n\r\n/**\r\n * Populates the given [destination] map with entries having the keys obtained\r\n * by applying the [transform] function to each entry in this [Map] and the values of this map.\r\n *\r\n * In case if any two entries are mapped to the equal keys, the value of the latter one will overwrite\r\n * the value associated with the former one.\r\n */\r\npublic inline fun <K, V, R, M : MutableMap<in R, in V>> Map<out K, V>.mapKeysTo(destination: M, transform: (Map.Entry<K, V>) -> R): M {\r\n return entries.associateByTo(destination, transform, { it.value })\r\n}\r\n\r\n/**\r\n * Puts all the given [pairs] into this [MutableMap] with the first component in the pair being the key and the second the value.\r\n */\r\npublic fun <K, V> MutableMap<in K, in V>.putAll(pairs: Array<out Pair<K, V>>): Unit {\r\n for ((key, value) in pairs) {\r\n put(key, value)\r\n }\r\n}\r\n\r\n/**\r\n * Puts all the elements of the given collection into this [MutableMap] with the first component in the pair being the key and the second the value.\r\n */\r\npublic fun <K, V> MutableMap<in K, in V>.putAll(pairs: Iterable<Pair<K, V>>): Unit {\r\n for ((key, value) in pairs) {\r\n put(key, value)\r\n }\r\n}\r\n\r\n/**\r\n * Puts all the elements of the given sequence into this [MutableMap] with the first component in the pair being the key and the second the value.\r\n */\r\npublic fun <K, V> MutableMap<in K, in V>.putAll(pairs: Sequence<Pair<K, V>>): Unit {\r\n for ((key, value) in pairs) {\r\n put(key, value)\r\n }\r\n}\r\n\r\n/**\r\n * Returns a new map with entries having the keys of this map and the values obtained by applying the [transform]\r\n * function to each entry in this [Map].\r\n *\r\n * The returned map preserves the entry iteration order of the original map.\r\n *\r\n * @sample samples.collections.Maps.Transformations.mapValues\r\n */\r\npublic inline fun <K, V, R> Map<out K, V>.mapValues(transform: (Map.Entry<K, V>) -> R): Map<K, R> {\r\n return mapValuesTo(LinkedHashMap<K, R>(mapCapacity(size)), transform) // .optimizeReadOnlyMap()\r\n}\r\n\r\n/**\r\n * Returns a new Map with entries having the keys obtained by applying the [transform] function to each entry in this\r\n * [Map] and the values of this map.\r\n *\r\n * In case if any two entries are mapped to the equal keys, the value of the latter one will overwrite\r\n * the value associated with the former one.\r\n *\r\n * The returned map preserves the entry iteration order of the original map.\r\n *\r\n * @sample samples.collections.Maps.Transformations.mapKeys\r\n */\r\npublic inline fun <K, V, R> Map<out K, V>.mapKeys(transform: (Map.Entry<K, V>) -> R): Map<R, V> {\r\n return mapKeysTo(LinkedHashMap<R, V>(mapCapacity(size)), transform) // .optimizeReadOnlyMap()\r\n}\r\n\r\n/**\r\n * Returns a map containing all key-value pairs with keys matching the given [predicate].\r\n *\r\n * The returned map preserves the entry iteration order of the original map.\r\n * @sample samples.collections.Maps.Filtering.filterKeys\r\n */\r\npublic inline fun <K, V> Map<out K, V>.filterKeys(predicate: (K) -> Boolean): Map<K, V> {\r\n val result = LinkedHashMap<K, V>()\r\n for (entry in this) {\r\n if (predicate(entry.key)) {\r\n result.put(entry.key, entry.value)\r\n }\r\n }\r\n return result\r\n}\r\n\r\n/**\r\n * Returns a map containing all key-value pairs with values matching the given [predicate].\r\n *\r\n * The returned map preserves the entry iteration order of the original map.\r\n * @sample samples.collections.Maps.Filtering.filterValues\r\n */\r\npublic inline fun <K, V> Map<out K, V>.filterValues(predicate: (V) -> Boolean): Map<K, V> {\r\n val result = LinkedHashMap<K, V>()\r\n for (entry in this) {\r\n if (predicate(entry.value)) {\r\n result.put(entry.key, entry.value)\r\n }\r\n }\r\n return result\r\n}\r\n\r\n/**\r\n * Appends all entries matching the given [predicate] into the mutable map given as [destination] parameter.\r\n *\r\n * @return the destination map.\r\n * @sample samples.collections.Maps.Filtering.filterTo\r\n */\r\npublic inline fun <K, V, M : MutableMap<in K, in V>> Map<out K, V>.filterTo(destination: M, predicate: (Map.Entry<K, V>) -> Boolean): M {\r\n for (element in this) {\r\n if (predicate(element)) {\r\n destination.put(element.key, element.value)\r\n }\r\n }\r\n return destination\r\n}\r\n\r\n/**\r\n * Returns a new map containing all key-value pairs matching the given [predicate].\r\n *\r\n * The returned map preserves the entry iteration order of the original map.\r\n * @sample samples.collections.Maps.Filtering.filter\r\n */\r\npublic inline fun <K, V> Map<out K, V>.filter(predicate: (Map.Entry<K, V>) -> Boolean): Map<K, V> {\r\n return filterTo(LinkedHashMap<K, V>(), predicate)\r\n}\r\n\r\n/**\r\n * Appends all entries not matching the given [predicate] into the given [destination].\r\n *\r\n * @return the destination map.\r\n * @sample samples.collections.Maps.Filtering.filterNotTo\r\n */\r\npublic

inline fun <K, V, M : MutableMap<in K, in V>> Map<out K, V>.filterNotTo(destination: M, predicate: (Map.Entry<K, V>) -> Boolean): M {\r\n for (element in this) {\r\n if (!predicate(element)) {\r\n destination.put(element.key, element.value)\r\n }\r\n }\r\n return destination\r\n}\r\n\r\n/**\r\n * Returns a new map containing all key-value pairs not matching the given [predicate].\r\n *\r\n * The returned map preserves the entry iteration order of the original map.\r\n * @sample samples.collections.Maps.Filtering.filterNot\r\n */\r\npublic inline fun <K, V> Map<out K, V>.filterNot(predicate: (Map.Entry<K, V>) -> Boolean): Map<K, V> {\r\n return filterNotTo(LinkedHashMap<K, V>(), predicate)\r\n}\r\n\r\n/**\r\n * Returns a new map containing all key-value pairs from the given collection of pairs.\r\n *\r\n * The returned map preserves the entry iteration order of the original collection.\r\n * If any of two pairs would have the same key the last one gets added to the map.\r\n */\r\npublic fun <K, V> Iterable<Pair<K, V>>.toMap(): Map<K, V> {\r\n if (this is Collection) {\r\n return when (size) {\r\n 0 -> emptyMap()\r\n 1 -> mapOf(if (this is List) this[0] else iterator().next())\r\n else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))\r\n }\r\n }\r\n return toMap(LinkedHashMap<K, V>()).optimizeReadOnlyMap()\r\n}\r\n\r\n/**\r\n * Populates and returns the [destination] mutable map with key-value pairs from the given collection of pairs.\r\n */\r\npublic fun <K, V, M : MutableMap<in K, in V>> Iterable<Pair<K, V>>.toMap(destination: M): M =\r\n destination.apply { putAll(this@toMap) }\r\n\r\n/**\r\n * Returns a new map containing all key-value pairs from the given array of pairs.\r\n *\r\n * The returned map preserves the entry iteration order of the original array.\r\n * If any of two pairs would have the same key the last one gets added to the map.\r\n */\r\npublic fun <K, V> Array<out Pair<K, V>>.toMap(): Map<K, V> = when (size) {\r\n 0 -> emptyMap()\r\n 1 -> mapOf(this[0])\r\n else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))\r\n}\r\n\r\n/**\r\n * Populates and returns the [destination] mutable map with key-value pairs from the given array of pairs.\r\n */\r\npublic fun <K, V, M : MutableMap<in K, in V>> Array<out Pair<K, V>>.toMap(destination: M): M =\r\n destination.apply { putAll(this@toMap) }\r\n\r\n/**\r\n * Returns a new map containing all key-value pairs from the given sequence of pairs.\r\n *\r\n * The returned map preserves the entry iteration order of the original sequence.\r\n * If any of two pairs would have the same key the last one gets added to the map.\r\n */\r\npublic fun <K, V> Sequence<Pair<K, V>>.toMap(): Map<K, V> = toMap(LinkedHashMap<K, V>()).optimizeReadOnlyMap()\r\n\r\n/**\r\n * Populates and returns the [destination] mutable map with key-value pairs from the given sequence of pairs.\r\n */\r\npublic fun <K, V, M : MutableMap<in K, in V>> Sequence<Pair<K, V>>.toMap(destination: M): M =\r\n destination.apply { putAll(this@toMap) }\r\n\r\n/**\r\n * Returns a new read-only map containing all key-value pairs from the original map.\r\n *\r\n * The returned map preserves the entry iteration order of the original map.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic fun <K, V> Map<out K, V>.toMap(): Map<K, V> = when (size) {\r\n 0 -> emptyMap()\r\n 1 -> toSingletonMap()\r\n else -> toMutableMap()\r\n}\r\n\r\n/**\r\n * Returns a new mutable map containing all key-value pairs from the original map.\r\n *\r\n * The returned map preserves the entry iteration order of the original map.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic fun <K, V> Map<out K, V>.toMutableMap(): MutableMap<K, V> = LinkedHashMap(this)\r\n\r\n/**\r\n * Populates and returns the [destination] mutable map with key-value pairs from the given map.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic fun <K, V, M : MutableMap<in K, in V>> Map<out K, V>.toMap(destination: M): M =\r\n destination.apply { putAll(this@toMap) }\r\n\r\n/**\r\n * Creates a new read-only map by replacing or adding an entry to this map from a given key-value [pair].\r\n *\r\n * The returned map preserves the entry iteration order of the original map.\r\n * The [pair] is iterated in the end if it has a unique key.\r\n */\r\npublic operator fun <K, V> Map<out K, V>.plus(pair: Pair<K, V>): Map<K, V> =\r\n if (this.isEmpty()) mapOf(pair) else LinkedHashMap(this).apply { put(pair.first, pair.second) }\r\n\r\n/**\r\n * Creates a new read-only map by replacing or adding entries to this map from a given collection of key-value [pairs].\r\n *\r\n * The returned map preserves the entry iteration order of the original map.\r\n * Those [pairs] with unique keys are iterated in the end in the order of [pairs] collection.\r\n */\r\npublic operator fun <K, V> Map<out K, V>.plus(pairs: Iterable<Pair<K, V>>): Map<K, V> =\r\n if (this.isEmpty()) pairs.toMap() else LinkedHashMap(this).apply { putAll(pairs) }\r\n\r\n/**\r\n * Creates a new read-only map by replacing or adding entries to this map from a given array of key-value [pairs].\r\n *\r\n * The returned map preserves the entry iteration order of the original map.\r\n * Those [pairs] with unique keys are iterated in the end in the order of [pairs] array.\r\n

*/\r\npublic operator fun <K, V> Map<out K, V>.plus(pairs: Array<out Pair<K, V>>): Map<K, V> =\r\n   if (this.isEmpty()) pairs.toMap() else LinkedHashMap(this).apply { putAll(pairs) }\r\n\r\n/**\r\n * Creates a new read-only map by replacing or adding entries to this map from a given sequence of key-value [pairs].\r\n *\r\n * The returned map preserves the entry iteration order of the original map.\r\n * Those [pairs] with unique keys are iterated in the end in the order of [pairs] sequence.\r\n */\r\npublic operator fun <K, V> Map<out K, V>.plus(pairs: Sequence<Pair<K, V>>): Map<K, V> =\r\n   LinkedHashMap(this).apply { putAll(pairs) }.optimizeReadOnlyMap()\r\n\r\n/**\r\n * Creates a new read-only map by replacing or adding entries to this map from another [map].\r\n *\r\n * The returned map preserves the entry iteration order of the original map.\r\n * Those entries of another [map] that are missing in this map are iterated in the end in the order of that [map].\r\n */\r\npublic operator fun <K, V> Map<out K, V>.plus(map: Map<out K, V>): Map<K, V> =\r\n   LinkedHashMap(this).apply { putAll(map) }\r\n\r\n\r\n/**\r\n * Appends or replaces the given [pair] in this mutable map.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pair: Pair<K, V>) {\r\n   put(pair.first, pair.second)\r\n}\r\n\r\n/**\r\n * Appends or replaces all pairs from the given collection of [pairs] in this mutable map.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Iterable<Pair<K, V>>) {\r\n   putAll(pairs)\r\n}\r\n\r\n/**\r\n * Appends or replaces all pairs from the given array of [pairs] in this mutable map.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Array<out Pair<K, V>>) {\r\n   putAll(pairs)\r\n}\r\n\r\n/**\r\n * Appends or replaces all pairs from the given sequence of [pairs] in this mutable map.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Sequence<Pair<K, V>>) {\r\n   putAll(pairs)\r\n}\r\n\r\n/**\r\n * Appends or replaces all entries from the given [map] in this mutable map.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(map: Map<K, V>) {\r\n   putAll(map)\r\n}\r\n\r\n/**\r\n * Returns a map containing all entries of the original map except the entry with the given [key].\r\n *\r\n * The returned map preserves the entry iteration order of the original map.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic operator fun <K, V> Map<out K, V>.minus(key: K): Map<K, V> =\r\n   this.toMutableMap().apply { minusAssign(key) }.optimizeReadOnlyMap()\r\n\r\n/**\r\n * Returns a map containing all entries of the original map except those entries\r\n * the keys of which are contained in the given [keys] collection.\r\n *\r\n * The returned map preserves the entry iteration order of the original map.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic operator fun <K, V> Map<out K, V>.minus(keys: Iterable<K>): Map<K, V> =\r\n   this.toMutableMap().apply { minusAssign(keys) }.optimizeReadOnlyMap()\r\n\r\n/**\r\n * Returns a map containing all entries of the original map except those entries\r\n * the keys of which are contained in the given [keys] array.\r\n *\r\n * The returned map preserves the entry iteration order of the original map.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic operator fun <K, V> Map<out K, V>.minus(keys: Array<out K>): Map<K, V> =\r\n   this.toMutableMap().apply { minusAssign(keys) }.optimizeReadOnlyMap()\r\n\r\n/**\r\n * Returns a map containing all entries of the original map except those entries\r\n * the keys of which are contained in the given [keys] sequence.\r\n *\r\n * The returned map preserves the entry iteration order of the original map.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic operator fun <K, V> Map<out K, V>.minus(keys: Sequence<K>): Map<K, V> =\r\n   this.toMutableMap().apply { minusAssign(keys) }.optimizeReadOnlyMap()\r\n\r\n/**\r\n * Removes the entry with the given [key] from this mutable map.\r\n */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <K, V> MutableMap<K, V>.minusAssign(key: K) {\r\n   remove(key)\r\n}\r\n\r\n/**\r\n * Removes all entries the keys of which are contained in the given [keys] collection from this mutable map.\r\n */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <K, V> MutableMap<K, V>.minusAssign(keys: Iterable<K>) {\r\n   this.keys.removeAll(keys)\r\n}\r\n\r\n/**\r\n * Removes all entries the keys of which are contained in the given [keys] array from this mutable map.\r\n */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <K, V> MutableMap<K, V>.minusAssign(keys: Array<out K>) {\r\n   this.keys.removeAll(keys)\r\n}\r\n\r\n/**\r\n * Removes all entries from the keys of which are contained in the given [keys] sequence from this mutable map.\r\n

/\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <K, V> MutableMap<K, V>.minusAssign(keys: Sequence<K>) {\r\n   this.keys.removeAll(keys)\r\n}\r\n\r\n\r\n\r\n// do not expose for now @PublishedApi\r\ninternal fun <K, V> Map<K, V>.optimizeReadOnlyMap() = when (size) {\r\n   0 -> emptyMap()\r\n   1 -> toSingletonMapOrSelf()\r\n   else -> this\r\n}\r\n","/\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"SetsKt\")\r\n\r\npackage kotlin.collections\r\n\r\n\r\ninternal object EmptySet : Set<Nothing>, Serializable {\r\n   private const val serialVersionUID: Long = 3406603774387020532\r\n\r\n   override fun equals(other: Any?): Boolean = other is Set<*> && other.isEmpty()\r\n   override fun hashCode(): Int = 0\r\n   override fun toString(): String = \"[]\"\r\n\r\n   override val size: Int get() = 0\r\n   override fun isEmpty(): Boolean = true\r\n   override fun contains(element: Nothing): Boolean = false\r\n   override fun containsAll(elements: Collection<Nothing>): Boolean = elements.isEmpty()\r\n\r\n   override fun iterator(): Iterator<Nothing> = EmptyIterator\r\n\r\n   private fun readResolve(): Any = EmptySet\r\n}\r\n\r\n\r\n\r\n/**\r\n * Returns an empty read-only set. The returned set is serializable (JVM).\r\n * @sample samples.collections.Collections.Sets.emptyReadOnlySet\r\n */\r\npublic fun <T> emptySet(): Set<T> = EmptySet\r\n\r\n/**\r\n * Returns a new read-only set with the given elements.\r\n * Elements of the set are iterated in the order they were specified.\r\n * The returned set is serializable (JVM).\r\n * @sample samples.collections.Collections.Sets.readOnlySet\r\n */\r\npublic fun <T> setOf(vararg elements: T): Set<T> = if (elements.size > 0) elements.toSet() else emptySet()\r\n\r\n\r\n/**\r\n * Returns an empty read-only set. The returned set is serializable (JVM).\r\n * @sample samples.collections.Collections.Sets.emptyReadOnlySet\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> setOf(): Set<T> = emptySet()\r\n\r\n\r\n/**\r\n * Returns an empty new [MutableSet].\r\n *\r\n * The returned set preserves the element iteration order.\r\n * @sample samples.collections.Collections.Sets.emptyMutableSet\r\n */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> mutableSetOf(): MutableSet<T> = LinkedHashSet()\r\n\r\n\r\n/**\r\n * Returns a new [MutableSet] with the given elements.\r\n * Elements of the set are iterated in the order they were specified.\r\n * @sample samples.collections.Collections.Sets.mutableSet\r\n */\r\npublic fun <T> mutableSetOf(vararg elements: T): MutableSet<T> = elements.toCollection(LinkedHashSet(mapCapacity(elements.size)))\r\n\r\n\r\n/** Returns an empty new [HashSet]. */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> hashSetOf(): HashSet<T> = HashSet()\r\n\r\n\r\n/** Returns a new [HashSet] with the given elements. */\r\npublic fun <T> hashSetOf(vararg elements: T): HashSet<T> = elements.toCollection(HashSet(mapCapacity(elements.size)))\r\n\r\n\r\n/** Returns an empty new [LinkedHashSet]. */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> linkedSetOf(): LinkedHashSet<T> = LinkedHashSet()\r\n\r\n\r\n/**\r\n * Returns a new [LinkedHashSet] with the given elements.\r\n * Elements of the set are iterated in the order they were specified.\r\n */\r\npublic fun <T> linkedSetOf(vararg elements: T): LinkedHashSet<T> = elements.toCollection(LinkedHashSet(mapCapacity(elements.size)))\r\n\r\n\r\n/** Returns this Set if it's not `null` and the empty set otherwise. */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> Set<T>?.orEmpty(): Set<T> = this ?: emptySet()\r\n\r\n\r\ninternal fun <T> Set<T>.optimizeReadOnlySet() = when (size) {\r\n   0 -> emptySet()\r\n   1 -> setOf(iterator().next())\r\n   else -> this\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"StringsKt\")\r\n@file:Suppress(\"PLATFORM_CLASS_MAPPED_TO_KOTLIN\")\r\n\r\npackage kotlin.text\r\n\r\n\r\n/**\r\n * Parses the string as a signed [Byte] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic fun String.toByteOrNull(): Byte? = toByteOrNull(radix = 10)\r\n\r\n\r\n/**\r\n * Parses the string as a signed [Byte] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n *\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic fun String.toByteOrNull(radix: Int): Byte?

{\r\n   val int = this.toIntOrNull(radix) ?: return null\r\n   if (int < Byte.MIN_VALUE || int > Byte.MAX_VALUE) return null\r\n   return int.toByte()\r\n}\r\n\r\n/**\r\n * Parses the string as a [Short] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic fun String.toShortOrNull(): Short? = toShortOrNull(radix = 10)\r\n\r\n/**\r\n * Parses the string as a [Short] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n *\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic fun String.toShortOrNull(radix: Int): Short? {\r\n   val int = this.toIntOrNull(radix) ?: return null\r\n   if (int < Short.MIN_VALUE || int > Short.MAX_VALUE) return null\r\n   return int.toShort()\r\n}\r\n\r\n/**\r\n * Parses the string as an [Int] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic fun String.toIntOrNull(): Int? = toIntOrNull(radix = 10)\r\n\r\n/**\r\n * Parses the string as an [Int] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n *\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic fun String.toIntOrNull(radix: Int): Int? {\r\n   checkRadix(radix)\r\n\r\n   val length = this.length\r\n   if (length == 0) return null\r\n\r\n   val start: Int\r\n   val isNegative: Boolean\r\n   val limit: Int\r\n\r\n   val firstChar = this[0]\r\n   if (firstChar < '0') { // Possible leading sign\r\n   if (length == 1) return null // non-digit (possible sign) only, no digits after\r\n\r\n   start = 1\r\n\r\n   if (firstChar == '-') {\r\n   isNegative = true\r\n   limit = Int.MIN_VALUE\r\n   } else if (firstChar == '+') {\r\n   isNegative = false\r\n   limit = -Int.MAX_VALUE\r\n   } else\r\n   return null\r\n   } else {\r\n   start = 0\r\n   isNegative = false\r\n   limit = -Int.MAX_VALUE\r\n   }\r\n\r\n\r\n   val limitBeforeMul = limit / radix\r\n   var result = 0\r\n   for (i in start..(length - 1)) {\r\n   val digit = digitOf(this[i], radix)\r\n\r\n   if (digit < 0) return null\r\n   if (result < limitBeforeMul) return null\r\n\r\n   result *= radix\r\n\r\n   if (result < limit + digit) return null\r\n\r\n   result -= digit\r\n   }\r\n\r\n   return if (isNegative) result else -result\r\n}\r\n\r\n/**\r\n * Parses the string as a [Long] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic fun String.toLongOrNull(): Long? = toLongOrNull(radix = 10)\r\n\r\n/**\r\n * Parses the string as a [Long] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n *\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic fun String.toLongOrNull(radix: Int): Long? {\r\n   checkRadix(radix)\r\n\r\n   val length = this.length\r\n   if (length == 0) return null\r\n\r\n   val start: Int\r\n   val isNegative: Boolean\r\n   val limit: Long\r\n\r\n   val firstChar = this[0]\r\n   if (firstChar < '0') { // Possible leading sign\r\n   if (length == 1) return null // non-digit (possible sign) only, no digits after\r\n\r\n   start = 1\r\n\r\n   if (firstChar == '-') {\r\n   isNegative = true\r\n   limit = Long.MIN_VALUE\r\n   } else if (firstChar == '+') {\r\n   isNegative = false\r\n   limit = -Long.MAX_VALUE\r\n   } else\r\n   return null\r\n   } else {\r\n   start = 0\r\n   isNegative = false\r\n   limit = -Long.MAX_VALUE\r\n   }\r\n\r\n\r\n   val limitBeforeMul = limit / radix\r\n   var result = 0L\r\n   for (i in start..(length - 1)) {\r\n   val digit = digitOf(this[i], radix)\r\n\r\n   if (digit < 0) return null\r\n   if (result < limitBeforeMul) return null\r\n\r\n   result *= radix\r\n\r\n   if (result < limit + digit) return null\r\n\r\n   result -= digit\r\n   }\r\n\r\n   return if (isNegative) result else -result\r\n}\r\n\r\n\r\ninternal fun numberFormatError(input: String): Nothing = throw NumberFormatException(\"Invalid number format: '$input'\")\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n@file:kotlin.jvm.JvmName(\"UnsignedKt\")\r\n@file:UseExperimental(ExperimentalUnsignedTypes::class)\r\npackage kotlin\r\n\r\n\r\n@PublishedApi\r\ninternal fun uintCompare(v1: Int, v2: Int): Int = (v1 xor Int.MIN_VALUE).compareTo(v2 xor Int.MIN_VALUE)\r\n@PublishedApi\r\ninternal fun ulongCompare(v1: Long, v2: Long): Int = (v1 xor Long.MIN_VALUE).compareTo(v2 xor Long.MIN_VALUE)\r\n\r\n\r\n@PublishedApi\r\ninternal fun uintDivide(v1: UInt, v2: UInt): UInt = (v1.toLong() / v2.toLong()).toUInt()\r\n@PublishedApi\r\ninternal fun uintRemainder(v1: UInt, v2: UInt): UInt = (v1.toLong() % v2.toLong()).toUInt()\r\n\r\n\r\n// Division and remainder are based on Guava's UnsignedLongs implementation\r\n//

Copyright 2011 The Guava Authors\r\n\r\n@PublishedApi\r\ninternal fun ulongDivide(v1: ULong, v2: ULong): ULong {\r\n val dividend = v1.toLong()\r\n val divisor = v2.toLong()\r\n if (divisor < 0) { // i.e., divisor >= 2^63:\r\n return if (v1 < v2) ULong(0) else ULong(1)\r\n }\r\n\r\n // Optimization - use signed division if both dividend and divisor < 2^63\r\n if (dividend >= 0) {\r\n return ULong(dividend / divisor)\r\n }\r\n\r\n // Otherwise, approximate the quotient, check, and correct if necessary.\r\n val quotient = ((dividend ushr 1) / divisor) shl 1\r\n val rem = dividend - quotient * divisor\r\n return ULong(quotient + if (ULong(rem) >= ULong(divisor)) 1 else 0)\r\n\r\n}\r\n\r\n@PublishedApi\r\ninternal fun ulongRemainder(v1: ULong, v2: ULong): ULong {\r\n val dividend = v1.toLong()\r\n val divisor = v2.toLong()\r\n if (divisor < 0) { // i.e., divisor >= 2^63:\r\n return if (v1 < v2) {\r\n v1 // dividend < divisor\r\n } else {\r\n v1 - v2 // dividend >= divisor\r\n }\r\n }\r\n\r\n // Optimization - use signed modulus if both dividend and divisor < 2^63\r\n if (dividend >= 0) {\r\n return ULong(dividend % divisor)\r\n }\r\n\r\n // Otherwise, approximate the quotient, check, and correct if necessary.\r\n val quotient = ((dividend ushr 1) / divisor) shl 1\r\n val rem = dividend - quotient * divisor\r\n return ULong(rem - if (ULong(rem) >= ULong(divisor)) divisor else 0)\r\n}\r\n\r\n@PublishedApi\r\ninternal fun doubleToUInt(v: Double): UInt = when {\r\n v.isNaN() -> 0u\r\n v <= UInt.MIN_VALUE.toDouble() -> UInt.MIN_VALUE\r\n v >= UInt.MAX_VALUE.toDouble() -> UInt.MAX_VALUE\r\n v <= Int.MAX_VALUE -> v.toInt().toUInt()\r\n else -> (v - Int.MAX_VALUE).toInt().toUInt() + Int.MAX_VALUE.toUInt() // Int.MAX_VALUE < v < UInt.MAX_VALUE\r\n}\r\n\r\n@PublishedApi\r\ninternal fun doubleToULong(v: Double): ULong = when {\r\n v.isNaN() -> 0u\r\n v <= ULong.MIN_VALUE.toDouble() -> ULong.MIN_VALUE\r\n v >= ULong.MAX_VALUE.toDouble() -> ULong.MAX_VALUE\r\n v < Long.MAX_VALUE -> v.toLong().toULong()\r\n\r\n // Real values from Long.MAX_VALUE to (Long.MAX_VALUE + 1) are not representable in Double, so don't handle them.\r\n else -> (v - 9223372036854775808.0).toLong().toULong() + 9223372036854775808uL // Long.MAX_VALUE + 1 < v < ULong.MAX_VALUE\r\n}\r\n\r\n\r\n@PublishedApi\r\ninternal fun uintToDouble(v: Int): Double = (v and Int.MAX_VALUE).toDouble() + (v ushr 31 shl 30).toDouble() * 2\r\n\r\n@PublishedApi\r\ninternal fun ulongToDouble(v: Long): Double = (v ushr 11).toDouble() * 2048 + (v and 2047)\r\n\r\n\r\ninternal fun ulongToString(v: Long): String = ulongToString(v, 10)\r\n\r\ninternal fun ulongToString(v: Long, base: Int): String {\r\n if (v >= 0) return v.toString(base)\r\n\r\n var quotient = ((v ushr 1) / base) shl 1\r\n var rem = v - quotient * base\r\n if (rem >= base) {\r\n rem -= base\r\n quotient += 1\r\n }\r\n return quotient.toString(base) + rem.toString(base)\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"CollectionsKt\")\r\n\r\npackage kotlin.collections\r\n\r\n/**\r\n * Given an [iterator] function constructs an [Iterable] instance that returns values through the [Iterator]\r\n * provided by that function.\r\n * @sample samples.collections.Iterables.Building.iterable\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> Iterable(crossinline iterator: () -> Iterator<T>): Iterable<T> = object : Iterable<T> {\r\n override fun iterator(): Iterator<T> = iterator()\r\n}\r\n\r\n/**\r\n * A wrapper over another [Iterable] (or any other object that can produce an [Iterator]) that returns\r\n * an indexing iterator.\r\n */\r\ninternal class IndexingIterable<out T>(private val iteratorFactory: () -> Iterator<T>) : Iterable<IndexedValue<T>> {\r\n override fun iterator(): Iterator<IndexedValue<T>> = IndexingIterator(iteratorFactory())\r\n}\r\n\r\n\r\n/**\r\n * Returns the size of this iterable if it is known, or `null` otherwise.\r\n */\r\n@PublishedApi\r\ninternal fun <T> Iterable<T>.collectionSizeOrNull(): Int? = if (this is Collection<*>) this.size else null\r\n\r\n/**\r\n * Returns the size of this iterable if it is known, or the specified [default] value otherwise.\r\n */\r\n@PublishedApi\r\ninternal fun <T> Iterable<T>.collectionSizeOrDefault(default: Int): Int = if (this is Collection<*>) this.size else default\r\n\r\n/** Returns true when it's safe to convert this collection to a set without changing contains method behavior. */\r\nprivate fun <T> Collection<T>.safeToConvertToSet() = size > 2 && this is ArrayList\r\n\r\n/** Converts this collection to a set, when it's worth so and it doesn't change contains method behavior. */\r\ninternal

fun <T> Iterable<T>.convertToSetForSetOperationWith(source: Iterable<T>): Collection<T> =\r\n when (this) {\r\n is Set -> this\r\n is Collection ->\r\n when {\r\n source is Collection && source.size < 2 -> this\r\n else -> if (this.safeToConvertToSet()) toHashSet() else this\r\n }\r\n else -> toHashSet()\r\n }\r\n\r\n/** Converts this collection to a set, when it's worth so and it doesn't change contains method behavior. */\r\ninternal fun <T> Iterable<T>.convertToSetForSetOperation(): Collection<T> =\r\n when (this) {\r\n is Set -> this\r\n is Collection -> if (this.safeToConvertToSet()) toHashSet() else this\r\n else -> toHashSet()\r\n }\r\n\r\n\r\n/**\r\n * Returns a single list of all elements from all collections in the given collection.\r\n * @sample samples.collections.Iterables.Operations.flattenIterable\r\n */\r\npublic fun <T> Iterable<Iterable<T>>.flatten(): List<T> {\r\n val result = ArrayList<T>()\r\n for (element in this) {\r\n result.addAll(element)\r\n }\r\n return result\r\n}\r\n\r\n/**\r\n * Returns a pair of lists, where\r\n * *first* list is built from the first values of each pair from this collection,\r\n * *second* list is built from the second values of each pair from this collection.\r\n * @sample samples.collections.Iterables.Operations.unzipIterable\r\n */\r\npublic fun <T, R> Iterable<Pair<T, R>>.unzip(): Pair<List<T>, List<R>> {\r\n val expectedSize = collectionSizeOrDefault(10)\r\n val listT = ArrayList<T>(expectedSize)\r\n val listR = ArrayList<R>(expectedSize)\r\n for (pair in this) {\r\n listT.add(pair.first)\r\n listR.add(pair.second)\r\n }\r\n return listT to listR\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"SequencesKt\")\r\n\r\npackage kotlin.sequences\r\n\r\n/**\r\n * Given an [iterator] function constructs a [Sequence] that returns values through the [Iterator]\r\n * provided by that function.\r\n * The values are evaluated lazily, and the sequence is potentially infinite.\r\n *\r\n * @sample samples.collections.Sequences.Building.sequenceFromIterator\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> Sequence(crossinline iterator: () -> Iterator<T>): Sequence<T> = object : Sequence<T> {\r\n override fun iterator(): Iterator<T> = iterator()\r\n}\r\n\r\n/**\r\n * Creates a sequence that returns all elements from this iterator. The sequence is constrained to be iterated only once.\r\n *\r\n * @sample samples.collections.Sequences.Building.sequenceFromIterator\r\n */\r\npublic fun <T> Iterator<T>.asSequence(): Sequence<T> = Sequence { this }.constrainOnce()\r\n\r\n/**\r\n * Creates a sequence that returns the specified values.\r\n *\r\n * @sample samples.collections.Sequences.Building.sequenceOfValues\r\n */\r\npublic fun <T> sequenceOf(vararg elements: T): Sequence<T> = if (elements.isEmpty()) emptySequence() else elements.asSequence()\r\n\r\n/**\r\n * Returns an empty sequence.\r\n */\r\npublic fun <T> emptySequence(): Sequence<T> = EmptySequence\r\n\r\nprivate object EmptySequence : Sequence<Nothing>, DropTakeSequence<Nothing> {\r\n override fun iterator(): Iterator<Nothing> = EmptyIterator\r\n override fun drop(n: Int) = EmptySequence\r\n override fun take(n: Int) = EmptySequence\r\n}\r\n\r\n/**\r\n * Returns this sequence if it's not `null` and the empty sequence otherwise.\r\n * @sample samples.collections.Sequences.Usage.sequenceOrEmpty\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> Sequence<T>?.orEmpty(): Sequence<T> = this ?: emptySequence()\r\n\r\n\r\n/**\r\n * Returns a sequence that iterates through the elements either of this sequence\r\n * or, if this sequence turns out to be empty, of the sequence returned by [defaultValue] function.\r\n *\r\n * @sample samples.collections.Sequences.Usage.sequenceIfEmpty\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic fun <T> Sequence<T>.ifEmpty(defaultValue: () -> Sequence<T>): Sequence<T> = sequence {\r\n val iterator = this@ifEmpty.iterator()\r\n if (iterator.hasNext()) {\r\n yieldAll(iterator)\r\n } else {\r\n yieldAll(defaultValue())\r\n }\r\n}\r\n\r\n/**\r\n * Returns a sequence of all elements from all sequences in this sequence.\r\n *\r\n * The operation is _intermediate_ and _stateless_.\r\n */\r\npublic fun <T> Sequence<Sequence<T>>.flatten(): Sequence<T> = flatten { it.iterator() }\r\n\r\n/**\r\n * Returns a sequence of all elements from all iterables in this sequence.\r\n *\r\n * The operation is _intermediate_ and _stateless_.\r\n */\r\n@kotlin.jvm.JvmName(\"flattenSequenceOfIterable\")\r\npublic fun <T> Sequence<Iterable<T>>.flatten(): Sequence<T> = flatten { it.iterator() }\r\n\r\nprivate fun <T, R> Sequence<T>.flatten(iterator: (T) -> Iterator<R>): Sequence<R> {\r\n if (this is TransformingSequence<*, *>)

{\r\n return (this as TransformingSequence<*, T>).flatten(iterator)\r\n }\r\n return FlatteningSequence(this, { it }, iterator)\r\n}\r\n\r\n/**\r\n * Returns a pair of lists, where\r\n * *first* list is built from the first values of each pair from this sequence,\r\n * *second* list is built from the second values of each pair from this sequence.\r\n *\r\n * The operation is _terminal_.\r\n */\r\npublic fun <T, R> Sequence<Pair<T, R>>.unzip(): Pair<List<T>, List<R>> {\r\n val listT = ArrayList<T>()\r\n val listR = ArrayList<R>()\r\n for (pair in this) {\r\n listT.add(pair.first)\r\n listR.add(pair.second)\r\n }\r\n return listT to listR\r\n}\r\n\r\n/**\r\n * A sequence that returns the values from the underlying [sequence] that either match or do not match\r\n * the specified [predicate].\r\n *\r\n * @param sendWhen If `true`, values for which the predicate returns `true` are returned. Otherwise,\r\n * values for which the predicate returns `false` are returned\r\n */\r\ninternal class FilteringSequence<T>(\r\n private val sequence: Sequence<T>,\r\n private val sendWhen: Boolean = true,\r\n private val predicate: (T) -> Boolean\r\n) : Sequence<T> {\r\n\r\n override fun iterator(): Iterator<T> = object : Iterator<T> {\r\n val iterator = sequence.iterator()\r\n var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue\r\n var nextItem: T? = null\r\n\r\n private fun calcNext() {\r\n while (iterator.hasNext()) {\r\n val item = iterator.next()\r\n if (predicate(item) == sendWhen) {\r\n nextItem = item\r\n nextState = 1\r\n return\r\n }\r\n }\r\n nextState = 0\r\n }\r\n\r\n override fun next(): T {\r\n if (nextState == -1)\r\n calcNext()\r\n if (nextState == 0)\r\n throw NoSuchElementException()\r\n val result = nextItem\r\n nextItem = null\r\n nextState = -1\r\n @Suppress(\"UNCHECKED_CAST\")\r\n return result as T\r\n }\r\n\r\n override fun hasNext(): Boolean {\r\n if (nextState == -1)\r\n calcNext()\r\n return nextState == 1\r\n }\r\n }\r\n}\r\n\r\n/**\r\n * A sequence which returns the results of applying the given [transformer] function to the values\r\n * in the underlying [sequence].\r\n */\r\n\r\ninternal class TransformingSequence<T, R>\r\nconstructor(private val sequence: Sequence<T>, private val transformer: (T) -> R) : Sequence<R> {\r\n override fun iterator(): Iterator<R> = object : Iterator<R> {\r\n val iterator = sequence.iterator()\r\n override fun next(): R {\r\n return transformer(iterator.next())\r\n }\r\n\r\n override fun hasNext(): Boolean {\r\n return iterator.hasNext()\r\n }\r\n }\r\n\r\n internal fun <E> flatten(iterator: (R) -> Iterator<E>): Sequence<E> {\r\n return FlatteningSequence<T, R, E>(sequence, transformer, iterator)\r\n }\r\n}\r\n\r\n/**\r\n * A sequence which returns the results of applying the given [transformer] function to the values\r\n * in the underlying [sequence], where the transformer function takes the index of the value in the underlying\r\n * sequence along with the value itself.\r\n */\r\ninternal class TransformingIndexedSequence<T, R>\r\nconstructor(private val sequence: Sequence<T>, private val transformer: (Int, T) -> R) : Sequence<R> {\r\n override fun iterator(): Iterator<R> = object : Iterator<R> {\r\n val iterator = sequence.iterator()\r\n var index = 0\r\n override fun next(): R {\r\n return transformer(checkIndexOverflow(index++), iterator.next())\r\n }\r\n\r\n override fun hasNext(): Boolean {\r\n return iterator.hasNext()\r\n }\r\n }\r\n}\r\n\r\n/**\r\n * A sequence which combines values from the underlying [sequence] with their indices and returns them as\r\n * [IndexedValue] objects.\r\n */\r\ninternal class IndexingSequence<T>\r\nconstructor(private val sequence: Sequence<T>) : Sequence<IndexedValue<T>> {\r\n override fun iterator(): Iterator<IndexedValue<T>> = object : Iterator<IndexedValue<T>> {\r\n val iterator = sequence.iterator()\r\n var index = 0\r\n override fun next(): IndexedValue<T> {\r\n return IndexedValue(checkIndexOverflow(index++), iterator.next())\r\n }\r\n\r\n override fun hasNext(): Boolean {\r\n return iterator.hasNext()\r\n }\r\n }\r\n}\r\n\r\n/**\r\n * A sequence which takes the values from two parallel underlying sequences, passes them to the given\r\n * [transform] function and returns the values returned by that function. The sequence stops returning\r\n * values as soon as one of the underlying sequences stops returning values.\r\n */\r\ninternal class MergingSequence<T1, T2, V>\r\nconstructor(\r\n private val sequence1: Sequence<T1>,\r\n private val sequence2: Sequence<T2>,\r\n private val transform: (T1, T2) -> V\r\n) : Sequence<V> {\r\n override fun iterator(): Iterator<V> = object : Iterator<V> {\r\n val iterator1 = sequence1.iterator()\r\n val iterator2 = sequence2.iterator()\r\n override fun next(): V {\r\n return transform(iterator1.next(), iterator2.next())\r\n }\r\n\r\n override fun hasNext(): Boolean {\r\n return iterator1.hasNext() && iterator2.hasNext()\r\n }\r\n }\r\n}\r\n\r\ninternal class FlatteningSequence<T, R,

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E>\r\nconstructor(\r\n    private val sequence: Sequence<T>,\r\n    private val transformer: (T) -> R,\r\n    private val iterator: (R) -> Iterator<E>\r\n) : Sequence<E> {\r\n    override fun iterator(): Iterator<E> = object : Iterator<E> {\r\n        val iterator = sequence.iterator()\r\n        var itemIterator: Iterator<E>? = null\r\n\r\n        override fun next(): E {\r\n            if (!ensureItemIterator())\r\n                throw NoSuchElementException()\r\n            return itemIterator!!.next()\r\n        }\r\n\r\n        override fun hasNext(): Boolean {\r\n            return ensureItemIterator()\r\n        }\r\n\r\n        private fun ensureItemIterator(): Boolean {\r\n            if (itemIterator?.hasNext() == false)\r\n                itemIterator = null\r\n\r\n            while (itemIterator == null) {\r\n                if (!iterator.hasNext()) {\r\n                    return false\r\n                } else {\r\n                    val element = iterator.next()\r\n                    val nextItemIterator = iterator(transformer(element))\r\n                    if (nextItemIterator.hasNext()) {\r\n                        itemIterator = nextItemIterator\r\n                        return true\r\n                    }\r\n                }\r\n            }\r\n            return true\r\n        }\r\n    }\r\n}\r\n\r\n/**\r\n * A sequence that supports drop(n) and take(n) operations\r\n */\r\ninternal interface DropTakeSequence<T> : Sequence<T> {\r\n    fun drop(n: Int): Sequence<T>\r\n    fun take(n: Int): Sequence<T>\r\n}\r\n\r\n/**\r\n * A sequence that skips [startIndex] values from the underlying [sequence]\r\n * and stops returning values right before [endIndex], i.e. stops at `endIndex - 1`\r\n */\r\ninternal class SubSequence<T>(\r\n    private val sequence: Sequence<T>,\r\n    private val startIndex: Int,\r\n    private val endIndex: Int\r\n) : Sequence<T>, DropTakeSequence<T> {\r\n\r\n    init {\r\n        require(startIndex >= 0) { \"startIndex should be non-negative, but is $startIndex\" }\r\n        require(endIndex >= 0) { \"endIndex should be non-negative, but is $endIndex\" }\r\n        require(endIndex >= startIndex) { \"endIndex should be not less than startIndex, but was $endIndex < $startIndex\" }\r\n    }\r\n\r\n    private val count: Int get() = endIndex - startIndex\r\n\r\n    override fun drop(n: Int): Sequence<T> = if (n >= count) emptySequence() else SubSequence(sequence, startIndex + n, endIndex)\r\n    override fun take(n: Int): Sequence<T> = if (n >= count) this else SubSequence(sequence, startIndex, startIndex + n)\r\n\r\n    override fun iterator() = object : Iterator<T> {\r\n        val iterator = sequence.iterator()\r\n        var position = 0\r\n\r\n        // Shouldn't be called from constructor to avoid premature iteration\r\n        private fun drop() {\r\n            while (position < startIndex && iterator.hasNext()) {\r\n                iterator.next()\r\n                position++\r\n            }\r\n        }\r\n\r\n        override fun hasNext(): Boolean {\r\n            drop()\r\n            return (position < endIndex) && iterator.hasNext()\r\n        }\r\n\r\n        override fun next(): T {\r\n            drop()\r\n            if (position >= endIndex)\r\n                throw NoSuchElementException()\r\n            position++\r\n            return iterator.next()\r\n        }\r\n    }\r\n}\r\n\r\n/**\r\n * A sequence that returns at most [count] values from the underlying [sequence], and stops returning values\r\n * as soon as that count is reached.\r\n */\r\ninternal class TakeSequence<T>(\r\n    private val sequence: Sequence<T>,\r\n    private val count: Int\r\n) : Sequence<T>, DropTakeSequence<T> {\r\n\r\n    init {\r\n        require(count >= 0) { \"count must be non-negative, but was $count.\" }\r\n    }\r\n\r\n    override fun drop(n: Int): Sequence<T> = if (n >= count) emptySequence() else SubSequence(sequence, n, count)\r\n    override fun take(n: Int): Sequence<T> = if (n >= count) this else TakeSequence(sequence, n)\r\n\r\n    override fun iterator(): Iterator<T> = object : Iterator<T> {\r\n        var left = count\r\n        val iterator = sequence.iterator()\r\n\r\n        override fun next(): T {\r\n            if (left == 0)\r\n                throw NoSuchElementException()\r\n            left--\r\n            return iterator.next()\r\n        }\r\n\r\n        override fun hasNext(): Boolean {\r\n            return left > 0 && iterator.hasNext()\r\n        }\r\n    }\r\n}\r\n\r\n/**\r\n * A sequence that returns values from the underlying [sequence] while the [predicate] function returns\r\n * `true`, and stops returning values once the function returns `false` for the next element.\r\n */\r\ninternal class TakeWhileSequence<T>\r\nconstructor(\r\n    private val sequence: Sequence<T>,\r\n    private val predicate: (T) -> Boolean\r\n) : Sequence<T> {\r\n    override fun iterator(): Iterator<T> = object : Iterator<T> {\r\n        val iterator = sequence.iterator()\r\n        var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue\r\n        var nextItem: T? = null\r\n\r\n        private fun calcNext() {\r\n            if (iterator.hasNext()) {\r\n                val item = iterator.next()\r\n                if (predicate(item)) {\r\n                    nextState = 1\r\n                    nextItem = item\r\n                    return\r\n                }\r\n            }\r\n            nextState = 0\r\n        }\r\n\r\n        override fun next(): T {\r\n            if (nextState == -1)\r\n                calcNext() // will change nextState\r\n            if (nextState == 0)\r\n                throw NoSuchElementException()\r\n            @Suppress(\"UNCHECKED_CAST\")\r\n            val result = nextItem as T\r\n\r\n            // Clean next to avoid
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keeping reference on yielded instance\r\n            nextItem = null\r\n            nextState = -1\r\n            return result\r\n        }\r\n\r\n        override fun hasNext(): Boolean {\r\n            if (nextState == -1)\r\n                calcNext() // will change nextState\r\n            return nextState == 1\r\n        }\r\n    }\r\n}\r\n\r\n/**\r\n * A sequence that skips the specified number of values from the underlying [sequence] and returns\r\n * all values after that.\r\n */\r\ninternal class DropSequence<T>(\r\n    private val sequence: Sequence<T>,\r\n    private val count: Int\r\n) : Sequence<T>, DropTakeSequence<T> {\r\n    init {\r\n        require(count >= 0) { \"count must be non-negative, but was $count.\" }\r\n    }\r\n\r\n    override fun drop(n: Int): Sequence<T> = (count + n).let { n1 -> if (n1 < 0) DropSequence(this, n) else DropSequence(sequence, n1) }\r\n    override fun take(n: Int): Sequence<T> = (count + n).let { n1 -> if (n1 < 0) TakeSequence(this, n) else SubSequence(sequence, count, n1) }\r\n\r\n    override fun iterator(): Iterator<T> = object : Iterator<T> {\r\n        val iterator = sequence.iterator()\r\n        var left = count\r\n\r\n        // Shouldn't be called from constructor to avoid premature iteration\r\n        private fun drop() {\r\n            while (left > 0 && iterator.hasNext()) {\r\n                iterator.next()\r\n                left--\r\n            }\r\n        }\r\n\r\n        override fun next(): T {\r\n            drop()\r\n            return iterator.next()\r\n        }\r\n\r\n        override fun hasNext(): Boolean {\r\n            drop()\r\n            return iterator.hasNext()\r\n        }\r\n    }\r\n}\r\n\r\n/**\r\n * A sequence that skips the values from the underlying [sequence] while the given [predicate] returns `true` and returns\r\n * all values after that.\r\n */\r\ninternal class DropWhileSequence<T>\r\nconstructor(\r\n    private val sequence: Sequence<T>,\r\n    private val predicate: (T) -> Boolean\r\n) : Sequence<T> {\r\n\r\n    override fun iterator(): Iterator<T> = object : Iterator<T> {\r\n        val iterator = sequence.iterator()\r\n        var dropState: Int = -1 // -1 for not dropping, 1 for nextItem, 0 for normal iteration\r\n        var nextItem: T? = null\r\n\r\n        private fun drop() {\r\n            while (iterator.hasNext()) {\r\n                val item = iterator.next()\r\n                if (!predicate(item)) {\r\n                    nextItem = item\r\n                    dropState = 1\r\n                    return\r\n                }\r\n            }\r\n            dropState = 0\r\n        }\r\n\r\n        override fun next(): T {\r\n            if (dropState == -1)\r\n                drop()\r\n\r\n            if (dropState == 1) {\r\n                @Suppress(\"UNCHECKED_CAST\")\r\n                val result = nextItem as T\r\n                nextItem = null\r\n                dropState = 0\r\n                return result\r\n            }\r\n            return iterator.next()\r\n        }\r\n\r\n        override fun hasNext(): Boolean {\r\n            if (dropState == -1)\r\n                drop()\r\n            return dropState == 1 || iterator.hasNext()\r\n        }\r\n    }\r\n}\r\n\r\ninternal class DistinctSequence<T, K>(private val source: Sequence<T>, private val keySelector: (T) -> K) : Sequence<T> {\r\n    override fun iterator(): Iterator<T> = DistinctIterator(source.iterator(), keySelector)\r\n}\r\n\r\nprivate class DistinctIterator<T, K>(private val source: Iterator<T>, private val keySelector: (T) -> K) : AbstractIterator<T>() {\r\n    private val observed = HashSet<K>()\r\n\r\n    override fun computeNext() {\r\n        while (source.hasNext()) {\r\n            val next = source.next()\r\n            val key = keySelector(next)\r\n\r\n            if (observed.add(key)) {\r\n                setNext(next)\r\n                return\r\n            }\r\n        }\r\n\r\n        done()\r\n    }\r\n}\r\n\r\n\r\nprivate class GeneratorSequence<T : Any>(private val getInitialValue: () -> T?, private val getNextValue: (T) -> T?) : Sequence<T> {\r\n    override fun iterator(): Iterator<T> = object : Iterator<T> {\r\n        var nextItem: T? = null\r\n        var nextState: Int = -2 // -2 for initial unknown, -1 for next unknown, 0 for done, 1 for continue\r\n\r\n        private fun calcNext() {\r\n            nextItem = if (nextState == -2) getInitialValue() else getNextValue(nextItem!!)\r\n            nextState = if (nextItem == null) 0 else 1\r\n        }\r\n\r\n        override fun next(): T {\r\n            if (nextState < 0)\r\n                calcNext()\r\n\r\n            if (nextState == 0)\r\n                throw NoSuchElementException()\r\n            val result = nextItem as T\r\n            // Do not clean nextItem (to avoid keeping reference on yielded instance) -- need to keep state for getNextValue\r\n            nextState = -1\r\n            return result\r\n        }\r\n\r\n        override fun hasNext(): Boolean {\r\n            if (nextState < 0)\r\n                calcNext()\r\n            return nextState == 1\r\n        }\r\n    }\r\n}\r\n\r\n/**\r\n * Returns a wrapper sequence that provides values of this sequence, but ensures it can be iterated only one time.\r\n *\r\n * The operation is _intermediate_ and _stateless_.\r\n *\r\n * [IllegalStateException] is thrown on iterating the returned sequence from the second time.\r\n *\r\n */\r\npublic fun <T> Sequence<T>.constrainOnce(): Sequence<T> {\r\n    // as? does not work in js\r\n    //return this as? ConstrainedOnceSequence<T> ?: ConstrainedOnceSequence(this)\r\n    return if (this is ConstrainedOnceSequence<T>) this else ConstrainedOnceSequence(this)\r\n}\r\n\r\n\r\n\r\n/**\r\n * Returns a sequence which invokes the function to calculate the next value on each iteration until the function returns `null`.\r\n
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*\r\n * The returned sequence is constrained to be iterated only once.\r\n *\r\n * @see constrainOnce\r\n * @see kotlin.sequences.sequence\r\n *\r\n * @sample samples.collections.Sequences.Building.generateSequence\r\n */\r\npublic fun <T : Any> generateSequence(nextFunction: () -> T?): Sequence<T> {\r\n return GeneratorSequence(nextFunction, { nextFunction() }).constrainOnce()\r\n}\r\n\r\n\r\n/**\r\n * Returns a sequence defined by the starting value [seed] and the function [nextFunction],\r\n * which is invoked to calculate the next value based on the previous one on each iteration.\r\n *\r\n * The sequence produces values until it encounters first `null` value.\r\n * If [seed] is `null`, an empty sequence is produced.\r\n *\r\n * The sequence can be iterated multiple times, each time starting with [seed].\r\n *\r\n * @see kotlin.sequences.sequence\r\n *\r\n * @sample samples.collections.Sequences.Building.generateSequenceWithSeed\r\n */\r\n@kotlin.internal.LowPriorityInOverloadResolution\r\npublic fun <T : Any> generateSequence(seed: T?, nextFunction: (T) -> T?): Sequence<T> =\r\n if (seed == null)\r\n EmptySequence\r\n else\r\n GeneratorSequence({ seed }, nextFunction)\r\n\r\n\r\n/**\r\n * Returns a sequence defined by the function [seedFunction], which is invoked to produce the starting value,\r\n * and the [nextFunction], which is invoked to calculate the next value based on the previous one on each iteration.\r\n *\r\n * The sequence produces values until it encounters first `null` value.\r\n * If [seedFunction] returns `null`, an empty sequence is produced.\r\n *\r\n * The sequence can be iterated multiple times.\r\n *\r\n * @see kotlin.sequences.sequence\r\n *\r\n * @sample samples.collections.Sequences.Building.generateSequenceWithLazySeed\r\n */\r\npublic fun <T : Any> generateSequence(seedFunction: () -> T?, nextFunction: (T) -> T?): Sequence<T> =\r\n GeneratorSequence(seedFunction, nextFunction)\r\n\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"PreconditionsKt\")\r\n\r\n\r\npackage kotlin\r\n\r\n\r\nimport kotlin.contracts.contract\r\n\r\n\r\n/**\r\n * Throws an [IllegalArgumentException] if the [value] is false.\r\n *\r\n * @sample samples.misc.Preconditions.failRequireWithLazyMessage\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun require(value: Boolean): Unit {\r\n contract {\r\n returns() implies value\r\n }\r\n require(value) { \"Failed requirement.\" }\r\n}\r\n\r\n\r\n/**\r\n * Throws an [IllegalArgumentException] with the result of calling [lazyMessage] if the [value] is false.\r\n *\r\n * @sample samples.misc.Preconditions.failRequireWithLazyMessage\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun require(value: Boolean, lazyMessage: () -> Any): Unit {\r\n contract {\r\n returns() implies value\r\n }\r\n if (!value) {\r\n val message = lazyMessage()\r\n throw IllegalArgumentException(message.toString())\r\n }\r\n}\r\n\r\n\r\n/**\r\n * Throws an [IllegalArgumentException] if the [value] is null. Otherwise returns the not null value.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T : Any> requireNotNull(value: T?): T {\r\n contract {\r\n returns() implies (value != null)\r\n }\r\n return requireNotNull(value) { \"Required value was null.\" }\r\n}\r\n\r\n\r\n/**\r\n * Throws an [IllegalArgumentException] with the result of calling [lazyMessage] if the [value] is null. Otherwise\r\n * returns the not null value.\r\n *\r\n * @sample samples.misc.Preconditions.failRequireWithLazyMessage\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T : Any> requireNotNull(value: T?, lazyMessage: () -> Any): T {\r\n contract {\r\n returns() implies (value != null)\r\n }\r\n\r\n if (value == null) {\r\n val message = lazyMessage()\r\n throw IllegalArgumentException(message.toString())\r\n } else {\r\n return value\r\n }\r\n}\r\n\r\n\r\n/**\r\n * Throws an [IllegalStateException] if the [value] is false.\r\n *\r\n * @sample samples.misc.Preconditions.failCheckWithLazyMessage\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun check(value: Boolean): Unit {\r\n contract {\r\n returns() implies value\r\n }\r\n check(value) { \"Check failed.\" }\r\n}\r\n\r\n\r\n/**\r\n * Throws an [IllegalStateException] with the result of calling [lazyMessage] if the [value] is false.\r\n *\r\n * @sample samples.misc.Preconditions.failCheckWithLazyMessage\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun check(value: Boolean, lazyMessage: () -> Any): Unit {\r\n contract {\r\n returns() implies value\r\n }\r\n if (!value) {\r\n val message = lazyMessage()\r\n throw IllegalStateException(message.toString())\r\n }\r\n}\r\n\r\n\r\n/**\r\n * Throws an [IllegalStateException] if the [value] is null. Otherwise\r\n * returns the not null value.\r\n *\r\n * @sample

samples.misc.Preconditions.failCheckWithLazyMessage\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T : Any> checkNotNull(value: T?): T {\r\n   contract {\r\n   returns() implies (value != null)\r\n   }\r\n   return checkNotNull(value) { \"Required value was null.\" }\r\n}\r\n\r\n/**\r\n * Throws an [IllegalStateException] with the result of calling [lazyMessage] if the [value] is null. Otherwise\r\n * returns the not null value.\r\n *\r\n * @sample samples.misc.Preconditions.failCheckWithLazyMessage\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T : Any> checkNotNull(value: T?, lazyMessage: () -> Any): T {\r\n   contract {\r\n   returns() implies (value != null)\r\n   }\r\n\r\n   if (value == null) {\r\n   val message = lazyMessage()\r\n   throw IllegalStateException(message.toString())\r\n   } else {\r\n   return value\r\n   }\r\n}\r\n\r\n\r\n/**\r\n * Throws an [IllegalStateException] with the given [message].\r\n *\r\n * @sample samples.misc.Preconditions.failWithError\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun error(message: Any): Nothing = throw IllegalStateException(message.toString())\r\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.js.*\nimport primitiveArrayConcat\nimport withType\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun <T> Array<out T>.elementAt(index: Int): T {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun ByteArray.elementAt(index: Int): Byte {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun ShortArray.elementAt(index: Int): Short {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun IntArray.elementAt(index: Int): Int {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun LongArray.elementAt(index: Int): Long {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun FloatArray.elementAt(index: Int): Float {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun DoubleArray.elementAt(index: Int): Double {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun BooleanArray.elementAt(index: Int): Boolean {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun CharArray.elementAt(index: Int): Char {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns a [List] that wraps the original

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array.\n */\npublic actual fun <T> Array<out T>.asList(): List<T> {\n    return
ArrayList<T>(this.unsafeCast<Array<Any?>>())\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\n@kotlin.internal.InlineOnly\npublic actual inline fun ByteArray.asList(): List<Byte> {\n    return
this.unsafeCast<Array<Byte>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\n@kotlin.internal.InlineOnly\npublic actual inline fun ShortArray.asList(): List<Short> {\n    return
this.unsafeCast<Array<Short>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\n@kotlin.internal.InlineOnly\npublic actual inline fun IntArray.asList(): List<Int> {\n    return
this.unsafeCast<Array<Int>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\n@kotlin.internal.InlineOnly\npublic actual inline fun LongArray.asList(): List<Long> {\n    return
this.unsafeCast<Array<Long>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\n@kotlin.internal.InlineOnly\npublic actual inline fun FloatArray.asList(): List<Float> {\n    return
this.unsafeCast<Array<Float>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\n@kotlin.internal.InlineOnly\npublic actual inline fun DoubleArray.asList(): List<Double> {\n    return
this.unsafeCast<Array<Double>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\n@kotlin.internal.InlineOnly\npublic actual inline fun BooleanArray.asList(): List<Boolean> {\n    return
this.unsafeCast<Array<Boolean>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\npublic actual fun CharArray.asList(): List<Char> {\n    return object : AbstractList<Char>(), RandomAccess {\n
    override val size: Int get() = this@asList.size\n        override fun isEmpty(): Boolean = this@asList.isEmpty()\n
  override fun contains(element: Char): Boolean = this@asList.contains(element)\n        override fun get(index: Int):
Char {\n            AbstractList.checkElementIndex(index, size)\n            return this@asList[index]\n        }\n
override fun indexOf(element: Char): Int {\n            if ((element as Any?) !is Char) return -1\n            return
this@asList.indexOf(element)\n        }\n        override fun lastIndexOf(element: Char): Int {\n            if ((element as
Any?) !is Char) return -1\n            return this@asList.lastIndexOf(element)\n        }\n    }\n}\n\n/**\n * Returns
`true` if the two specified arrays are *deeply* equal to one another,\n * i.e. contain the same number of the same
elements in the same order.\n * \n * If two corresponding elements are nested arrays, they are also compared
deeply.\n * If any of arrays contains itself on any nesting level the behavior is undefined.\n * \n * The elements of
other types are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it
means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*/\n@SinceKotlin(\"1.1\")\n@library(\"arrayDeepEquals\")\npublic actual infix fun <T> Array<out
T>.contentDeepEquals(other: Array<out T>): Boolean {\n    definedExternally\n}\n\n/**\n * Returns a hash code
based on the contents of this array as if it is [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays
contains itself on any nesting level the behavior is undefined.\n
*/\n@SinceKotlin(\"1.1\")\n@library(\"arrayDeepHashCode\")\npublic actual fun <T> Array<out
T>.contentDeepHashCode(): Int {\n    definedExternally\n}\n\n/**\n * Returns a string representation of the
contents of this array as if it is a [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains
itself on any nesting level that reference\n * is rendered as `\"[...]\"` to prevent recursion.\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentDeepToString\n
*/\n@SinceKotlin(\"1.1\")\n@library(\"arrayDeepToString\")\npublic actual fun <T> Array<out
T>.contentDeepToString(): String {\n    definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays
are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n *
\n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers
it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*/\n@SinceKotlin(\"1.1\")\n@library(\"arrayEquals\")\npublic actual infix fun <T> Array<out
T>.contentEquals(other: Array<out T>): Boolean {\n    definedExternally\n}\n\n/**\n * Returns `true` if the two
specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the
same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating
point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*/\n@SinceKotlin(\"1.1\")\n@library(\"arrayEquals\")\npublic actual infix fun ByteArray.contentEquals(other:
```

ByteArray): Boolean {\n   definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayEquals\")\npublic actual infix fun ShortArray.contentEquals(other: ShortArray): Boolean {\n   definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayEquals\")\npublic actual infix fun IntArray.contentEquals(other: IntArray): Boolean {\n   definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayEquals\")\npublic actual infix fun LongArray.contentEquals(other: LongArray): Boolean {\n   definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayEquals\")\npublic actual infix fun FloatArray.contentEquals(other: FloatArray): Boolean {\n   definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayEquals\")\npublic actual infix fun DoubleArray.contentEquals(other: DoubleArray): Boolean {\n   definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayEquals\")\npublic actual infix fun BooleanArray.contentEquals(other: BooleanArray): Boolean {\n   definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayEquals\")\npublic actual infix fun CharArray.contentEquals(other: CharArray): Boolean {\n   definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayHashCode\")\npublic actual fun <T> Array<out T>.contentHashCode(): Int {\n   definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayHashCode\")\npublic actual fun ByteArray.contentHashCode(): Int {\n   definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayHashCode\")\npublic actual fun ShortArray.contentHashCode(): Int {\n   definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayHashCode\")\npublic actual fun IntArray.contentHashCode(): Int {\n   definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayHashCode\")\npublic actual fun LongArray.contentHashCode(): Int {\n   definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayHashCode\")\npublic actual fun FloatArray.contentHashCode(): Int {\n   definedExternally\n}\n\n/**\n * Returns a hash code based on the contents

of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayHashCode\")\npublic actual fun DoubleArray.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayHashCode\")\npublic actual fun BooleanArray.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayHashCode\")\npublic actual fun CharArray.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayToString\")\npublic actual fun <T> Array<out T>.contentToString(): String {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayToString\")\npublic actual fun ByteArray.contentToString(): String {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayToString\")\npublic actual fun ShortArray.contentToString(): String {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayToString\")\npublic actual fun IntArray.contentToString(): String {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayToString\")\npublic actual fun LongArray.contentToString(): String {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayToString\")\npublic actual fun FloatArray.contentToString(): String {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayToString\")\npublic actual fun DoubleArray.contentToString(): String {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayToString\")\npublic actual fun BooleanArray.contentToString(): String {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayToString\")\npublic actual fun CharArray.contentToString(): String {\n definedExternally\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun <T> Array<out T>.copyInto(destination: Array<T>, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): Array<T> {\n arrayCopy(this, destination, destinationOffset, startIndex, endIndex)\n return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the

subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun ByteArray.copyInto(destination: ByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ByteArray {\n   arrayCopy(this.unsafeCast<Array<Byte>>(), destination.unsafeCast<Array<Byte>>(), destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun ShortArray.copyInto(destination: ShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ShortArray {\n   arrayCopy(this.unsafeCast<Array<Short>>(), destination.unsafeCast<Array<Short>>(), destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): IntArray {\n   arrayCopy(this.unsafeCast<Array<Int>>(), destination.unsafeCast<Array<Int>>(), destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT

_ARGUMENTS\")\npublic actual inline fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): LongArray {\n   arrayCopy(this.unsafeCast<Array<Long>>(), destination.unsafeCast<Array<Long>>(), destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): FloatArray {\n   arrayCopy(this.unsafeCast<Array<Float>>(), destination.unsafeCast<Array<Float>>(), destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray {\n   arrayCopy(this.unsafeCast<Array<Double>>(), destination.unsafeCast<Array<Double>>(), destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray {\n   arrayCopy(this.unsafeCast<Array<Boolean>>(), destination.unsafeCast<Array<Boolean>>(), destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or

[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): CharArray {\n   arrayCopy(this.unsafeCast<Array<Char>>(), destination.unsafeCast<Array<Char>>(), destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\", \"NOTHING_TO_INLINE\")\npublic actual inline fun <T> Array<out T>.copyOf(): Array<T> {\n   return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline fun ByteArray.copyOf(): ByteArray {\n   return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline fun ShortArray.copyOf(): ShortArray {\n   return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline fun IntArray.copyOf(): IntArray {\n   return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic actual fun LongArray.copyOf(): LongArray {\n   return withType(\"LongArray\", this.asDynamic().slice())\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline fun FloatArray.copyOf(): FloatArray {\n   return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline fun DoubleArray.copyOf(): DoubleArray {\n   return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic actual fun BooleanArray.copyOf(): BooleanArray {\n   return withType(\"BooleanArray\", this.asDynamic().slice())\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic actual fun CharArray.copyOf(): CharArray {\n   return withType(\"CharArray\", this.asDynamic().slice())\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun ByteArray.copyOf(newSize: Int): ByteArray {\n   require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n   return fillFrom(this, ByteArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun ShortArray.copyOf(newSize: Int): ShortArray {\n   require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n   return fillFrom(this, ShortArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated

to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun IntArray.copyOf(newSize: Int): IntArray {\n   require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n   return fillFrom(this, IntArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun LongArray.copyOf(newSize: Int): LongArray {\n   require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n   return withType(\"LongArray\", arrayCopyResize(this, newSize, 0L))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun FloatArray.copyOf(newSize: Int): FloatArray {\n   require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n   return fillFrom(this, FloatArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun DoubleArray.copyOf(newSize: Int): DoubleArray {\n   require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n   return fillFrom(this, DoubleArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with `false` values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `false` values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun BooleanArray.copyOf(newSize: Int): BooleanArray {\n   require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n   return withType(\"BooleanArray\", arrayCopyResize(this, newSize, false))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with null char (`\\u0000`) values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with null char (`\\u0000`) values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun CharArray.copyOf(newSize: Int): CharArray {\n   require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n   return withType(\"CharArray\", fillFrom(this, CharArray(newSize)))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with `null` values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `null` values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizingCopyOf\n */\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\")\npublic actual fun <T> Array<out T>.copyOf(newSize: Int): Array<T?> {\n   require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n   return arrayCopyResize(this, newSize, null)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n

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*/\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\")\npublic actual fun <T> Array<out T>.copyOfRange(fromIndex: Int, toIndex: Int): Array<T> {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic actual fun ByteArray.copyOfRange(fromIndex: Int, toIndex: Int): ByteArray {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic actual fun ShortArray.copyOfRange(fromIndex: Int, toIndex: Int): ShortArray {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic actual fun IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic actual fun LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return withType(\"LongArray\", this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic actual fun FloatArray.copyOfRange(fromIndex: Int, toIndex: Int): FloatArray {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic actual fun DoubleArray.copyOfRange(fromIndex: Int, toIndex: Int): DoubleArray {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic actual fun BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return withType(\"BooleanArray\", this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic actual fun CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return withType(\"CharArray\", this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
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fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun FloatArray.fill(element: Float, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param

fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\", \"NOTHING_TO_INLINE\")\npublic actual inline operator fun <T> Array<out T>.plus(element: T): Array<T> {\n return this.asDynamic().concat(arrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun ByteArray.plus(element: Byte): ByteArray {\n return plus(byteArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun ShortArray.plus(element: Short): ShortArray {\n return plus(shortArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun IntArray.plus(element: Int): IntArray {\n return plus(intArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun LongArray.plus(element: Long): LongArray {\n return plus(longArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun FloatArray.plus(element: Float): FloatArray {\n return plus(floatArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun DoubleArray.plus(element: Double): DoubleArray {\n return plus(doubleArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun BooleanArray.plus(element: Boolean): BooleanArray {\n return plus(booleanArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun CharArray.plus(element: Char): CharArray {\n return plus(charArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\")\npublic actual operator fun <T> Array<out T>.plus(elements: Collection<T>): Array<T> {\n return arrayPlusCollection(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun ByteArray.plus(elements: Collection<Byte>): ByteArray {\n return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun ShortArray.plus(elements: Collection<Short>): ShortArray {\n return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing

all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun IntArray.plus(elements: Collection<Int>): IntArray {\n   return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun LongArray.plus(elements: Collection<Long>): LongArray {\n   return arrayPlusCollection(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun FloatArray.plus(elements: Collection<Float>): FloatArray {\n   return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun DoubleArray.plus(elements: Collection<Double>): DoubleArray {\n   return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun BooleanArray.plus(elements: Collection<Boolean>): BooleanArray {\n   return arrayPlusCollection(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun CharArray.plus(elements: Collection<Char>): CharArray {\n   return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\", \"NOTHING_TO_INLINE\")\npublic actual inline operator fun <T> Array<out T>.plus(elements: Array<out T>): Array<T> {\n   return this.asDynamic().concat(elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun ByteArray.plus(elements: ByteArray): ByteArray {\n   return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun ShortArray.plus(elements: ShortArray): ShortArray {\n   return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun IntArray.plus(elements: IntArray): IntArray {\n   return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun LongArray.plus(elements: LongArray): LongArray {\n   return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun FloatArray.plus(elements: FloatArray): FloatArray {\n   return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun DoubleArray.plus(elements: DoubleArray): DoubleArray {\n   return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun BooleanArray.plus(elements: BooleanArray): BooleanArray {\n   return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun CharArray.plus(elements: CharArray): CharArray {\n   return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\", \"NOTHING_TO_INLINE\")\npublic actual inline fun <T> Array<out T>.plusElement(element: T): Array<T> {\n   return this.asDynamic().concat(arrayOf(element))\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample

samples.collections.Arrays.Sorting.sortArray\n */\n@library(\"primitiveArraySort\")\npublic actual fun IntArray.sort(): Unit {\n definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic actual fun LongArray.sort(): Unit {\n if (size > 1) sort { a: Long, b: Long -> a.compareTo(b) }\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@library(\"primitiveArraySort\")\npublic actual fun ByteArray.sort(): Unit {\n definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@library(\"primitiveArraySort\")\npublic actual fun ShortArray.sort(): Unit {\n definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@library(\"primitiveArraySort\")\npublic actual fun DoubleArray.sort(): Unit {\n definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@library(\"primitiveArraySort\")\npublic actual fun FloatArray.sort(): Unit {\n definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@library(\"primitiveArraySort\")\npublic actual fun CharArray.sort(): Unit {\n definedExternally\n}\n\n/**\n * Sorts the array in-place according to the natural order of its elements.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \n * @sample samples.collections.Arrays.Sorting.sortArrayOfComparable\n */\npublic actual fun <T : Comparable<T>> Array<out T>.sort(): Unit {\n if (size > 1) sortArray(this)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T> Array<out T>.sort(comparison: (a: T, b: T) -> Int): Unit {\n if (size > 1) sortArrayWith(this, comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.sort(noinline comparison: (a: Byte, b: Byte) -> Int): Unit {\n asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.sort(noinline comparison: (a: Short, b: Short) -> Int): Unit {\n asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.sort(noinline comparison: (a: Int, b: Int) -> Int): Unit {\n asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.sort(noinline comparison: (a: Long, b: Long) -> Int): Unit {\n asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.sort(noinline comparison: (a: Float, b: Float) -> Int): Unit {\n asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.sort(noinline comparison: (a: Double, b: Double) -> Int): Unit {\n asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.sort(noinline comparison: (a: Char, b: Char) -> Int): Unit {\n asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic actual fun <T> Array<out T>.sortWith(comparator: Comparator<in T>): Unit {\n if (size > 1) sortArrayWith(this, comparator)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun ByteArray.toTypedArray(): Array<Byte> {\n return js(\"[]\").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun ShortArray.toTypedArray(): Array<Short> {\n return js(\"[]\").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun IntArray.toTypedArray(): Array<Int> {\n return js(\"[]\").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun LongArray.toTypedArray(): Array<Long> {\n return js(\"[]\").slice.call(this)\n}\n\n/**\n * Returns a *typed*

object array containing all of the elements of this primitive array.\n */\npublic actual fun FloatArray.toTypedArray(): Array<Float> {\n   return js(\"[]\").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun DoubleArray.toTypedArray(): Array<Double> {\n   return js(\"[]\").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun BooleanArray.toTypedArray(): Array<Boolean> {\n   return js(\"[]\").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun CharArray.toTypedArray(): Array<Char> {\n   return Array(size) { index -> this[index] }\n}\n\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n@file:kotlin.jvm.JvmName(\"ComparisonsKt\")\r\n@file:kotlin.jvm.JvmMultifileClass\r\n\r\npackage kotlin.comparisons\r\n\r\n/**\r\n * Compares two values using the specified functions [selectors] to calculate the result of the comparison.\r\n * The functions are called sequentially, receive the given values [a] and [b] and return [Comparable]\r\n * objects. As soon as the [Comparable] instances returned by a function for [a] and [b] values do not\r\n * compare as equal, the result of that comparison is returned.\r\n *\r\n * @sample samples.comparisons.Comparisons.compareValuesByWithSelectors\r\n */\r\npublic fun <T> compareValuesBy(a: T, b: T, vararg selectors: (T) -> Comparable<*>?): Int {\r\n   require(selectors.size > 0)\r\n   return compareValuesByImpl(a, b, selectors)\r\n}\r\n\r\nprivate fun <T> compareValuesByImpl(a: T, b: T, selectors: Array<out (T) -> Comparable<*>?>): Int {\r\n   for (fn in selectors) {\r\n   val v1 = fn(a)\r\n   val v2 = fn(b)\r\n   val diff = compareValues(v1, v2)\r\n   if (diff != 0) return diff\r\n   }\r\n   return 0\r\n}\r\n\r\n/**\r\n * Compares two values using the specified [selector] function to calculate the result of the comparison.\r\n * The function is applied to the given values [a] and [b] and return [Comparable] objects.\r\n * The result of comparison of these [Comparable] instances is returned.\r\n *\r\n * @sample samples.comparisons.Comparisons.compareValuesByWithSingleSelector\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> compareValuesBy(a: T, b: T, selector: (T) -> Comparable<*>?): Int {\r\n   return compareValues(selector(a), selector(b))\r\n}\r\n\r\n/**\r\n * Compares two values using the specified [selector] function to calculate the result of the comparison.\r\n * The function is applied to the given values [a] and [b] and return objects of type K which are then being\r\n * compared with the given [comparator].\r\n *\r\n * @sample samples.comparisons.Comparisons.compareValuesByWithComparator\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T, K> compareValuesBy(a: T, b: T, comparator: Comparator<in K>, selector: (T) -> K): Int {\r\n   return comparator.compare(selector(a), selector(b))\r\n}\r\n\r\n////\r\n//// Not so useful without type inference for receiver of expression\r\n//// compareValuesWith(v1, v2, compareBy { it.prop1 } thenByDescending { it.prop2 })\r\n///**\r\n// * Compares two values using the specified [comparator].\r\n// */\r\n//@Suppress(\"NOTHING_TO_INLINE\")\r\n//public inline fun <T> compareValuesWith(a: T, b: T, comparator: Comparator<T>): Int = comparator.compare(a, b)\r\n//\r\n\r\n\r\n/**\r\n * Compares two nullable [Comparable] values. Null is considered less than any value.\r\n *\r\n * @sample samples.comparisons.Comparisons.compareValues\r\n */\r\npublic fun <T : Comparable<*>> compareValues(a: T?, b: T?): Int {\r\n   if (a === b) return 0\r\n   if (a == null) return -1\r\n   if (b == null) return 1\r\n\r\n   @Suppress(\"UNCHECKED_CAST\")\r\n   return (a as Comparable<Any>).compareTo(b)\r\n}\r\n\r\n/**\r\n * Creates a comparator using the sequence of functions to calculate a result of comparison.\r\n * The functions are called sequentially, receive the given values `a` and `b` and return [Comparable]\r\n * objects. As soon as the [Comparable] instances returned by a function for `a` and `b` values do not\r\n * compare as equal, the result of that comparison is returned from the [Comparator].\r\n *\r\n * @sample samples.comparisons.Comparisons.compareByWithSelectors\r\n */\r\npublic fun <T> compareBy(vararg selectors: (T) -> Comparable<*>?): Comparator<T> {\r\n   require(selectors.size > 0)\r\n   return Comparator { a, b -> compareValuesByImpl(a, b, selectors) }\r\n}\r\n\r\n\r\n/**\r\n * Creates a comparator using the function to transform value to a [Comparable] instance for comparison.\r\n *\r\n * @sample samples.comparisons.Comparisons.compareByWithSingleSelector\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic

inline fun <T> compareBy(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\r\n   Comparator { a, b -> compareValuesBy(a, b, selector) }\r\n\r\n/**\r\n * Creates a comparator using the [selector] function to transform values being compared and then applying\r\n * the specified [comparator] to compare transformed values.\r\n *\r\n * @sample samples.comparisons.Comparisons.compareByWithComparator\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T, K> compareBy(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =\r\n   Comparator { a, b -> compareValuesBy(a, b, comparator, selector) }\r\n\r\n/**\r\n * Creates a descending comparator using the function to transform value to a [Comparable] instance for comparison.\r\n *\r\n * @sample samples.comparisons.Comparisons.compareByDescendingWithSingleSelector\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> compareByDescending(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\r\n   Comparator { a, b -> compareValuesBy(b, a, selector) }\r\n\r\n/**\r\n * Creates a descending comparator using the [selector] function to transform values being compared and then applying\r\n * the specified [comparator] to compare transformed values.\r\n *\r\n * Note that an order of [comparator] is reversed by this wrapper.\r\n *\r\n * @sample samples.comparisons.Comparisons.compareByDescendingWithComparator\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T, K> compareByDescending(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =\r\n   Comparator { a, b -> compareValuesBy(b, a, comparator, selector) }\r\n\r\n/**\r\n * Creates a comparator comparing values after the primary comparator defined them equal. It uses\r\n * the function to transform value to a [Comparable] instance for comparison.\r\n *\r\n * @sample samples.comparisons.Comparisons.thenBy\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> Comparator<T>.thenBy(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\r\n   Comparator { a, b ->\r\n   val previousCompare = this@thenBy.compare(a, b)\r\n   if (previousCompare != 0) previousCompare else compareValuesBy(a, b, selector)\r\n   }\r\n\r\n/**\r\n * Creates a comparator comparing values after the primary comparator defined them equal. It uses\r\n * the [selector] function to transform values and then compares them with the given [comparator].\r\n *\r\n * @sample samples.comparisons.Comparisons.thenByWithComparator\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T, K> Comparator<T>.thenBy(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =\r\n   Comparator { a, b ->\r\n   val previousCompare = this@thenBy.compare(a, b)\r\n   if (previousCompare != 0) previousCompare else compareValuesBy(a, b, comparator, selector)\r\n   }\r\n\r\n/**\r\n * Creates a descending comparator using the primary comparator and\r\n * the function to transform value to a [Comparable] instance for comparison.\r\n *\r\n * @sample samples.comparisons.Comparisons.thenByDescending\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> Comparator<T>.thenByDescending(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\r\n   Comparator { a, b ->\r\n   val previousCompare = this@thenByDescending.compare(a, b)\r\n   if (previousCompare != 0) previousCompare else compareValuesBy(b, a, selector)\r\n   }\r\n\r\n/**\r\n * Creates a descending comparator comparing values after the primary comparator defined them equal. It uses\r\n * the [selector] function to transform values and then compares them with the given [comparator].\r\n *\r\n * @sample samples.comparisons.Comparisons.thenByDescendingWithComparator\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T, K> Comparator<T>.thenByDescending(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =\r\n   Comparator { a, b ->\r\n   val previousCompare = this@thenByDescending.compare(a, b)\r\n   if (previousCompare != 0) previousCompare else compareValuesBy(b, a, comparator, selector)\r\n   }\r\n\r\n\r\n/**\r\n * Creates a comparator using the primary comparator and function to calculate a result of comparison.\r\n *\r\n * @sample samples.comparisons.Comparisons.thenComparator\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> Comparator<T>.thenComparator(crossinline comparison: (a: T, b: T) -> Int): Comparator<T> =\r\n   Comparator { a, b ->\r\n   val previousCompare = this@thenComparator.compare(a, b)\r\n   if (previousCompare != 0) previousCompare else comparison(a, b)\r\n   }\r\n\r\n/**\r\n * Combines this comparator and the given [comparator] such that the latter is applied only\r\n * when the former considered values equal.\r\n *\r\n * @sample

samples.comparisons.Comparisons.then\r\n */\r\npublic infix fun <T> Comparator<T>.then(comparator: Comparator<in T>): Comparator<T> =\r\n   Comparator { a, b ->\r\n   val previousCompare = this@then.compare(a, b)\r\n   if (previousCompare != 0) previousCompare else comparator.compare(a, b)\r\n   }\r\n\r\n/**\r\n * Combines this comparator and the given [comparator] such that the latter is applied only\r\n * when the former considered values equal.\r\n *\r\n * @sample samples.comparisons.Comparisons.thenDescending\r\n */\r\npublic infix fun <T> Comparator<T>.thenDescending(comparator: Comparator<in T>): Comparator<T> =\r\n   Comparator<T> { a, b ->\r\n   val previousCompare = this@thenDescending.compare(a, b)\r\n   if (previousCompare != 0) previousCompare else comparator.compare(b, a)\r\n   }\r\n\r\n// Not so useful without type inference for receiver of expression\r\n/**\r\n * Extends the given [comparator] of non-nullable values to a comparator of nullable values\r\n * considering `null` value less than any other value.\r\n *\r\n * @sample samples.comparisons.Comparisons.nullsFirstLastWithComparator\r\n */\r\npublic fun <T : Any> nullsFirst(comparator: Comparator<in T>): Comparator<T?> =\r\n   Comparator { a, b ->\r\n   when {\r\n   a === b -> 0\r\n   a == null -> -1\r\n   b == null -> 1\r\n   else -> comparator.compare(a, b)\r\n   }\r\n   }\r\n\r\n/**\r\n * Provides a comparator of nullable [Comparable] values\r\n * considering `null` value less than any other value.\r\n *\r\n * @sample samples.comparisons.Comparisons.nullsFirstLastComparator\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T : Comparable<T>> nullsFirst(): Comparator<T?> = nullsFirst(naturalOrder())\r\n\r\n/**\r\n * Extends the given [comparator] of non-nullable values to a comparator of nullable values\r\n * considering `null` value greater than any other value.\r\n *\r\n * @sample samples.comparisons.Comparisons.nullsFirstLastWithComparator\r\n */\r\npublic fun <T : Any> nullsLast(comparator: Comparator<in T>): Comparator<T?> =\r\n   Comparator { a, b ->\r\n   when {\r\n   a === b -> 0\r\n   a == null -> 1\r\n   b == null -> -1\r\n   else -> comparator.compare(a, b)\r\n   }\r\n   }\r\n\r\n/**\r\n * Provides a comparator of nullable [Comparable] values\r\n * considering `null` value greater than any other value.\r\n *\r\n * @sample samples.comparisons.Comparisons.nullsFirstLastComparator\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T : Comparable<T>> nullsLast(): Comparator<T?> = nullsLast(naturalOrder())\r\n\r\n/**\r\n * Returns a comparator that compares [Comparable] objects in natural order.\r\n *\r\n * @sample samples.comparisons.Comparisons.naturalOrderComparator\r\n */\r\npublic fun <T : Comparable<T>> naturalOrder(): Comparator<T> = @Suppress(\"UNCHECKED_CAST\") (NaturalOrderComparator as Comparator<T>)\r\n\r\n/**\r\n * Returns a comparator that compares [Comparable] objects in reversed natural order.\r\n *\r\n * @sample samples.comparisons.Comparisons.nullsFirstLastWithComparator\r\n */\r\npublic fun <T : Comparable<T>> reverseOrder(): Comparator<T> = @Suppress(\"UNCHECKED_CAST\") (ReverseOrderComparator as Comparator<T>)\r\n\r\n/**\r\n * Returns a comparator that imposes the reverse ordering of this comparator.\r\n *\r\n * @sample samples.comparisons.Comparisons.reversed\r\n */\r\npublic fun <T> Comparator<T>.reversed(): Comparator<T> = when (this) {\r\n   is ReversedComparator -> this.comparator\r\n   NaturalOrderComparator -> @Suppress(\"UNCHECKED_CAST\") (ReverseOrderComparator as Comparator<T>)\r\n   ReverseOrderComparator -> @Suppress(\"UNCHECKED_CAST\") (NaturalOrderComparator as Comparator<T>)\r\n   else -> ReversedComparator(this)\r\n}\r\n\r\n\r\n\r\nprivate class ReversedComparator<T>(public val comparator: Comparator<T>) : Comparator<T> {\r\n   override fun compare(a: T, b: T): Int = comparator.compare(b, a)\r\n   @Suppress(\"VIRTUAL_MEMBER_HIDDEN\")\r\n   fun reversed(): Comparator<T> = comparator\r\n}\r\n\r\n\r\n\r\nprivate object NaturalOrderComparator : Comparator<Comparable<Any>> {\r\n   override fun compare(a: Comparable<Any>, b: Comparable<Any>): Int = a.compareTo(b)\r\n   @Suppress(\"VIRTUAL_MEMBER_HIDDEN\")\r\n   fun reversed(): Comparator<Comparable<Any>> = ReverseOrderComparator\r\n}\r\n\r\n\r\n\r\nprivate object ReverseOrderComparator : Comparator<Comparable<Any>> {\r\n   override fun compare(a: Comparable<Any>, b: Comparable<Any>): Int = b.compareTo(a)\r\n   @Suppress(\"VIRTUAL_MEMBER_HIDDEN\")\r\n   fun reversed(): Comparator<Comparable<Any>> = NaturalOrderComparator\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0

license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin\r\n\r\n\r\npublic actual interface Comparator<T> {\r\n @JsName(\"compare\")\r\n actual fun compare(a: T, b: T): Int\r\n}\r\n\r\npublic actual inline fun <T> Comparator(crossinline comparison: (a: T, b: T) -> Int): Comparator<T> = object : Comparator<T> {\r\n override fun compare(a: T, b: T): Int = comparison(a, b)\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"StandardKt\")\r\npackage kotlin\r\n\r\nimport kotlin.contracts.*\r\n\r\n/**\r\n * An exception is thrown to indicate that a method body remains to be implemented.\r\n */\r\npublic class NotImplementedError(message: String = \"An operation is not implemented.\") : Error(message)\r\n\r\n/**\r\n * Always throws [NotImplementedError] stating that operation is not implemented.\r\n */\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun TODO(): Nothing = throw NotImplementedError()\r\n\r\n/**\r\n * Always throws [NotImplementedError] stating that operation is not implemented.\r\n *\r\n * @param reason a string explaining why the implementation is missing.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun TODO(reason: String): Nothing = throw NotImplementedError(\"An operation is not implemented: $reason\")\r\n\r\n\r\n\r\n/**\r\n * Calls the specified function [block] and returns its result.\r\n *\r\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#run).\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <R> run(block: () -> R): R {\r\n contract {\r\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\r\n }\r\n return block()\r\n}\r\n\r\n/**\r\n * Calls the specified function [block] with `this` value as its receiver and returns its result.\r\n *\r\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#run).\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T, R> T.run(block: T.() -> R): R {\r\n contract {\r\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\r\n }\r\n return block()\r\n}\r\n\r\n/**\r\n * Calls the specified function [block] with the given [receiver] as its receiver and returns its result.\r\n *\r\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#with).\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T, R> with(receiver: T, block: T.() -> R): R {\r\n contract {\r\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\r\n }\r\n return receiver.block()\r\n}\r\n\r\n/**\r\n * Calls the specified function [block] with `this` value as its receiver and returns `this` value.\r\n *\r\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#apply).\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> T.apply(block: T.() -> Unit): T {\r\n contract {\r\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\r\n }\r\n block()\r\n return this\r\n}\r\n\r\n/**\r\n * Calls the specified function [block] with `this` value as its argument and returns `this` value.\r\n *\r\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#also).\r\n */\r\n@kotlin.internal.InlineOnly\r\n@SinceKotlin(\"1.1\")\r\npublic inline fun <T> T.also(block: (T) -> Unit): T {\r\n contract {\r\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\r\n }\r\n block(this)\r\n return this\r\n}\r\n\r\n/**\r\n * Calls the specified function [block] with `this` value as its argument and returns its result.\r\n *\r\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#let).\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T, R> T.let(block: (T) -> R): R {\r\n contract {\r\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\r\n }\r\n return block(this)\r\n}\r\n\r\n/**\r\n * Returns `this` value if it satisfies the given [predicate] or `null`, if it doesn't.\r\n */\r\n@kotlin.internal.InlineOnly\r\n@SinceKotlin(\"1.1\")\r\npublic inline fun <T> T.takeIf(predicate: (T) -> Boolean): T? {\r\n contract {\r\n callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)\r\n }\r\n return if (predicate(this)) this else null\r\n}\r\n\r\n/**\r\n * Returns `this` value if it _does not_ satisfy the given [predicate] or `null`, if it does.\r\n */\r\n@kotlin.internal.InlineOnly\r\n@SinceKotlin(\"1.1\")\r\npublic inline fun <T> T.takeUnless(predicate: (T) -> Boolean): T? {\r\n contract {\r\n callsInPlace(predicate,

InvocationKind.EXACTLY_ONCE)\r\n   }\r\n   return if (!predicate(this)) this else null\r\n}\r\n\r\n/**\r\n * Executes the given function [action] specified number of [times].\r\n *\r\n * A zero-based index of current iteration is passed as a parameter to [action].\r\n *\r\n * @sample samples.misc.ControlFlow.repeat\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun repeat(times: Int, action: (Int) -> Unit) {\r\n   contract { callsInPlace(action) }\r\n\r\n   for (index in 0 until times) {\r\n   action(index)\r\n   }\r\n}\r\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.comparisons\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.js.*\n\n/**\n * Returns the greater of two values.\n * If values are equal, returns the first one.\n */\n@SinceKotlin(\"1.1\")\npublic actual fun <T : Comparable<T>> maxOf(a: T, b: T): T {\n   return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun maxOf(a: Byte, b: Byte): Byte {\n   return Math.max(a.toInt(), b.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun maxOf(a: Short, b: Short): Short {\n   return Math.max(a.toInt(), b.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun maxOf(a: Int, b: Int): Int {\n   return Math.max(a, b)\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@Suppress(\"DEPRECATION_ERROR\", \"NOTHING_TO_INLINE\")\npublic actual inline fun maxOf(a: Long, b: Long): Long {\n   return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun maxOf(a: Float, b: Float): Float {\n   return Math.max(a, b)\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun maxOf(a: Double, b: Double): Double {\n   return Math.max(a, b)\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\npublic actual fun <T : Comparable<T>> maxOf(a: T, b: T, c: T): T {\n   return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun maxOf(a: Byte, b: Byte, c: Byte): Byte {\n   return Math.max(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun maxOf(a: Short, b: Short, c: Short): Short {\n   return Math.max(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun maxOf(a: Int, b: Int, c: Int): Int {\n   return Math.max(a, b, c)\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Long, b: Long, c: Long): Long {\n   return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun maxOf(a: Float, b: Float, c: Float): Float {\n   return Math.max(a, b, c)\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun maxOf(a: Double, b: Double, c: Double): Double {\n   return Math.max(a, b, c)\n}\n\n/**\n * Returns the smaller of two values.\n * If values are equal, returns the first one.\n */\n@SinceKotlin(\"1.1\")\npublic actual fun <T : Comparable<T>> minOf(a: T, b: T): T {\n   return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n

*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun minOf(a: Byte, b: Byte): Byte {\n   return Math.min(a.toInt(), b.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun minOf(a: Short, b: Short): Short {\n   return Math.min(a.toInt(), b.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun minOf(a: Int, b: Int): Int {\n   return Math.min(a, b)\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@Suppress(\"DEPRECATION_ERROR\", \"NOTHING_TO_INLINE\")\npublic actual inline fun minOf(a: Long, b: Long): Long {\n   return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun minOf(a: Float, b: Float): Float {\n   return Math.min(a, b)\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun minOf(a: Double, b: Double): Double {\n   return Math.min(a, b)\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\npublic actual fun <T : Comparable<T>> minOf(a: T, b: T, c: T): T {\n return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun minOf(a: Byte, b: Byte, c: Byte): Byte {\n   return Math.min(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun minOf(a: Short, b: Short, c: Short): Short {\n   return Math.min(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun minOf(a: Int, b: Int, c: Int): Int {\n   return Math.min(a, b, c)\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Long, b: Long, c: Long): Long {\n   return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun minOf(a: Float, b: Float, c: Float): Float {\n   return Math.min(a, b, c)\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun minOf(a: Double, b: Double, c: Double): Double {\n   return Math.min(a, b, c)\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"CollectionsKt\")\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns 1st *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component1(): T {\n   return get(0)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component2(): T {\n   return get(1)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component3(): T {\n   return get(2)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component4(): T {\n   return get(3)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component5(): T {\n   return get(4)\n}\n\n/**\n * Returns `true` if [element] is found in the collection.\n */\npublic operator fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.contains(element: T): Boolean {\n   if (this is Collection)\n

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return contains(element)\n    return indexOf(element) >= 0\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this collection.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic fun <T> Iterable<T>.elementAt(index: Int): T {\n if (this is List)\n        return get(index)\n    return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"Collection doesn't contain element at index $index.\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this list.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.elementAt(index: Int): T {\n    return get(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this collection.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\npublic fun <T> Iterable<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n    if (this is List)\n        return this.getOrElse(index, defaultValue)\n    if (index < 0)\n        return defaultValue(index)\n    val iterator = iterator()\n    var count = 0\n    while (iterator.hasNext()) {\n        val element = iterator.next()\n        if (index == count++)\n            return element\n    }\n    return defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this list.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this collection.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\npublic fun <T> Iterable<T>.elementAtOrNull(index: Int): T? {\n    if (this is List)\n        return this.getOrNull(index)\n    if (index < 0)\n        return null\n    val iterator = iterator()\n    var count = 0\n    while (iterator.hasNext()) {\n        val element = iterator.next()\n        if (index == count++)\n            return element\n    }\n    return null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this list.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.elementAtOrNull(index: Int): T? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.find(predicate: (T) -> Boolean): T? {\n    return firstOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.findLast(predicate: (T) -> Boolean): T? {\n    return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.findLast(predicate: (T) -> Boolean): T? {\n    return lastOrNull(predicate)\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the collection is empty.\n */\npublic fun <T> Iterable<T>.first(): T {\n    when (this) {\n        is List -> return this.first()\n        else -> {\n            val iterator = iterator()\n            if (!iterator.hasNext())\n                throw NoSuchElementException(\"Collection is empty.\")\n            return iterator.next()\n        }\n    }\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the list is empty.\n */\npublic fun <T> List<T>.first(): T {\n    if (isEmpty())\n        throw NoSuchElementException(\"List is empty.\")\n    return this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun <T> Iterable<T>.first(predicate: (T) -> Boolean): T {\n    for (element in this) if (predicate(element)) return element\n    throw NoSuchElementException(\"Collection contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element, or `null` if the collection is empty.\n */\npublic fun <T> Iterable<T>.firstOrNull(): T? {\n    when (this) {\n        is List -> {\n            if (isEmpty())\n                return null\n            else\n                return this[0]\n        }\n        else -> {\n            val iterator = iterator()\n            if (!iterator.hasNext())\n                return null\n            return iterator.next()\n        }\n    }\n}\n\n/**\n * Returns the first element, or `null` if the list is empty.\n */\npublic fun <T> List<T>.firstOrNull(): T? {\n    return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun <T>
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Iterable<T>.firstOrNull(predicate: (T) -> Boolean): T? {\n    for (element in this) if (predicate(element)) return element\n    return null\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this list.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.getOrElse(index: Int, defaultValue: (Int) -> T): T {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this list.\n */\npublic fun <T> List<T>.getOrNull(index: Int): T? {\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns first index of [element], or -1 if the collection does not contain element.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.indexOf(element: T): Int {\n    if (this is List) return this.indexOf(element)\n    var index = 0\n    for (item in this) {\n        checkIndexOverflow(index)\n        if (element == item)\n            return index\n        index++\n    }\n    return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the list does not contain element.\n */\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\") // false warning, extension takes precedence in some cases\npublic fun <@kotlin.internal.OnlyInputTypes T> List<T>.indexOf(element: T): Int {\n    return indexOf(element)\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the collection does not contain such element.\n */\npublic inline fun <T> Iterable<T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n    var index = 0\n    for (item in this) {\n        checkIndexOverflow(index)\n        if (predicate(item))\n            return index\n        index++\n    }\n    return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the list does not contain such element.\n */\npublic inline fun <T> List<T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n    var index = 0\n    for (item in this) {\n        if (predicate(item))\n            return index\n        index++\n    }\n    return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the collection does not contain such element.\n */\npublic inline fun <T> Iterable<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n    var lastIndex = -1\n    var index = 0\n    for (item in this) {\n        checkIndexOverflow(index)\n        if (predicate(item))\n            lastIndex = index\n        index++\n    }\n    return lastIndex\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the list does not contain such element.\n */\npublic inline fun <T> List<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n    val iterator = this.listIterator(size)\n    while (iterator.hasPrevious()) {\n        if (predicate(iterator.previous())) {\n            return iterator.nextIndex()\n        }\n    }\n    return -1\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the collection is empty.\n */\npublic fun <T> Iterable<T>.last(): T {\n    when (this) {\n        is List -> return this.last()\n        else -> {\n            val iterator = iterator()\n            if (!iterator.hasNext())\n                throw NoSuchElementException(\"Collection is empty.\")\n            var last = iterator.next()\n            while (iterator.hasNext())\n                last = iterator.next()\n            return last\n        }\n    }\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the list is empty.\n */\npublic fun <T> List<T>.last(): T {\n    if (isEmpty())\n        throw NoSuchElementException(\"List is empty.\")\n    return this[lastIndex]\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun <T> Iterable<T>.last(predicate: (T) -> Boolean): T {\n    var last: T? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            last = element\n            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException(\"Collection contains no element matching the predicate.\")\n    @Suppress(\"UNCHECKED_CAST\")\n    return last as T\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun <T> List<T>.last(predicate: (T) -> Boolean): T {\n    val iterator = this.listIterator(size)\n    while (iterator.hasPrevious()) {\n        val element = iterator.previous()\n        if (predicate(element)) return element\n    }\n    throw NoSuchElementException(\"List contains no element matching the predicate.\")\n}\n\n/**\n * Returns last index of [element], or -1 if the collection does not contain element.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.lastIndexOf(element: T): Int {\n    if (this is List) return this.lastIndexOf(element)\n    var lastIndex = -1\n    var index = 0\n    for (item in this) {\n        checkIndexOverflow(index)\n        if (element == item)\n            lastIndex = index\n        index++\n    }\n    return lastIndex\n}\n\n/**\n * Returns last index of [element], or -1 if the list does not contain element.\n */\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\") // false warning, extension takes precedence in
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some cases\npublic fun <@kotlin.internal.OnlyInputTypes T> List<T>.lastIndexOf(element: T): Int {\n    return lastIndexOf(element)\n}\n\n/**\n * Returns the last element, or `null` if the collection is empty.\n */\npublic fun <T> Iterable<T>.lastOrNull(): T? {\n    when (this) {\n        is List -> return if (isEmpty()) null else this[size - 1]\n        else -> {\n            val iterator = iterator()\n            if (!iterator.hasNext())\n                return null\n            var last = iterator.next()\n            while (iterator.hasNext())\n                last = iterator.next()\n            return last\n        }\n    }\n}\n\n/**\n * Returns the last element, or `null` if the list is empty.\n */\npublic fun <T> List<T>.lastOrNull(): T? {\n    return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun <T> Iterable<T>.lastOrNull(predicate: (T) -> Boolean): T? {\n    var last: T? = null\n    for (element in this) {\n        if (predicate(element)) {\n            last = element\n        }\n    }\n    return last\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun <T> List<T>.lastOrNull(predicate: (T) -> Boolean): T? {\n    val iterator = this.listIterator(size)\n    while (iterator.hasPrevious()) {\n        val element = iterator.previous()\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns a random element from this collection.\n * \n * @throws NoSuchElementException if this collection is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.random(): T {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this collection using the specified source of randomness.\n * \n * @throws NoSuchElementException if this collection is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun <T> Collection<T>.random(random: Random): T {\n    if (isEmpty())\n        throw NoSuchElementException(\"Collection is empty.\")\n    return elementAt(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the collection is empty or has more than one element.\n */\npublic fun <T> Iterable<T>.single(): T {\n    when (this) {\n        is List -> return this.single()\n        else -> {\n            val iterator = iterator()\n            if (!iterator.hasNext())\n                throw NoSuchElementException(\"Collection is empty.\")\n            val single = iterator.next()\n            if (iterator.hasNext())\n                throw IllegalArgumentException(\"Collection has more than one element.\")\n            return single\n        }\n    }\n}\n\n/**\n * Returns the single element, or throws an exception if the list is empty or has more than one element.\n */\npublic fun <T> List<T>.single(): T {\n    return when (size) {\n        0 -> throw NoSuchElementException(\"List is empty.\")\n        1 -> this[0]\n        else -> throw IllegalArgumentException(\"List has more than one element.\")\n    }\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun <T> Iterable<T>.single(predicate: (T) -> Boolean): T {\n    var single: T? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException(\"Collection contains more than one matching element.\")\n            single = element\n            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException(\"Collection contains no element matching the predicate.\")\n    @Suppress(\"UNCHECKED_CAST\")\n    return single as T\n}\n\n/**\n * Returns single element, or `null` if the collection is empty or has more than one element.\n */\npublic fun <T> Iterable<T>.singleOrNull(): T? {\n    when (this) {\n        is List -> return if (size == 1) this[0] else null\n        else -> {\n            val iterator = iterator()\n            if (!iterator.hasNext())\n                return null\n            val single = iterator.next()\n            if (iterator.hasNext())\n                return null\n            return single\n        }\n    }\n}\n\n/**\n * Returns single element, or `null` if the list is empty or has more than one element.\n */\npublic fun <T> List<T>.singleOrNull(): T? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun <T> Iterable<T>.singleOrNull(predicate: (T) -> Boolean): T? {\n    var single: T? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Iterable<T>.drop(n: Int): List<T> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return toList()\n    val list: ArrayList<T>\n    if (this is Collection<*>) {\n        val resultSize = size - n\n        if (resultSize <= 0)\n
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 return emptyList()\n        if (resultSize == 1)\n            return listOf(last())\n        list = ArrayList<T>(resultSize)\n
 if (this is List<T>) {\n            if (this is RandomAccess) {\n                for (index in n until size)\n
list.add(this[index])\n            } else {\n                for (item in listIterator(n))\n                    list.add(item)\n            }\n
        return list\n        }\n    }\n    else {\n        list = ArrayList<T>()\n    }\n    var count = 0\n    for (item in this) {\n
 if (count >= n) list.add(item) else ++count\n    }\n    return list.optimizeReadOnlyList()\n}\n\n/**\n * Returns a list
containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n *
\n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> List<T>.dropLast(n: Int):
List<T> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun <T>
List<T>.dropLastWhile(predicate: (T) -> Boolean): List<T> {\n    if (!isEmpty()) {\n        val iterator =
listIterator(size)\n        while (iterator.hasPrevious()) {\n            if (!predicate(iterator.previous())) {\n                return
take(iterator.nextIndex() + 1)\n            }\n        }\n    }\n    return emptyList()\n}\n\n/**\n * Returns a list containing
all elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic inline fun <T> Iterable<T>.dropWhile(predicate:
(T) -> Boolean): List<T> {\n    var yielding = false\n    val list = ArrayList<T>()\n    for (item in this)\n        if
(yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n            list.add(item)\n            yielding = true\n
 }\n    return list\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\npublic
inline fun <T> Iterable<T>.filter(predicate: (T) -> Boolean): List<T> {\n    return filterTo(ArrayList<T>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param
[predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate
evaluation on the element.\n */\npublic inline fun <T> Iterable<T>.filterIndexed(predicate: (index: Int, T) ->
Boolean): List<T> {\n    return filterIndexedTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Appends all elements
matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an
element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline
fun <T, C : MutableCollection<in T>> Iterable<T>.filterIndexedTo(destination: C, predicate: (index: Int, T) ->
Boolean): C {\n    forEachIndexed { index, element ->\n        if (predicate(index, element))
destination.add(element)\n    }\n    return destination\n}\n\n/**\n * Returns a list containing all elements that are
instances of specified type parameter R.\n */\npublic inline fun <reified R> Iterable<*>.filterIsInstance():
List<@kotlin.internal.NoInfer R> {\n    return filterIsInstanceTo(ArrayList<R>())\n}\n\n/**\n * Appends all
elements that are instances of specified type parameter R to the given [destination].\n */\npublic inline fun <reified
R, C : MutableCollection<in R>> Iterable<*>.filterIsInstanceTo(destination: C): C {\n    for (element in this) if
(element is R) destination.add(element)\n    return destination\n}\n\n/**\n * Returns a list containing all elements
not matching the given [predicate].\n */\npublic inline fun <T> Iterable<T>.filterNot(predicate: (T) -> Boolean):
List<T> {\n    return filterNotTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing all elements that
are not `null`.\n */\npublic fun <T : Any> Iterable<T?>.filterNotNull(): List<T> {\n    return
filterNotNullTo(ArrayList<T>())\n}\n\n/**\n * Appends all elements that are not `null` to the given [destination].\n
*/\npublic fun <C : MutableCollection<in T>, T : Any> Iterable<T?>.filterNotNullTo(destination: C): C {\n    for
(element in this) if (element != null) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all
elements not matching the given [predicate] to the given [destination].\n */\npublic inline fun <T, C :
MutableCollection<in T>> Iterable<T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C {\n    for (element
in this) if (!predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all elements
matching the given [predicate] to the given [destination].\n */\npublic inline fun <T, C : MutableCollection<in T>>
Iterable<T>.filterTo(destination: C, predicate: (T) -> Boolean): C {\n    for (element in this) if (predicate(element))
destination.add(element)\n    return destination\n}\n\n/**\n * Returns a list containing elements at indices in the
specified [indices] range.\n */\npublic fun <T> List<T>.slice(indices: IntRange): List<T> {\n    if
(indices.isEmpty()) return listOf()\n    return this.subList(indices.start, indices.endInclusive + 1).toList()\n}\n\n/**\n
* Returns a list containing elements at specified [indices].\n */\npublic fun <T> List<T>.slice(indices:
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Iterable<Int>): List<T> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<T>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun <T> Iterable<T>.take(n: Int): List<T> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (this is Collection<T>) {\n        if (n >= size) return toList()\n        if (n == 1) return listOf(first())\n    }\n    var count = 0\n    val list = ArrayList<T>(n)\n    for (item in this) {\n        if (count++ == n)\n            break\n        list.add(item)\n    }\n    return list.optimizeReadOnlyList()\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun <T> List<T>.takeLast(n: Int): List<T> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(last())\n    val list = ArrayList<T>(n)\n    if (this is RandomAccess) {\n        for (index in size - n until size)\n            list.add(this[index])\n    } else {\n        for (item in listIterator(size - n))\n            list.add(item)\n    }\n    return list\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun <T> List<T>.takeLastWhile(predicate: (T) -> Boolean): List<T> {\n    if (isEmpty())\n        return emptyList()\n    val iterator = listIterator(size)\n    while (iterator.hasPrevious()) {\n        if (!predicate(iterator.previous())) {\n            iterator.next()\n            val expectedSize = size - iterator.nextIndex()\n            if (expectedSize == 0) return emptyList()\n            return ArrayList<T>(expectedSize).apply {\n                while (iterator.hasNext())\n                    add(iterator.next())\n            }\n        }\n    }\n    return toList()\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun <T> Iterable<T>.takeWhile(predicate: (T) -> Boolean): List<T> {\n    val list = ArrayList<T>()\n    for (item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Reverses elements in the list in-place.\n */\npublic expect fun <T> MutableList<T>.reverse(): Unit\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun <T> Iterable<T>.reversed(): List<T> {\n    if (this is Collection && size <= 1) return toList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Sorts elements in the list in-place according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>> MutableList<T>.sortBy(crossinline selector: (T) -> R?): Unit {\n    if (size > 1) sortWith(compareBy(selector))\n}\n\n/**\n * Sorts elements in the list in-place descending according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>> MutableList<T>.sortByDescending(crossinline selector: (T) -> R?): Unit {\n    if (size > 1) sortWith(compareByDescending(selector))\n}\n\n/**\n * Sorts elements in the list in-place descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> MutableList<T>.sortDescending(): Unit {\n    sortWith(reverseOrder())\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Iterable<T>.sorted(): List<T> {\n    if (this is Collection) {\n        if (size <= 1) return this.toList()\n        @Suppress(\"UNCHECKED_CAST\")\n        return (toTypedArray<Comparable<T>>() as Array<T>).apply { sort() }.asList()\n    }\n    return toMutableList().apply { sort() }\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>> Iterable<T>.sortedBy(crossinline selector: (T) -> R?): List<T> {\n    return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>>
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Iterable<T>.sortedByDescending(crossinline selector: (T) -> R?): List<T> {\n    return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Iterable<T>.sortedDescending(): List<T> {\n    return sortedWith(reverseOrder())\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T> Iterable<T>.sortedWith(comparator: Comparator<in T>): List<T> {\n    if (this is Collection) {\n        if (size <= 1) return this.toList()\n        @Suppress(\"UNCHECKED_CAST\")\n        return (toTypedArray<Any?>() as Array<T>).apply { sortWith(comparator) }.asList()\n    }\n    return toMutableList().apply { sortWith(comparator) }\n}\n\n/**\n * Returns an array of Boolean containing all of the elements of this collection.\n */\npublic fun Collection<Boolean>.toBooleanArray(): BooleanArray {\n    val result = BooleanArray(size)\n    var index = 0\n    for (element in this)\n        result[index++] = element\n    return result\n}\n\n/**\n * Returns an array of Byte containing all of the elements of this collection.\n */\npublic fun Collection<Byte>.toByteArray(): ByteArray {\n    val result = ByteArray(size)\n    var index = 0\n    for (element in this)\n        result[index++] = element\n    return result\n}\n\n/**\n * Returns an array of Char containing all of the elements of this collection.\n */\npublic fun Collection<Char>.toCharArray(): CharArray {\n    val result = CharArray(size)\n    var index = 0\n    for (element in this)\n        result[index++] = element\n    return result\n}\n\n/**\n * Returns an array of Double containing all of the elements of this collection.\n */\npublic fun Collection<Double>.toDoubleArray(): DoubleArray {\n    val result = DoubleArray(size)\n    var index = 0\n    for (element in this)\n        result[index++] = element\n    return result\n}\n\n/**\n * Returns an array of Float containing all of the elements of this collection.\n */\npublic fun Collection<Float>.toFloatArray(): FloatArray {\n    val result = FloatArray(size)\n    var index = 0\n    for (element in this)\n        result[index++] = element\n    return result\n}\n\n/**\n * Returns an array of Int containing all of the elements of this collection.\n */\npublic fun Collection<Int>.toIntArray(): IntArray {\n    val result = IntArray(size)\n    var index = 0\n    for (element in this)\n        result[index++] = element\n    return result\n}\n\n/**\n * Returns an array of Long containing all of the elements of this collection.\n */\npublic fun Collection<Long>.toLongArray(): LongArray {\n    val result = LongArray(size)\n    var index = 0\n    for (element in this)\n        result[index++] = element\n    return result\n}\n\n/**\n * Returns an array of Short containing all of the elements of this collection.\n */\npublic fun Collection<Short>.toShortArray(): ShortArray {\n    val result = ShortArray(size)\n    var index = 0\n    for (element in this)\n        result[index++] = element\n    return result\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given collection.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original collection.\n */\npublic inline fun <T, K, V> Iterable<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {\n    val capacity = mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing the elements from the given collection indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original collection.\n */\npublic inline fun <T, K> Iterable<T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n    val capacity = mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, T>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given collection.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original collection.\n */\npublic inline fun <T, K, V> Iterable<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n    val capacity = mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given
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collection\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <T, K, M : MutableMap<in K, in T>> Iterable<T>.associateByTo(destination: M, keySelector: (T) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given collection.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Iterable<T>.associateByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given collection.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Iterable<T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Returns a [Map] where keys are elements from the given collection and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original collection.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n */\n@SinceKotlin(\"1.3\")\npublic inline fun <K, V> Iterable<K>.associateWith(valueSelector: (K) -> V): Map<K, V> {\n val result = LinkedHashMap<K, V>(mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given collection,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n */\n@SinceKotlin(\"1.3\")\npublic inline fun <K, V, M : MutableMap<in K, in V>> Iterable<K>.associateWithTo(destination: M, valueSelector: (K) -> V): M {\n for (element in this) {\n destination.put(element, valueSelector(element))\n }\n return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <T, C : MutableCollection<in T>> Iterable<T>.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Returns a [HashSet] of all elements.\n */\npublic fun <T> Iterable<T>.toHashSet(): HashSet<T> {\n return toCollection(HashSet<T>(mapCapacity(collectionSizeOrDefault(12))))\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun <T> Iterable<T>.toList(): List<T> {\n if (this is Collection) {\n return when (size) {\n 0 -> emptyList()\n 1 -> listOf(if (this is List) get(0) else iterator().next())\n else -> this.toMutableList()\n }\n }\n return this.toMutableList().optimizeReadOnlyList()\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this collection.\n */\npublic fun <T> Iterable<T>.toMutableList(): MutableList<T> {\n if (this is Collection<T>)\n return this.toMutableList()\n return toCollection(ArrayList<T>())\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this collection.\n */\npublic fun <T> Collection<T>.toMutableList(): MutableList<T> {\n return ArrayList(this)\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original collection.\n */\npublic fun <T> Iterable<T>.toSet(): Set<T> {\n if (this is Collection) {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(if (this is List) this[0] else iterator().next())\n else -> toCollection(LinkedHashSet<T>(mapCapacity(size)))\n }\n }\n return toCollection(LinkedHashSet<T>()).optimizeReadOnlySet()\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original collection.\n */\npublic inline fun <T, R> Iterable<T>.flatMap(transform: (T) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original collection, to the given [destination].\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.flatMapTo(destination: C, transform: (T) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Groups elements of

the original collection by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original collection.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K> Iterable<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {\n   return groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original collection\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original collection.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V> Iterable<T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements of the original collection by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K, M : MutableMap<in K, MutableList<T>>> Iterable<T>.groupByTo(destination: M, keySelector: (T) -> K): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<T>() }\n   list.add(element)\n   }\n   return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original collection\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> Iterable<T>.groupByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<V>() }\n   list.add(valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Creates a [Grouping] source from a collection to be used later with one of group-and-fold operations\n * using the specified [keySelector] function to extract a key from each element.\n * \n * @sample samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K> Iterable<T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {\n   return object : Grouping<T, K> {\n   override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()\n   override fun keyOf(element: T): K = keySelector(element)\n   }\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original collection.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <T, R> Iterable<T>.map(transform: (T) -> R): List<R> {\n   return mapTo(ArrayList<R>(collectionSizeOrDefault(10)), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original collection.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R> Iterable<T>.mapIndexed(transform: (index: Int, T) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(collectionSizeOrDefault(10)), transform)\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each element and its index in the original collection.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R : Any> Iterable<T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): List<R> {\n   return mapIndexedNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original collection\n * and appends only the non-null results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Iterable<T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {\n   forEachIndexed {

index, element -> transform(index, element)?.let { destination.add(it) } }\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original collection\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {\n   var index = 0\n   for (item in this)\n   destination.add(transform(checkIndexOverflow(index++), item))\n   return destination\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each element in the original collection.\n */\npublic inline fun <T, R : Any> Iterable<T>.mapNotNull(transform: (T) -> R?): List<R> {\n   return mapNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each element in the original collection\n * and appends only the non-null results to the given [destination].\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Iterable<T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {\n   forEach { element -> transform(element)?.let { destination.add(it) } }\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original collection\n * and appends the results to the given [destination].\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.mapTo(destination: C, transform: (T) -> R): C {\n   for (item in this)\n   destination.add(transform(item))\n   return destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original collection\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun <T> Iterable<T>.withIndex(): Iterable<IndexedValue<T>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a list containing only distinct elements from the given collection.\n * \n * The elements in the resulting list are in the same order as they were in the source collection.\n */\npublic fun <T> Iterable<T>.distinct(): List<T> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only elements from the given collection\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source collection.\n */\npublic inline fun <T, K> Iterable<T>.distinctBy(selector: (T) -> K): List<T> {\n   val set = HashSet<K>()\n   val list = ArrayList<T>()\n   for (e in this) {\n   val key = selector(e)\n   if (set.add(key))\n   list.add(e)\n   }\n   return list\n}\n\n/**\n * Returns a set containing all elements that are contained by both this set and the specified collection.\n * \n * The returned set preserves the element iteration order of the original collection.\n */\npublic infix fun <T> Iterable<T>.intersect(other: Iterable<T>): Set<T> {\n   val set = this.toMutableSet()\n   set.retainAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this collection and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original collection.\n */\npublic infix fun <T> Iterable<T>.subtract(other: Iterable<T>): Set<T> {\n   val set = this.toMutableSet()\n   set.removeAll(other)\n   return set\n}\n\n/**\n * Returns a mutable set containing all distinct elements from the given collection.\n * \n * The returned set preserves the element iteration order of the original collection.\n */\npublic fun <T> Iterable<T>.toMutableSet(): MutableSet<T> {\n   return when (this) {\n   is Collection<T> -> LinkedHashSet(this)\n   else -> toCollection(LinkedHashSet<T>())\n   }\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original collection.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n */\npublic infix fun <T> Iterable<T>.union(other: Iterable<T>): Set<T> {\n   val set = this.toMutableSet()\n   set.addAll(other)\n   return set\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun <T> Iterable<T>.all(predicate: (T) -> Boolean): Boolean {\n   if (this is Collection && isEmpty()) return true\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if collection has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun <T> Iterable<T>.any(): Boolean {\n   if (this is Collection) return !isEmpty()\n   return iterator().hasNext()\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun <T> Iterable<T>.any(predicate: (T) -> Boolean): Boolean {\n   if (this is Collection && isEmpty()) return false\n   for

(element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns the number of elements in this collection.\n */\npublic fun <T> Iterable<T>.count(): Int {\n if (this is Collection) return size\n var count = 0\n for (element in this) checkCountOverflow(++count)\n return count\n}\n\n/**\n * Returns the number of elements in this collection.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.count(): Int {\n return size\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun <T> Iterable<T>.count(predicate: (T) -> Boolean): Int {\n if (this is Collection && isEmpty()) return 0\n var count = 0\n for (element in this) if (predicate(element)) checkCountOverflow(++count)\n return count\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <T, R> Iterable<T>.fold(initial: R, operation: (acc: R, T) -> R): R {\n var accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original collection.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <T, R> Iterable<T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(checkIndexOverflow(index++), accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun <T, R> List<T>.foldRight(initial: R, operation: (T, acc: R) -> R): R {\n var accumulator = initial\n if (!isEmpty()) {\n val iterator = listIterator(size)\n while (iterator.hasPrevious()) {\n accumulator = operation(iterator.previous(), accumulator)\n }\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original list and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <T, R> List<T>.foldRightIndexed(initial: R, operation: (index: Int, T, acc: R) -> R): R {\n var accumulator = initial\n if (!isEmpty()) {\n val iterator = listIterator(size)\n while (iterator.hasPrevious()) {\n val index = iterator.previousIndex()\n accumulator = operation(index, iterator.previous(), accumulator)\n }\n }\n return accumulator\n}\n\n/**\n * Performs the given [action] on each element.\n */\n@kotlin.internal.HidesMembers\npublic inline fun <T> Iterable<T>.forEach(action: (T) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\npublic inline fun <T> Iterable<T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {\n var index = 0\n for (item in this) action(checkIndexOverflow(index++), item)\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\npublic fun Iterable<Double>.max(): Double? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var max = iterator.next()\n if (max.isNaN()) return max\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (e.isNaN()) return e\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\npublic fun Iterable<Float>.max(): Float? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var max = iterator.next()\n if (max.isNaN()) return max\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (e.isNaN()) return e\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\npublic fun <T : Comparable<T>> Iterable<T>.max(): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var max = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <T, R : Comparable<R>> Iterable<T>.maxBy(selector: (T) -> R): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var maxElem = iterator.next()\n if (!iterator.hasNext()) return maxElem\n var

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maxValue = selector(maxElem)\n    do {\n        val e = iterator.next()\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    } while (iterator.hasNext())\n    return maxElem\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun <T> Iterable<T>.maxWith(comparator: Comparator<in T>): T? {\n val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var max = iterator.next()\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (comparator.compare(max, e) < 0) max = e\n    }\n return max\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\npublic fun Iterable<Double>.min(): Double? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var min = iterator.next()\n    if (min.isNaN()) return min\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (e.isNaN()) return e\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\npublic fun Iterable<Float>.min(): Float? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var min = iterator.next()\n    if (min.isNaN()) return min\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (e.isNaN()) return e\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\npublic fun <T : Comparable<T>> Iterable<T>.min(): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var min = iterator.next()\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <T, R : Comparable<R>> Iterable<T>.minBy(selector: (T) -> R): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var minElem = iterator.next()\n    if (!iterator.hasNext()) return minElem\n    var minValue = selector(minElem)\n    do {\n        val e = iterator.next()\n        val v = selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue = v\n        }\n    } while (iterator.hasNext())\n    return minElem\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun <T> Iterable<T>.minWith(comparator: Comparator<in T>): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var min = iterator.next()\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns `true` if the collection has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun <T> Iterable<T>.none(): Boolean {\n    if (this is Collection) return isEmpty()\n    return !iterator().hasNext()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun <T> Iterable<T>.none(predicate: (T) -> Boolean): Boolean {\n    if (this is Collection && isEmpty()) return true\n    for (element in this) if (predicate(element)) return false\n    return true\n}\n\n/**\n * Performs the given [action] on each element and returns the collection itself afterwards.\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, C : Iterable<T>> C.onEach(action: (T) -> Unit): C {\n    return apply { for (element in this) action(element) }\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <S, T : S> Iterable<T>.reduce(operation: (acc: S, T) -> S): S {\n    val iterator = this.iterator()\n    if (!iterator.hasNext()) throw UnsupportedOperationException(\"Empty collection can't be reduced.\")\n    var accumulator: S = iterator.next()\n    while (iterator.hasNext()) {\n        accumulator = operation(accumulator, iterator.next())\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original collection.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\npublic inline fun <S, T : S> Iterable<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n    val iterator = this.iterator()\n    if (!iterator.hasNext()) throw UnsupportedOperationException(\"Empty collection can't be reduced.\")\n    var index = 1\n    var accumulator: S = iterator.next()\n    while (iterator.hasNext()) {\n        accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with last element
```

and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun <S, T : S> List<T>.reduceRight(operation: (T, acc: S) -> S): S {\n   val iterator = listIterator(size)\n   if (!iterator.hasPrevious())\n   throw UnsupportedOperationException(\"Empty list can't be reduced.\")\n   var accumulator: S = iterator.previous()\n   while (iterator.hasPrevious()) {\n   accumulator = operation(iterator.previous(), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original list and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <S, T : S> List<T>.reduceRightIndexed(operation: (index: Int, T, acc: S) -> S): S {\n   val iterator = listIterator(size)\n   if (!iterator.hasPrevious())\n   throw UnsupportedOperationException(\"Empty list can't be reduced.\")\n   var accumulator: S = iterator.previous()\n   while (iterator.hasPrevious()) {\n   val index = iterator.previousIndex()\n   accumulator = operation(index, iterator.previous(), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the collection.\n */\npublic inline fun <T> Iterable<T>.sumBy(selector: (T) -> Int): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the collection.\n */\npublic inline fun <T> Iterable<T>.sumByDouble(selector: (T) -> Double): Double {\n   var sum: Double = 0.0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns an original collection containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.\n */\npublic fun <T : Any> Iterable<T?>.requireNoNulls(): Iterable<T> {\n   for (element in this) {\n   if (element == null) {\n   throw IllegalArgumentException(\"null element found in $this.\")\n   }\n   }\n   @Suppress(\"UNCHECKED_CAST\")\n   return this as Iterable<T>\n}\n\n/**\n * Returns an original collection containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.\n */\npublic fun <T : Any> List<T?>.requireNoNulls(): List<T> {\n   for (element in this) {\n   if (element == null) {\n   throw IllegalArgumentException(\"null element found in $this.\")\n   }\n   }\n   @Suppress(\"UNCHECKED_CAST\")\n   return this as List<T>\n}\n\n/**\n * Splits this collection into a list of lists each not exceeding the given [size].\n * \n * The last list in the resulting list may have less elements than the given [size].\n * \n * @param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this collection.\n * \n * @sample samples.collections.Collections.Transformations.chunked\n */\n@SinceKotlin(\"1.2\")\npublic fun <T> Iterable<T>.chunked(size: Int): List<List<T>> {\n   return windowed(size, size, partialWindows = true)\n}\n\n/**\n * Splits this collection into several lists each not exceeding the given [size]\n * and applies the given [transform] function to an each.\n * \n * @return list of results of the [transform] applied to an each list.\n * \n * Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * The last list may have less elements than the given [size].\n * \n * @param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this collection.\n * \n * @sample samples.text.Strings.chunkedTransform\n */\n@SinceKotlin(\"1.2\")\npublic fun <T, R> Iterable<T>.chunked(size: Int, transform: (List<T>) -> R): List<R> {\n   return windowed(size, size, partialWindows = true, transform = transform)\n}\n\n/**\n * Returns a list containing all elements of the original collection without the first occurrence of the given [element].\n */\npublic operator fun <T> Iterable<T>.minus(element: T): List<T> {\n   val result = ArrayList<T>(collectionSizeOrDefault(10))\n   var removed = false\n   return this.filterTo(result) { if (!removed && it == element) { removed = true; false } else true }\n}\n\n/**\n * Returns a list containing all elements of the original collection except the elements contained in the given [elements] array.\n * \n * The [elements] array may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n * a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n */\npublic operator fun <T> Iterable<T>.minus(elements: Array<out T>): List<T> {\n   if (elements.isEmpty()) return this.toList()\n   val other = elements.toHashSet()\n   return this.filterNot { it in other }\n}\n\n/**\n * Returns a list containing all elements of

the original collection except the elements contained in the given [elements] collection.\n * \n * The [elements] collection may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n * a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n */\npublic operator fun <T> Iterable<T>.minus(elements: Iterable<T>): List<T> {\n val other = elements.convertToSetForSetOperationWith(this)\n if (other.isEmpty())\n return this.toList()\n return this.filterNot { it in other }\n}\n\n/**\n * Returns a list containing all elements of the original collection except the elements contained in the given [elements] sequence.\n * \n * The [elements] sequence may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n * a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n */\npublic operator fun <T> Iterable<T>.minus(elements: Sequence<T>): List<T> {\n val other = elements.toHashSet()\n if (other.isEmpty())\n return this.toList()\n return this.filterNot { it in other }\n}\n\n/**\n * Returns a list containing all elements of the original collection without the first occurrence of the given [element].\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minusElement(element: T): List<T> {\n return minus(element)\n}\n\n/**\n * Splits the original collection into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */\npublic inline fun <T> Iterable<T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {\n val first = ArrayList<T>()\n val second = ArrayList<T>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Returns a list containing all elements of the original collection and then the given [element].\n */\npublic operator fun <T> Iterable<T>.plus(element: T): List<T> {\n if (this is Collection) return this.plus(element)\n val result = ArrayList<T>()\n result.addAll(this)\n result.add(element)\n return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then the given [element].\n */\npublic operator fun <T> Collection<T>.plus(element: T): List<T> {\n val result = ArrayList<T>(size + 1)\n result.addAll(this)\n result.add(element)\n return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then all elements of the given [elements] array.\n */\npublic operator fun <T> Iterable<T>.plus(elements: Array<out T>): List<T> {\n if (this is Collection) return this.plus(elements)\n val result = ArrayList<T>()\n result.addAll(this)\n result.addAll(elements)\n return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then all elements of the given [elements] array.\n */\npublic operator fun <T> Collection<T>.plus(elements: Array<out T>): List<T> {\n val result = ArrayList<T>(this.size + elements.size)\n result.addAll(this)\n result.addAll(elements)\n return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then all elements of the given [elements] collection.\n */\npublic operator fun <T> Iterable<T>.plus(elements: Iterable<T>): List<T> {\n if (this is Collection) return this.plus(elements)\n val result = ArrayList<T>()\n result.addAll(this)\n result.addAll(elements)\n return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then all elements of the given [elements] collection.\n */\npublic operator fun <T> Collection<T>.plus(elements: Iterable<T>): List<T> {\n if (elements is Collection) {\n val result = ArrayList<T>(this.size + elements.size)\n result.addAll(this)\n result.addAll(elements)\n return result\n } else {\n val result = ArrayList<T>(this)\n result.addAll(elements)\n return result\n }\n}\n\n/**\n * Returns a list containing all elements of the original collection and then all elements of the given [elements] sequence.\n */\npublic operator fun <T> Iterable<T>.plus(elements: Sequence<T>): List<T> {\n val result = ArrayList<T>()\n result.addAll(this)\n result.addAll(elements)\n return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then all elements of the given [elements] sequence.\n */\npublic operator fun <T> Collection<T>.plus(elements: Sequence<T>): List<T> {\n val result = ArrayList<T>(this.size + 10)\n result.addAll(this)\n result.addAll(elements)\n return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then the given [element].\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.plusElement(element: T): List<T> {\n return plus(element)\n}\n\n/**\n * Returns a list containing all elements of the original collection and then the given [element].\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.plusElement(element: T): List<T> {\n return plus(element)\n}\n\n/**\n * Returns a list of

snapshots of the window of the given [size]\n * sliding along this collection with the given [step], where each\n * snapshot is a list.\n * \n * Several last lists may have less elements than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this collection.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.takeWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun <T> Iterable<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<List<T>> {\n checkWindowSizeStep(size, step)\n if (this is RandomAccess && this is List) {\n val thisSize = this.size\n val result = ArrayList<List<T>>((thisSize + step - 1) / step)\n var index = 0\n while (index < thisSize) {\n val windowSize = size.coerceAtMost(thisSize - index)\n if (windowSize < size && !partialWindows) break\n result.add(List(windowSize) { this[it + index] })\n index += step\n }\n return result\n }\n val result = ArrayList<List<T>>()\n windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = false).forEach {\n result.add(it)\n }\n return result\n}\n\n/**\n * Returns a list of results of applying the given [transform] function to\n * an each list representing a view over the window of the given [size]\n * sliding along this collection with the given [step].\n * \n * Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * Several last lists may have less elements than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this collection.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.averageWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun <T, R> Iterable<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (List<T>) -> R): List<R> {\n checkWindowSizeStep(size, step)\n if (this is RandomAccess && this is List) {\n val thisSize = this.size\n val result = ArrayList<R>((thisSize + step - 1) / step)\n val window = MovingSubList(this)\n var index = 0\n while (index < thisSize) {\n window.move(index, (index + size).coerceAtMost(thisSize))\n if (!partialWindows && window.size < size) break\n result.add(transform(window))\n index += step\n }\n return result\n }\n val result = ArrayList<R>()\n windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = true).forEach {\n result.add(transform(it))\n }\n return result\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <T, R> Iterable<T>.zip(other: Array<out R>): List<Pair<T, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` collection and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <T, R, V> Iterable<T>.zip(other: Array<out R>, transform: (a: T, b: R) -> V): List<V> {\n val arraySize = other.size\n val list = ArrayList<V>(minOf(collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in this) {\n if (i >= arraySize) break\n list.add(transform(element, other[i++]))\n }\n return list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] collection with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <T, R> Iterable<T>.zip(other: Iterable<R>): List<Pair<T, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` collection and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <T, R, V> Iterable<T>.zip(other: Iterable<R>, transform: (a: T, b: R) -> V): List<V> {\n val first = iterator()\n val second

= other.iterator()\n   val list = ArrayList<V>(minOf(collectionSizeOrDefault(10), other.collectionSizeOrDefault(10)))\n   while (first.hasNext() && second.hasNext()) {\n list.add(transform(first.next(), second.next()))\n   }\n   return list\n}\n\n/**\n * Returns a list of pairs of each two adjacent elements in this collection.\n * \n * The returned list is empty if this collection contains less than two elements.\n * \n * @sample samples.collections.Collections.Transformations.zipWithNext\n */\n@SinceKotlin(\"1.2\")\npublic fun <T> Iterable<T>.zipWithNext(): List<Pair<T, T>> {\n   return zipWithNext { a, b -> a to b }\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to an each pair of two adjacent elements in this collection.\n * \n * The returned list is empty if this collection contains less than two elements.\n * \n * @sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas\n */\n@SinceKotlin(\"1.2\")\npublic inline fun <T, R> Iterable<T>.zipWithNext(transform: (a: T, b: T) -> R): List<R> {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return emptyList()\n   val result = mutableListOf<R>()\n   var current = iterator.next()\n   while (iterator.hasNext()) {\n   val next = iterator.next()\n   result.add(transform(current, next))\n   current = next\n   }\n   return result\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <T, A : Appendable> Iterable<T>.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((T) -> CharSequence)? = null): A {\n   buffer.append(prefix)\n   var count = 0\n   for (element in this) {\n   if (++count > 1) buffer.append(separator)\n   if (limit < 0 || count <= limit) {\n   buffer.appendElement(element, transform)\n   } else break\n   }\n   if (limit >= 0 && count > limit) buffer.append(truncated)\n   buffer.append(postfix)\n   return buffer\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun <T> Iterable<T>.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((T) -> CharSequence)? = null): String {\n   return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Returns this collection as an [Iterable].\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.asIterable(): Iterable<T> {\n   return this\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original collection returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromCollection\n */\npublic fun <T> Iterable<T>.asSequence(): Sequence<T> {\n   return Sequence { this.iterator() }\n}\n\n/**\n * Returns an average value of elements in the collection.\n */\n@kotlin.jvm.JvmName(\"averageOfByte\")\npublic fun Iterable<Byte>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   checkCountOverflow(++count)\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the collection.\n */\n@kotlin.jvm.JvmName(\"averageOfShort\")\npublic fun Iterable<Short>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   checkCountOverflow(++count)\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the collection.\n */\n@kotlin.jvm.JvmName(\"averageOfInt\")\npublic fun Iterable<Int>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   checkCountOverflow(++count)\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the collection.\n */\n@kotlin.jvm.JvmName(\"averageOfLong\")\npublic fun Iterable<Long>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   checkCountOverflow(++count)\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns

an average value of elements in the collection.\n */\n@kotlin.jvm.JvmName(\"averageOfFloat\")\npublic fun Iterable<Float>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the collection.\n */\n@kotlin.jvm.JvmName(\"averageOfDouble\")\npublic fun Iterable<Double>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfByte\")\npublic fun Iterable<Byte>.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfShort\")\npublic fun Iterable<Short>.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfInt\")\npublic fun Iterable<Int>.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfLong\")\npublic fun Iterable<Long>.sum(): Long {\n var sum: Long = 0L\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfFloat\")\npublic fun Iterable<Float>.sum(): Float {\n var sum: Float = 0.0f\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfDouble\")\npublic fun Iterable<Double>.sum(): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.collections\r\n\r\nimport kotlin.comparisons.naturalOrder\r\nimport kotlin.random.Random\r\n\r\n/** Returns the array if it's not `null`, or an empty array otherwise. */\r\n@kotlin.internal.InlineOnly\r\npublic actual inline fun <T> Array<out T>?.orEmpty(): Array<out T> = this ?: emptyArray<T>()\r\n\r\n@kotlin.internal.InlineOnly\r\npublic actual inline fun <T> Collection<T>.toTypedArray(): Array<T> = copyToArray(this)\r\n\r\n@JsName(\"copyToArray\")\r\n@PublishedApi\r\ninternal fun <T> copyToArray(collection: Collection<T>): Array<T> {\r\n return if (collection.asDynamic().toArray !== undefined)\r\n collection.asDynamic().toArray().unsafeCast<Array<T>>()\r\n else\r\n copyToArrayImpl(collection).unsafeCast<Array<T>>()\r\n}\r\n\r\n@JsName(\"copyToArrayImpl\")\r\ninternal actual fun copyToArrayImpl(collection: Collection<*>): Array<Any?> {\r\n val array = emptyArray<Any?>()\r\n val iterator = collection.iterator()\r\n while (iterator.hasNext())\r\n array.asDynamic().push(iterator.next())\r\n return array\r\n}\r\n\r\n@JsName(\"copyToExistingArrayImpl\")\r\ninternal actual fun <T> copyToArrayImpl(collection: Collection<*>, array: Array<T>): Array<T> {\r\n if (array.size < collection.size)\r\n return copyToArrayImpl(collection).unsafeCast<Array<T>>()\r\n\r\n val iterator = collection.iterator()\r\n var index = 0\r\n while (iterator.hasNext()) {\r\n array[index++] = iterator.next().unsafeCast<T>()\r\n }\r\n if (index < array.size) {\r\n array[index] = null.unsafeCast<T>()\r\n }\r\n return array\r\n}\r\n\r\n/**\r\n * Returns an immutable list containing only the specified object [element].\r\n */\r\npublic fun <T> listOf(element: T): List<T> = arrayListOf(element)\r\n\r\n/**\r\n * Returns an immutable set containing only the specified object [element].\r\n */\r\npublic fun <T> setOf(element: T): Set<T> = hashSetOf(element)\r\n\r\n/**\r\n * Returns an immutable map, mapping only the specified key to the\r\n * specified value.\r\n */\r\npublic fun <K, V> mapOf(pair: Pair<K, V>): Map<K, V> = hashMapOf(pair)\r\n\r\n/**\r\n * Fills the list with the provided [value].\r\n *\r\n * Each element in the list gets replaced with the [value].\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual fun <T> MutableList<T>.fill(value: T): Unit {\r\n for (index in 0..lastIndex) {\r\n this[index] = value\r\n }\r\n}\r\n\r\n/**\r\n * Randomly shuffles elements in this list.\r\n *\r\n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual fun <T> MutableList<T>.shuffle(): Unit =

shuffle(Random)\r\n\r\n/**\r\n * Returns a new list with the elements of this list randomly shuffled.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual fun <T> Iterable<T>.shuffled(): List<T> = toMutableList().apply { shuffle() }\r\n\r\n/**\r\n * Sorts elements in the list in-place according to their natural sort order.\r\n *\r\n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\r\n */\r\npublic actual fun <T : Comparable<T>> MutableList<T>.sort(): Unit {\r\n   collectionsSort(this, naturalOrder())\r\n}\r\n\r\n/**\r\n * Sorts elements in the list in-place according to the order specified with [comparator].\r\n *\r\n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\r\n */\r\npublic actual fun <T> MutableList<T>.sortWith(comparator: Comparator<in T>): Unit {\r\n   collectionsSort(this, comparator)\r\n}\r\n\r\nprivate fun <T> collectionsSort(list: MutableList<T>, comparator: Comparator<in T>) {\r\n   if (list.size <= 1) return\r\n\r\n   val array = copyToArray(list)\r\n   sortArrayWith(array, comparator)\r\n\r\n   for (i in 0 until array.size) {\r\n   list[i] = array[i]\r\n   }\r\n}\r\n\r\ninternal actual fun <T> arrayOfNulls(reference: Array<T>, size: Int): Array<T> {\r\n   return arrayOfNulls<Any>(size).unsafeCast<Array<T>>()\r\n}\r\n\r\n@SinceKotlin(\"1.3\")\r\n@PublishedApi\r\n@JsName(\"arrayCopy\")\r\ninternal fun <T> arrayCopy(source: Array<out T>, destination: Array<in T>, destinationOffset: Int, startIndex: Int, endIndex: Int) {\r\n   AbstractList.checkRangeIndexes(startIndex, endIndex, source.size)\r\n   val rangeSize = endIndex - startIndex\r\n   AbstractList.checkRangeIndexes(destinationOffset, destinationOffset + rangeSize, destination.size)\r\n\r\n   if (js(\"ArrayBuffer\").isView(destination) && js(\"ArrayBuffer\").isView(source)) {\r\n   val subrange = source.asDynamic().subarray(startIndex, endIndex)\r\n   destination.asDynamic().set(subrange, destinationOffset)\r\n   } else {\r\n   if (source !== destination || destinationOffset <= startIndex) {\r\n   for (index in 0 until rangeSize) {\r\n   destination[destinationOffset + index] = source[startIndex + index]\r\n   }\r\n   } else {\r\n   for (index in rangeSize - 1 downTo 0) {\r\n   destination[destinationOffset + index] = source[startIndex + index]\r\n   }\r\n   }\r\n   }\r\n}\r\n\r\n// no singleton map implementation in js, return map as is\r\n@Suppress(\"NOTHING_TO_INLINE\")\r\ninternal actual inline fun <K, V> Map<K, V>.toSingletonMapOrSelf(): Map<K, V> = this\r\n\r\n@Suppress(\"NOTHING_TO_INLINE\")\r\ninternal actual inline fun <K, V> Map<out K, V>.toSingletonMap(): Map<K, V> = this.toMutableMap()\r\n\r\n\r\n@Suppress(\"NOTHING_TO_INLINE\")\r\ninternal actual inline fun <T> Array<out T>.copyToArrayOfAny(isVarargs: Boolean): Array<out Any?> =\r\n   if (isVarargs)\r\n   // no need to copy vararg array in JS\r\n   this\r\n   else\r\n   this.copyOf()\r\n\r\n\r\n\r\n\r\n@PublishedApi\r\ninternal actual fun checkIndexOverflow(index: Int): Int {\r\n   if (index < 0) {\r\n   throwIndexOverflow()\r\n   }\r\n   return index\r\n}\r\n\r\n@PublishedApi\r\ninternal actual fun checkCountOverflow(count: Int): Int {\r\n   if (count < 0) {\r\n   throwCountOverflow()\r\n   }\r\n   return count\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"CollectionsKt\")\r\n\r\npackage kotlin.collections\r\n\r\n\r\n\r\n/**\r\n * Returns the given iterator itself. This allows to use an instance of iterator in a `for` loop.\r\n * @sample samples.collections.Iterators.iterator\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <T> Iterator<T>.iterator(): Iterator<T> = this\r\n\r\n/**\r\n * Returns an [Iterator] that wraps each element produced by the original iterator\r\n * into an [IndexedValue] containing the index of that element and the element itself.\r\n *\r\n * @sample samples.collections.Iterators.withIndexIterator\r\n */\r\npublic fun <T> Iterator<T>.withIndex(): Iterator<IndexedValue<T>> = IndexingIterator(this)\r\n\r\n/**\r\n * Performs the given [operation] on each element of this [Iterator].\r\n * @sample samples.collections.Iterators.forEachIterator\r\n */\r\npublic inline fun <T> Iterator<T>.forEach(operation: (T) -> Unit): Unit {\r\n   for (element in this) operation(element)\r\n}\r\n\r\n/**\r\n * Iterator transforming original `iterator` into iterator of [IndexedValue], counting index from zero.\r\n */\r\ninternal class IndexingIterator<out T>(private val iterator: Iterator<T>) : Iterator<IndexedValue<T>> {\r\n   private var index = 0\r\n   final override fun hasNext(): Boolean = iterator.hasNext()\r\n   final override fun next(): IndexedValue<T> = IndexedValue(checkIndexOverflow(index++), iterator.next())\r\n}\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language

contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"ComparisonsKt\")\n\npackage kotlin.comparisons\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.\n\n/**\n * Returns the greater of two values.\n * If values are equal, returns the first one.\n */\n@SinceKotlin(\"1.1\")\npublic expect fun <T : Comparable<T>> maxOf(a: T, b: T): T\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Byte, b: Byte): Byte\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Short, b: Short): Short\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Int, b: Int): Int\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Long, b: Long): Long\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Float, b: Float): Float\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Double, b: Double): Double\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\npublic expect fun <T : Comparable<T>> maxOf(a: T, b: T, c: T): T\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Byte, b: Byte, c: Byte): Byte\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Short, b: Short, c: Short): Short\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Int, b: Int, c: Int): Int\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Long, b: Long, c: Long): Long\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Float, b: Float, c: Float): Float\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Double, b: Double, c: Double): Double\n\n/**\n * Returns the greater of three values according to the order specified by the given [comparator].\n */\n@SinceKotlin(\"1.1\")\npublic fun <T> maxOf(a: T, b: T, c: T, comparator: Comparator<in T>): T {\n   return maxOf(a, maxOf(b, c, comparator), comparator)\n}\n\n/**\n * Returns the greater of two values according to the order specified by the given [comparator].\n * If values are equal, returns the first one.\n */\n@SinceKotlin(\"1.1\")\npublic fun <T> maxOf(a: T, b: T, comparator: Comparator<in T>): T {\n   return if (comparator.compare(a, b) >= 0) a else b\n}\n\n/**\n * Returns the smaller of two values.\n * If values are equal, returns the first one.\n */\n@SinceKotlin(\"1.1\")\npublic expect fun <T : Comparable<T>> minOf(a: T, b: T): T\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Byte, b: Byte): Byte\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Short, b: Short): Short\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Int, b: Int): Int\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Long, b: Long): Long\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Float, b: Float): Float\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Double, b: Double): Double\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\npublic expect fun <T : Comparable<T>> minOf(a: T, b: T, c: T): T\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Byte, b: Byte, c: Byte):

Byte\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Short, b: Short, c: Short): Short\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Int, b: Int, c: Int): Int\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Long, b: Long, c: Long): Long\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Float, b: Float, c: Float): Float\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Double, b: Double, c: Double): Double\n\n/**\n * Returns the smaller of three values according to the order specified by the given [comparator].\n */\n@SinceKotlin(\"1.1\")\npublic fun <T> minOf(a: T, b: T, c: T, comparator: Comparator<in T>): T {\n   return minOf(a, minOf(b, c, comparator), comparator)\n}\n\n/**\n * Returns the smaller of two values according to the order specified by the given [comparator].\n * If values are equal, returns the first one.\n */\n@SinceKotlin(\"1.1\")\npublic fun <T> minOf(a: T, b: T, comparator: Comparator<in T>): T {\n   return if (comparator.compare(a, b) <= 0) a else b\n}\n\n\","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"MapsKt\")\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns a [List] containing all key-value pairs.\n */\npublic fun <K, V> Map<out K, V>.toList(): List<Pair<K, V>> {\n   if (size == 0)\n   return emptyList()\n   val iterator = entries.iterator()\n   if (!iterator.hasNext())\n   return emptyList()\n   val first = iterator.next()\n   if (!iterator.hasNext())\n   return listOf(first.toPair())\n   val result = ArrayList<Pair<K, V>>(size)\n   result.add(first.toPair())\n   do {\n   result.add(iterator.next().toPair())\n   } while (iterator.hasNext())\n   return result\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each entry of original map.\n */\npublic inline fun <K, V, R> Map<out K, V>.flatMap(transform: (Map.Entry<K, V>) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each entry of original map, to the given [destination].\n */\npublic inline fun <K, V, R, C : MutableCollection<in R>> Map<out K, V>.flatMapTo(destination: C, transform: (Map.Entry<K, V>) -> Iterable<R>): C {\n   for (element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each entry in the original map.\n * \n * @sample samples.collections.Maps.Transformations.mapToList\n */\npublic inline fun <K, V, R> Map<out K, V>.map(transform: (Map.Entry<K, V>) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each entry in the original map.\n */\npublic inline fun <K, V, R : Any> Map<out K, V>.mapNotNull(transform: (Map.Entry<K, V>) -> R?): List<R> {\n   return mapNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each entry in the original map\n * and appends only the non-null results to the given [destination].\n */\npublic inline fun <K, V, R : Any, C : MutableCollection<in R>> Map<out K, V>.mapNotNullTo(destination: C, transform: (Map.Entry<K, V>) -> R?): C {\n   forEach { element -> transform(element)?.let { destination.add(it) } }\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each entry of the original map\n * and appends the results to the given [destination].\n */\npublic inline fun <K, V, R, C : MutableCollection<in R>> Map<out K, V>.mapTo(destination: C, transform: (Map.Entry<K, V>) -> R): C {\n   for (item in this)\n   destination.add(transform(item))\n   return destination\n}\n\n/**\n * Returns `true` if all entries match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun <K, V> Map<out K, V>.all(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n   if (isEmpty()) return true\n   for (element in this) if

(!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if map has at least one entry.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun <K, V> Map<out K, V>.any(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if at least one entry matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun <K, V> Map<out K, V>.any(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n   if (isEmpty()) return false\n   for (element in this) if (predicate(element)) return true\n   return false\n}\n\n/**\n * Returns the number of entries in this map.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.count(): Int {\n   return size\n}\n\n/**\n * Returns the number of entries matching the given [predicate].\n */\npublic inline fun <K, V> Map<out K, V>.count(predicate: (Map.Entry<K, V>) -> Boolean): Int {\n   if (isEmpty()) return 0\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Performs the given [action] on each entry.\n */\n@kotlin.internal.HidesMembers\npublic inline fun <K, V> Map<out K, V>.forEach(action: (Map.Entry<K, V>) -> Unit): Unit {\n   for (element in this) action(element)\n}\n\n/**\n * Returns the first entry yielding the largest value of the given function or `null` if there are no entries.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K, V>.maxBy(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n   return entries.maxBy(selector)\n}\n\n/**\n * Returns the first entry having the largest value according to the provided [comparator] or `null` if there are no entries.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.maxWith(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {\n   return entries.maxWith(comparator)\n}\n\n/**\n * Returns the first entry yielding the smallest value of the given function or `null` if there are no entries.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <K, V, R : Comparable<R>> Map<out K, V>.minBy(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n   return entries.minBy(selector)\n}\n\n/**\n * Returns the first entry having the smallest value according to the provided [comparator] or `null` if there are no entries.\n */\npublic fun <K, V> Map<out K, V>.minWith(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {\n   return entries.minWith(comparator)\n}\n\n/**\n * Returns `true` if the map has no entries.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun <K, V> Map<out K, V>.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if no entries match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun <K, V> Map<out K, V>.none(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n   if (isEmpty()) return true\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Performs the given [action] on each entry and returns the map itself afterwards.\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <K, V, M : Map<out K, V>> M.onEach(action: (Map.Entry<K, V>) -> Unit): M {\n   return apply { for (element in this) action(element) }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original map returning its entries when being iterated.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.asIterable(): Iterable<Map.Entry<K, V>> {\n   return entries\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original map returning its entries when being iterated.\n */\npublic fun <K, V> Map<out K, V>.asSequence(): Sequence<Map.Entry<K, V>> {\n   return entries.asSequence()\n}\n\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.ranges\r\n\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun Float.rangeTo(that: Float): ClosedFloatingPointRange<Float> =\r\n   this.toDouble().rangeTo(that.toDouble()).unsafeCast<ClosedFloatingPointRange<Float>>()\r\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"SequencesKt\")\n\npackage kotlin.sequences\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\n\n/**\n * Returns `true` if [element] is found in the sequence.\n *\n * The operation is _terminal_.\n */\npublic operator fun

<@kotlin.internal.OnlyInputTypes T> Sequence<T>.contains(element: T): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this sequence.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic fun <T> Sequence<T>.elementAt(index: Int): T {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"Sequence doesn't contain element at index $index.\") }\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this sequence.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\npublic fun <T> Sequence<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n if (index < 0)\n return defaultValue(index)\n val iterator = iterator()\n var count = 0\n while (iterator.hasNext()) {\n val element = iterator.next()\n if (index == count++)\n return element\n }\n return defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this sequence.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\npublic fun <T> Sequence<T>.elementAtOrNull(index: Int): T? {\n if (index < 0)\n return null\n val iterator = iterator()\n var count = 0\n while (iterator.hasNext()) {\n val element = iterator.next()\n if (index == count++)\n return element\n }\n return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n *\n * The operation is _terminal_.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.find(predicate: (T) -> Boolean): T? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n *\n * The operation is _terminal_.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.findLast(predicate: (T) -> Boolean): T? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the sequence is empty.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.first(): T {\n val iterator = iterator()\n if (!iterator.hasNext())\n throw NoSuchElementException(\"Sequence is empty.\")\n return iterator.next()\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.first(predicate: (T) -> Boolean): T {\n for (element in this) if (predicate(element)) return element\n throw NoSuchElementException(\"Sequence contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element, or `null` if the sequence is empty.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.firstOrNull(): T? {\n val iterator = iterator()\n if (!iterator.hasNext())\n return null\n return iterator.next()\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.firstOrNull(predicate: (T) -> Boolean): T? {\n for (element in this) if (predicate(element)) return element\n return null\n}\n\n/**\n * Returns first index of [element], or -1 if the sequence does not contain element.\n *\n * The operation is _terminal_.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Sequence<T>.indexOf(element: T): Int {\n var index = 0\n for (item in this) {\n checkIndexOverflow(index)\n if (element == item)\n return index\n index++\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the sequence does not contain such element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n var index = 0\n for (item in this) {\n checkIndexOverflow(index)\n if (predicate(item))\n return index\n index++\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the sequence does not contain such element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n var lastIndex = -1\n var index = 0\n for (item in this) {\n checkIndexOverflow(index)\n if (predicate(item))\n lastIndex = index\n index++\n }\n return lastIndex\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the sequence is empty.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.last(): T {\n val iterator = iterator()\n if (!iterator.hasNext())\n throw NoSuchElementException(\"Sequence is empty.\")\n

var last = iterator.next()\n   while (iterator.hasNext())\n   last = iterator.next()\n   return last\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.last(predicate: (T) -> Boolean): T {\n   var last: T? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   last = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Sequence contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return last as T\n}\n\n/**\n * Returns last index of [element], or -1 if the sequence does not contain element.\n *\n * The operation is _terminal_.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Sequence<T>.lastIndexOf(element: T): Int {\n   var lastIndex = -1\n   var index = 0\n   for (item in this) {\n   checkIndexOverflow(index)\n   if (element == item)\n   lastIndex = index\n   index++\n   }\n   return lastIndex\n}\n\n/**\n * Returns the last element, or `null` if the sequence is empty.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.lastOrNull(): T? {\n   val iterator = iterator()\n   if (!iterator.hasNext())\n   return null\n   var last = iterator.next()\n   while (iterator.hasNext())\n   last = iterator.next()\n   return last\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.lastOrNull(predicate: (T) -> Boolean): T? {\n   var last: T? = null\n   for (element in this) {\n   if (predicate(element)) {\n   last = element\n   }\n   }\n   return last\n}\n\n/**\n * Returns the single element, or throws an exception if the sequence is empty or has more than one element.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.single(): T {\n   val iterator = iterator()\n   if (!iterator.hasNext())\n   throw NoSuchElementException(\"Sequence is empty.\")\n   val single = iterator.next()\n   if (iterator.hasNext())\n   throw IllegalArgumentException(\"Sequence has more than one element.\")\n   return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.single(predicate: (T) -> Boolean): T {\n   var single: T? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Sequence contains more than one matching element.\")\n   single = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Sequence contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as T\n}\n\n/**\n * Returns single element, or `null` if the sequence is empty or has more than one element.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.singleOrNull(): T? {\n   val iterator = iterator()\n   if (!iterator.hasNext())\n   return null\n   val single = iterator.next()\n   if (iterator.hasNext())\n   return null\n   return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.singleOrNull(predicate: (T) -> Boolean): T? {\n   var single: T? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) return null\n   single = element\n   found = true\n   }\n   }\n   if (!found) return null\n   return single\n}\n\n/**\n * Returns a sequence containing all elements except first [n] elements.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Sequence<T>.drop(n: Int): Sequence<T> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return when {\n   n == 0 -> this\n   this is DropTakeSequence -> this.drop(n)\n   else -> DropSequence(this, n)\n   }\n}\n\n/**\n * Returns a sequence containing all elements except first elements that satisfy the given [predicate].\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Sequence<T>.dropWhile(predicate: (T) -> Boolean): Sequence<T> {\n   return DropWhileSequence(this, predicate)\n}\n\n/**\n * Returns a sequence containing only elements matching the given [predicate].\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T> Sequence<T>.filter(predicate: (T) -> Boolean): Sequence<T> {\n   return FilteringSequence(this, true, predicate)\n}\n\n/**\n * Returns a sequence containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and

returns the result of predicate evaluation on the element.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T> Sequence<T>.filterIndexed(predicate: (index: Int, T) -> Boolean): Sequence<T> {\n // TODO: Rewrite with generalized MapFilterIndexingSequence\n return TransformingSequence(FilteringSequence(IndexingSequence(this), true, { predicate(it.index, it.value) }), { it.value })\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, C : MutableCollection<in T>> Sequence<T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return destination\n}\n\n/**\n * Returns a sequence containing all elements that are instances of specified type parameter R.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic inline fun <reified R> Sequence<*>.filterIsInstance(): Sequence<@kotlin.internal.NoInfer R> {\n @Suppress(\"UNCHECKED_CAST\")\n return filter { it is R } as Sequence<R>\n}\n\n/**\n * Appends all elements that are instances of specified type parameter R to the given [destination].\n *\n * The operation is _terminal_.\n */\npublic inline fun <reified R, C : MutableCollection<in R>> Sequence<*>.filterIsInstanceTo(destination: C): C {\n for (element in this) if (element is R) destination.add(element)\n return destination\n}\n\n/**\n * Returns a sequence containing all elements not matching the given [predicate].\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T> Sequence<T>.filterNot(predicate: (T) -> Boolean): Sequence<T> {\n return FilteringSequence(this, false, predicate)\n}\n\n/**\n * Returns a sequence containing all elements that are not `null`.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T : Any> Sequence<T?>.filterNotNull(): Sequence<T> {\n @Suppress(\"UNCHECKED_CAST\")\n return filterNot { it == null } as Sequence<T>\n}\n\n/**\n * Appends all elements that are not `null` to the given [destination].\n *\n * The operation is _terminal_.\n */\npublic fun <C : MutableCollection<in T>, T : Any> Sequence<T?>.filterNotNullTo(destination: C): C {\n for (element in this) if (element != null) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, C : MutableCollection<in T>> Sequence<T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, C : MutableCollection<in T>> Sequence<T>.filterTo(destination: C, predicate: (T) -> Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Returns a sequence containing first [n] elements.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun <T> Sequence<T>.take(n: Int): Sequence<T> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return when {\n n == 0 -> emptySequence()\n this is DropTakeSequence -> this.take(n)\n else -> TakeSequence(this, n)\n }\n}\n\n/**\n * Returns a sequence containing first elements satisfying the given [predicate].\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun <T> Sequence<T>.takeWhile(predicate: (T) -> Boolean): Sequence<T> {\n return TakeWhileSequence(this, predicate)\n}\n\n/**\n * Returns a sequence that yields elements of this sequence sorted according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic fun <T : Comparable<T>> Sequence<T>.sorted(): Sequence<T> {\n return object : Sequence<T> {\n override fun iterator(): Iterator<T> {\n val sortedList = this@sorted.toMutableList()\n sortedList.sort()\n return sortedList.iterator()\n }\n }\n}\n\n/**\n * Returns a sequence that yields elements of this sequence sorted according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic inline fun <T, R : Comparable<R>>

Sequence<T>.sortedBy(crossinline selector: (T) -> R?): Sequence<T> {\n return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a sequence that yields elements of this sequence sorted descending according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic inline fun <T, R : Comparable<R>> Sequence<T>.sortedByDescending(crossinline selector: (T) -> R?): Sequence<T> {\n return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a sequence that yields elements of this sequence sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic fun <T : Comparable<T>> Sequence<T>.sortedDescending(): Sequence<T> {\n return sortedWith(reverseOrder())\n}\n\n/**\n * Returns a sequence that yields elements of this sequence sorted according to the specified [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic fun <T> Sequence<T>.sortedWith(comparator: Comparator<in T>): Sequence<T> {\n return object : Sequence<T> {\n override fun iterator(): Iterator<T> {\n val sortedList = this@sortedWith.toMutableList()\n sortedList.sortWith(comparator)\n return sortedList.iterator()\n }\n }\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given sequence.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original sequence.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, K, V> Sequence<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {\n return associateTo(LinkedHashMap<K, V>(), transform)\n}\n\n/**\n * Returns a [Map] containing the elements from the given sequence indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original sequence.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, K> Sequence<T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n return associateByTo(LinkedHashMap<K, T>(), keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given sequence.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original sequence.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, K, V> Sequence<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n return associateByTo(LinkedHashMap<K, V>(), keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given sequence\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, K, M : MutableMap<in K, in T>> Sequence<T>.associateByTo(destination: M, keySelector: (T) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given sequence.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Sequence<T>.associateByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given sequence.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Sequence<T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Returns a

[Map] where keys are elements from the given sequence and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original sequence.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n */\n@SinceKotlin(\"1.3\")\npublic inline fun <K, V> Sequence<K>.associateWith(valueSelector: (K) -> V): Map<K, V> {\n   val result = LinkedHashMap<K, V>()\n   return associateWithTo(result, valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given sequence,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.3\")\npublic inline fun <K, V, M : MutableMap<in K, in V>> Sequence<K>.associateWithTo(destination: M, valueSelector: (K) -> V): M {\n   for (element in this) {\n   destination.put(element, valueSelector(element))\n   }\n   return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n *\n * The operation is _terminal_.\n */\npublic fun <T, C : MutableCollection<in T>> Sequence<T>.toCollection(destination: C): C {\n   for (item in this) {\n   destination.add(item)\n   }\n   return destination\n}\n\n/**\n * Returns a [HashSet] of all elements.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.toHashSet(): HashSet<T> {\n   return toCollection(HashSet<T>())\n}\n\n/**\n * Returns a [List] containing all elements.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.toList(): List<T> {\n   return this.toMutableList().optimizeReadOnlyList()\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this sequence.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.toMutableList(): MutableList<T> {\n   return toCollection(ArrayList<T>())\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original sequence.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.toSet(): Set<T> {\n   return toCollection(LinkedHashSet<T>()).optimizeReadOnlySet()\n}\n\n/**\n * Returns a single sequence of all elements from results of [transform] function being invoked on each element of original sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T, R> Sequence<T>.flatMap(transform: (T) -> Sequence<R>): Sequence<R> {\n   return FlatteningSequence(this, transform, { it.iterator() })\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original sequence, to the given [destination].\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.flatMapTo(destination: C, transform: (T) -> Sequence<R>): C {\n   for (element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Groups elements of the original sequence by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original sequence.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K> Sequence<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {\n   return groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original sequence\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original sequence.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V> Sequence<T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements of the original sequence by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K, M : MutableMap<in K,

MutableList<T>>> Sequence<T>.groupByTo(destination: M, keySelector: (T) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<T>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original sequence\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> Sequence<T>.groupByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Creates a [Grouping] source from a sequence to be used later with one of group-and-fold operations\n * using the specified [keySelector] function to extract a key from each element.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K> Sequence<T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {\n return object : Grouping<T, K> {\n override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()\n override fun keyOf(element: T): K = keySelector(element)\n }\n}\n\n/**\n * Returns a sequence containing the results of applying the given [transform] function\n * to each element in the original sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic fun <T, R> Sequence<T>.map(transform: (T) -> R): Sequence<R> {\n return TransformingSequence(this, transform)\n}\n\n/**\n * Returns a sequence containing the results of applying the given [transform] function\n * to each element and its index in the original sequence.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T, R> Sequence<T>.mapIndexed(transform: (index: Int, T) -> R): Sequence<R> {\n return TransformingIndexedSequence(this, transform)\n}\n\n/**\n * Returns a sequence containing only the non-null results of applying the given [transform] function\n * to each element and its index in the original sequence.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T, R : Any> Sequence<T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): Sequence<R> {\n return TransformingIndexedSequence(this, transform).filterNotNull()\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original sequence\n * and appends only the non-null results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Sequence<T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {\n forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original sequence\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(checkIndexOverflow(index++), item))\n return destination\n}\n\n/**\n * Returns a sequence containing only the non-null results of applying the given [transform] function\n * to each element in the original sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T, R : Any> Sequence<T>.mapNotNull(transform: (T) -> R?): Sequence<R> {\n return TransformingSequence(this, transform).filterNotNull()\n}\n\n/**\n * Applies the given [transform] function to each element in the original sequence\n * and appends only the non-null results to the given [destination].\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Sequence<T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {\n forEach { element -> transform(element)?.let { destination.add(it) } }\n return

destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original sequence\n * and appends the results to the given [destination].\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.mapTo(destination: C, transform: (T) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Returns a sequence that wraps each element of the original sequence\n * into an [IndexedValue] containing the index of that element and the element itself.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T> Sequence<T>.withIndex(): Sequence<IndexedValue<T>> {\n return IndexingSequence(this)\n}\n\n/**\n * Returns a sequence containing only distinct elements from the given sequence.\n * \n * The elements in the resulting sequence are in the same order as they were in the source sequence.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic fun <T> Sequence<T>.distinct(): Sequence<T> {\n return this.distinctBy { it }\n}\n\n/**\n * Returns a sequence containing only elements from the given sequence\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting sequence are in the same order as they were in the source sequence.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic fun <T, K> Sequence<T>.distinctBy(selector: (T) -> K): Sequence<T> {\n return DistinctSequence(this, selector)\n}\n\n/**\n * Returns a mutable set containing all distinct elements from the given sequence.\n * \n * The returned set preserves the element iteration order of the original sequence.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.toMutableSet(): MutableSet<T> {\n val set = LinkedHashSet<T>()\n for (item in this) set.add(item)\n return set\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun <T> Sequence<T>.all(predicate: (T) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if sequence has at least one element.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun <T> Sequence<T>.any(): Boolean {\n return iterator().hasNext()\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun <T> Sequence<T>.any(predicate: (T) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns the number of elements in this sequence.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.count(): Int {\n var count = 0\n for (element in this) checkCountOverflow(++count)\n return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.count(predicate: (T) -> Boolean): Int {\n var count = 0\n for (element in this) if (predicate(element)) checkCountOverflow(++count)\n return count\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R> Sequence<T>.fold(initial: R, operation: (acc: R, T) -> R): R {\n var accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original sequence.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R> Sequence<T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(checkIndexOverflow(index++), accumulator, element)\n return accumulator\n}\n\n/**\n * Performs the given [action] on each element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.forEach(action: (T) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {\n var index = 0\n for (item in this) action(checkIndexOverflow(index++), item)\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n *\n * The

operation is _terminal_.\n */\n@SinceKotlin(\"1.1\")\npublic fun Sequence<Double>.max(): Double? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var max = iterator.next()\n if (max.isNaN()) return max\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (e.isNaN()) return e\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.1\")\npublic fun Sequence<Float>.max(): Float? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var max = iterator.next()\n if (max.isNaN()) return max\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (e.isNaN()) return e\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n *\n * The operation is _terminal_.\n */\npublic fun <T : Comparable<T>> Sequence<T>.max(): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var max = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <T, R : Comparable<R>> Sequence<T>.maxBy(selector: (T) -> R): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var maxElem = iterator.next()\n if (!iterator.hasNext()) return maxElem\n var maxValue = selector(maxElem)\n do {\n val e = iterator.next()\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n } while (iterator.hasNext())\n return maxElem\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.maxWith(comparator: Comparator<in T>): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var max = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.1\")\npublic fun Sequence<Double>.min(): Double? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var min = iterator.next()\n if (min.isNaN()) return min\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (e.isNaN()) return e\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.1\")\npublic fun Sequence<Float>.min(): Float? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var min = iterator.next()\n if (min.isNaN()) return min\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (e.isNaN()) return e\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n *\n * The operation is _terminal_.\n */\npublic fun <T : Comparable<T>> Sequence<T>.min(): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var min = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <T, R : Comparable<R>> Sequence<T>.minBy(selector: (T) -> R): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var minElem = iterator.next()\n if (!iterator.hasNext()) return minElem\n var minValue = selector(minElem)\n do {\n val e = iterator.next()\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n } while (iterator.hasNext())\n return minElem\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.minWith(comparator: Comparator<in T>): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var min = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns `true` if the sequence has no elements.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun <T> Sequence<T>.none(): Boolean {\n return !iterator().hasNext()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n *\n * The operation is

terminal.\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun <T> Sequence<T>.none(predicate: (T) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Returns a sequence which performs the given [action] on each element of the original sequence as they pass through it.\n *\n * The operation is _intermediate_ and _stateless_.\n */\n@SinceKotlin(\"1.1\")\npublic fun <T> Sequence<T>.onEach(action: (T) -> Unit): Sequence<T> {\n return map {\n action(it)\n it\n }\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <S, T : S> Sequence<T>.reduce(operation: (acc: S, T) -> S): S {\n val iterator = this.iterator()\n if (!iterator.hasNext()) throw UnsupportedOperationException(\"Empty sequence can't be reduced.\")\n var accumulator: S = iterator.next()\n while (iterator.hasNext()) {\n accumulator = operation(accumulator, iterator.next())\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original sequence.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n *\n * The operation is _terminal_.\n */\npublic inline fun <S, T : S> Sequence<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n val iterator = this.iterator()\n if (!iterator.hasNext()) throw UnsupportedOperationException(\"Empty sequence can't be reduced.\")\n var index = 1\n var accumulator: S = iterator.next()\n while (iterator.hasNext()) {\n accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n }\n return accumulator\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the sequence.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.sumBy(selector: (T) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the sequence.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.sumByDouble(selector: (T) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns an original collection containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T : Any> Sequence<T?>.requireNoNulls(): Sequence<T> {\n return map { it ?: throw IllegalArgumentException(\"null element found in $this.\") }\n}\n\n/**\n * Splits this sequence into a sequence of lists each not exceeding the given [size].\n * \n * The last list in the resulting sequence may have less elements than the given [size].\n * \n * @param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this sequence.\n *\n * The operation is _intermediate_ and _stateful_.\n * \n * @sample samples.collections.Collections.Transformations.chunked\n */\n@SinceKotlin(\"1.2\")\npublic fun <T> Sequence<T>.chunked(size: Int): Sequence<List<T>> {\n return windowed(size, size, partialWindows = true)\n}\n\n/**\n * Splits this sequence into several lists each not exceeding the given [size]\n * and applies the given [transform] function to an each.\n * \n * @return sequence of results of the [transform] applied to an each list.\n * \n * Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * The last list may have less elements than the given [size].\n * \n * @param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this sequence.\n *\n * The operation is _intermediate_ and _stateful_.\n * \n * @sample samples.text.Strings.chunkedTransform\n */\n@SinceKotlin(\"1.2\")\npublic fun <T, R> Sequence<T>.chunked(size: Int, transform: (List<T>) -> R): Sequence<R> {\n return windowed(size, size, partialWindows = true, transform = transform)\n}\n\n/**\n * Returns a sequence containing all elements of the original sequence without the first occurrence of the given [element].\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic operator fun <T> Sequence<T>.minus(element: T): Sequence<T> {\n return object: Sequence<T> {\n override fun iterator(): Iterator<T> {\n var removed = false\n return this@minus.filter { if (!removed && it == element) { removed = true; false } else true }.iterator()\n }\n }\n}\n\n/**\n * Returns a sequence containing all elements of original sequence except the elements contained in the given [elements] array.\n * \n * Note that the source

sequence and the array being subtracted are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n * \n * The [elements] array may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n * a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic operator fun <T> Sequence<T>.minus(elements: Array<out T>): Sequence<T> {\n   if (elements.isEmpty()) return this\n   return object: Sequence<T> {\n   override fun iterator(): Iterator<T> {\n   val other = elements.toHashSet()\n   return this@minus.filterNot { it in other }.iterator()\n   }\n   }\n}\n\n/**\n * Returns a sequence containing all elements of original sequence except the elements contained in the given [elements] collection.\n * \n * Note that the source sequence and the collection being subtracted are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n * \n * The [elements] collection may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n * a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic operator fun <T> Sequence<T>.minus(elements: Iterable<T>): Sequence<T> {\n   return object: Sequence<T> {\n   override fun iterator(): Iterator<T> {\n   val other = elements.convertToSetForSetOperation()\n   if (other.isEmpty())\n   return this@minus.iterator()\n   else\n   return this@minus.filterNot { it in other }.iterator()\n   }\n   }\n}\n\n/**\n * Returns a sequence containing all elements of original sequence except the elements contained in the given [elements] sequence.\n * \n * Note that the source sequence and the sequence being subtracted are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n * \n * The operation is _intermediate_ for this sequence and _terminal_ and _stateful_ for the [elements] sequence.\n * \n * The [elements] sequence may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n * a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n */\npublic operator fun <T> Sequence<T>.minus(elements: Sequence<T>): Sequence<T> {\n   return object: Sequence<T> {\n   override fun iterator(): Iterator<T> {\n   val other = elements.toHashSet()\n   if (other.isEmpty())\n   return this@minus.iterator()\n   else\n   return this@minus.filterNot { it in other }.iterator()\n   }\n   }\n}\n\n/**\n * Returns a sequence containing all elements of the original sequence without the first occurrence of the given [element].\n *\n * The operation is _intermediate_ and _stateless_.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.minusElement(element: T): Sequence<T> {\n   return minus(element)\n}\n\n/**\n * Splits the original sequence into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {\n   val first = ArrayList<T>()\n   val second = ArrayList<T>()\n   for (element in this) {\n   if (predicate(element)) {\n   first.add(element)\n   } else {\n   second.add(element)\n   }\n   }\n   return Pair(first, second)\n}\n\n/**\n * Returns a sequence containing all elements of the original sequence and then the given [element].\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic operator fun <T> Sequence<T>.plus(element: T): Sequence<T> {\n   return sequenceOf(this, sequenceOf(element)).flatten()\n}\n\n/**\n * Returns a sequence containing all elements of original sequence and then all elements of the given [elements] array.\n * \n * Note that the source sequence and the array being added are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic operator fun <T> Sequence<T>.plus(elements: Array<out T>): Sequence<T> {\n   return this.plus(elements.asList())\n}\n\n/**\n * Returns a sequence containing all elements of original sequence and then all elements of the given [elements] collection.\n * \n * Note that the source sequence and the collection being added are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic operator fun <T> Sequence<T>.plus(elements: Iterable<T>): Sequence<T> {\n   return sequenceOf(this,

elements.asSequence()).flatten()\n}\n\n/**\n * Returns a sequence containing all elements of original sequence and then all elements of the given [elements] sequence.\n * \n * Note that the source sequence and the sequence being added are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic operator fun <T> Sequence<T>.plus(elements: Sequence<T>): Sequence<T> {\n   return sequenceOf(this, elements).flatten()\n}\n\n/**\n * Returns a sequence containing all elements of the original sequence and then the given [element].\n *\n * The operation is _intermediate_ and _stateless_.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.plusElement(element: T): Sequence<T> {\n return plus(element)\n}\n\n/**\n * Returns a sequence of snapshots of the window of the given [size]\n * sliding along this sequence with the given [step], where each\n * snapshot is a list.\n * \n * Several last lists may have less elements than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.takeWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun <T> Sequence<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): Sequence<List<T>> {\n   return windowedSequence(size, step, partialWindows, reuseBuffer = false)\n}\n\n/**\n * Returns a sequence of results of applying the given [transform] function to\n * an each list representing a view over the window of the given [size]\n * sliding along this sequence with the given [step].\n * \n * Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * Several last lists may have less elements than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.averageWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun <T, R> Sequence<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (List<T>) -> R): Sequence<R> {\n   return windowedSequence(size, step, partialWindows, reuseBuffer = true).map(transform)\n}\n\n/**\n * Returns a sequence of values built from the elements of `this` sequence and the [other] sequence with the same index.\n * The resulting sequence ends as soon as the shortest input sequence ends.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Sequences.Transformations.zip\n */\npublic infix fun <T, R> Sequence<T>.zip(other: Sequence<R>): Sequence<Pair<T, R>> {\n   return MergingSequence(this, other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a sequence of values built from the elements of `this` sequence and the [other] sequence with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The resulting sequence ends as soon as the shortest input sequence ends.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Sequences.Transformations.zipWithTransform\n */\npublic fun <T, R, V> Sequence<T>.zip(other: Sequence<R>, transform: (a: T, b: R) -> V): Sequence<V> {\n   return MergingSequence(this, other, transform)\n}\n\n/**\n * Returns a sequence of pairs of each two adjacent elements in this sequence.\n * \n * The returned sequence is empty if this sequence contains less than two elements.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.zipWithNext\n */\n@SinceKotlin(\"1.2\")\npublic fun <T> Sequence<T>.zipWithNext(): Sequence<Pair<T, T>> {\n   return zipWithNext { a, b -> a to b }\n}\n\n/**\n * Returns a sequence containing the results of applying the given [transform] function\n * to an each pair of two adjacent elements in this sequence.\n * \n * The returned sequence is empty if this sequence contains less than two elements.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas\n */\n@SinceKotlin(\"1.2\")\npublic

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fun <T, R> Sequence<T>.zipWithNext(transform: (a: T, b: T) -> R): Sequence<R> {\n    return sequence result@ {\n        val iterator = iterator()\n        if (!iterator.hasNext()) return@result\n        var current = iterator.next()\n        while (iterator.hasNext()) {\n            val next = iterator.next()\n            yield(transform(current, next))\n            current = next\n        }\n    }\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <T, A : Appendable> Sequence<T>.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((T) -> CharSequence)? = null): A {\n    buffer.append(prefix)\n    var count = 0\n    for (element in this) {\n        if (++count > 1) buffer.append(separator)\n        if (limit < 0 || count <= limit) {\n            buffer.appendElement(element, transform)\n        } else break\n    }\n    if (limit >= 0 && count > limit) buffer.append(truncated)\n    buffer.append(postfix)\n    return buffer\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun <T> Sequence<T>.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((T) -> CharSequence)? = null): String {\n    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original sequence returning its elements when being iterated.\n */\npublic fun <T> Sequence<T>.asIterable(): Iterable<T> {\n    return Iterable { this.iterator() }\n}\n\n/**\n * Returns this sequence as a [Sequence].\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.asSequence(): Sequence<T> {\n    return this\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"averageOfByte\")\npublic fun Sequence<Byte>.average(): Double {\n    var sum: Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n        checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"averageOfShort\")\npublic fun Sequence<Short>.average(): Double {\n    var sum: Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n        checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"averageOfInt\")\npublic fun Sequence<Int>.average(): Double {\n    var sum: Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n        checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"averageOfLong\")\npublic fun Sequence<Long>.average(): Double {\n    var sum: Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n        checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"averageOfFloat\")\npublic fun Sequence<Float>.average(): Double {\n    var sum: Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n        checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"averageOfDouble\")\npublic fun Sequence<Double>.average(): Double {\n    var sum: Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n        checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n
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*/\n@kotlin.jvm.JvmName(\"sumOfByte\")\npublic fun Sequence<Byte>.sum(): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfShort\")\npublic fun Sequence<Short>.sum(): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfInt\")\npublic fun Sequence<Int>.sum(): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfLong\")\npublic fun Sequence<Long>.sum(): Long {\n   var sum: Long = 0L\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfFloat\")\npublic fun Sequence<Float>.sum(): Float {\n   var sum: Float = 0.0f\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfDouble\")\npublic fun Sequence<Double>.sum(): Double {\n   var sum: Double = 0.0\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n",null,"/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"SetsKt\")\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns a set containing all elements of the original set except the given [element].\n * \n * The returned set preserves the element iteration order of the original set.\n */\npublic operator fun <T> Set<T>.minus(element: T): Set<T> {\n   val result = LinkedHashSet<T>(mapCapacity(size))\n   var removed = false\n   return this.filterTo(result) { if (!removed && it == element) { removed = true; false } else true }\n}\n\n/**\n * Returns a set containing all elements of the original set except the elements contained in the given [elements] array.\n * \n * The returned set preserves the element iteration order of the original set.\n * \n * The [elements] array may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n * a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n */\npublic operator fun <T> Set<T>.minus(elements: Array<out T>): Set<T> {\n   val result = LinkedHashSet<T>(this)\n   result.removeAll(elements)\n   return result\n}\n\n/**\n * Returns a set containing all elements of the original set except the elements contained in the given [elements] collection.\n * \n * The returned set preserves the element iteration order of the original set.\n * \n * The [elements] collection may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n * a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n */\npublic operator fun <T> Set<T>.minus(elements: Iterable<T>): Set<T> {\n   val other = elements.convertToSetForSetOperationWith(this)\n   if (other.isEmpty())\n   return this.toSet()\n   if (other is Set)\n   return this.filterNotTo(LinkedHashSet<T>()) { it in other }\n   val result = LinkedHashSet<T>(this)\n   result.removeAll(other)\n   return result\n}\n\n/**\n * Returns a set containing all elements of the original set except the elements contained in the given [elements] sequence.\n * \n * The returned set preserves the element iteration order of the original set.\n * \n * The [elements] sequence may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n * a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n */\npublic operator fun <T> Set<T>.minus(elements: Sequence<T>): Set<T> {\n   val result = LinkedHashSet<T>(this)\n   result.removeAll(elements)\n   return result\n}\n\n/**\n * Returns a set containing all elements of the original set except the given [element].\n * \n * The returned set preserves the element iteration order of the original set.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Set<T>.minusElement(element: T): Set<T> {\n   return minus(element)\n}\n\n/**\n * Returns a set containing all elements of the original set and then the given [element] if it isn't already in this set.\n * \n * The returned set preserves the element iteration order of the original set.\n */\npublic operator fun <T>

Set<T>.plus(element: T): Set<T> {\n   val result = LinkedHashSet<T>(mapCapacity(size + 1))\n result.addAll(this)\n   result.add(element)\n   return result\n}\n\n/**\n * Returns a set containing all elements of the original set and the given [elements] array,\n * which aren't already in this set.\n * \n * The returned set preserves the element iteration order of the original set.\n */\npublic operator fun <T> Set<T>.plus(elements: Array<out T>): Set<T> {\n   val result = LinkedHashSet<T>(mapCapacity(this.size + elements.size))\n   result.addAll(this)\n result.addAll(elements)\n   return result\n}\n\n/**\n * Returns a set containing all elements of the original set and the given [elements] collection,\n * which aren't already in this set.\n * The returned set preserves the element iteration order of the original set.\n */\npublic operator fun <T> Set<T>.plus(elements: Iterable<T>): Set<T> {\n val result = LinkedHashSet<T>(mapCapacity(elements.collectionSizeOrNull()?.let { this.size + it } ?: this.size * 2))\n   result.addAll(this)\n   result.addAll(elements)\n   return result\n}\n\n/**\n * Returns a set containing all elements of the original set and the given [elements] sequence,\n * which aren't already in this set.\n * \n * The returned set preserves the element iteration order of the original set.\n */\npublic operator fun <T> Set<T>.plus(elements: Sequence<T>): Set<T> {\n   val result = LinkedHashSet<T>(mapCapacity(this.size * 2))\n result.addAll(this)\n   result.addAll(elements)\n   return result\n}\n\n/**\n * Returns a set containing all elements of the original set and then the given [element] if it isn't already in this set.\n * \n * The returned set preserves the element iteration order of the original set.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Set<T>.plusElement(element: T): Set<T> {\n   return plus(element)\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"StringsKt\")\n\npackage kotlin.text\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\n\n/**\n * Returns a character at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this char sequence.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun CharSequence.elementAt(index: Int): Char\n\n/**\n * Returns a character at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this char sequence.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns a character at the given [index] or `null` if the [index] is out of bounds of this char sequence.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.elementAtOrNull(index: Int): Char? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns the first character matching the given [predicate], or `null` if no such character was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.find(predicate: (Char) -> Boolean): Char? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the last character matching the given [predicate], or `null` if no such character was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.findLast(predicate: (Char) -> Boolean): Char? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns first character.\n * @throws [NoSuchElementException] if the char sequence is empty.\n */\npublic fun CharSequence.first(): Char {\n   if (isEmpty())\n   throw NoSuchElementException(\"Char sequence is empty.\")\n   return this[0]\n}\n\n/**\n * Returns the first character matching the given [predicate].\n * @throws [NoSuchElementException] if no such character is found.\n */\npublic inline fun CharSequence.first(predicate: (Char) -> Boolean): Char {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Char sequence contains no character matching the predicate.\")\n}\n\n/**\n * Returns the first character, or `null` if the char sequence is empty.\n */\npublic fun CharSequence.firstOrNull(): Char? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first character matching the given [predicate], or `null` if character was not found.\n */\npublic inline fun CharSequence.firstOrNull(predicate: (Char) -> Boolean): Char? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns a character at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this char sequence.\n

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*/\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.getOrElse(index: Int, defaultValue: (Int) -> Char): Char {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns a character at the given [index] or `null` if the [index] is out of bounds of this char sequence.\n */\npublic fun CharSequence.getOrNull(index: Int): Char? {\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns index of the first character matching the given [predicate], or -1 if the char sequence does not contain such character.\n */\npublic inline fun CharSequence.indexOfFirst(predicate: (Char) -> Boolean): Int {\n    for (index in indices) {\n        if (predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the last character matching the given [predicate], or -1 if the char sequence does not contain such character.\n */\npublic inline fun CharSequence.indexOfLast(predicate: (Char) -> Boolean): Int {\n    for (index in indices.reversed()) {\n        if (predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns the last character.\n * @throws [NoSuchElementException] if the char sequence is empty.\n */\npublic fun CharSequence.last(): Char {\n    if (isEmpty())\n        throw NoSuchElementException(\"Char sequence is empty.\")\n    return this[lastIndex]\n}\n\n/**\n * Returns the last character matching the given [predicate].\n * @throws [NoSuchElementException] if no such character is found.\n */\npublic inline fun CharSequence.last(predicate: (Char) -> Boolean): Char {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    throw NoSuchElementException(\"Char sequence contains no character matching the predicate.\")\n}\n\n/**\n * Returns the last character, or `null` if the char sequence is empty.\n */\npublic fun CharSequence.lastOrNull(): Char? {\n    return if (isEmpty()) null else this[length - 1]\n}\n\n/**\n * Returns the last character matching the given [predicate], or `null` if no such character was found.\n */\npublic inline fun CharSequence.lastOrNull(predicate: (Char) -> Boolean): Char? {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns a random character from this char sequence.\n * \n * @throws NoSuchElementException if this char sequence is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.random(): Char {\n    return random(Random)\n}\n\n/**\n * Returns a random character from this char sequence using the specified source of randomness.\n * \n * @throws NoSuchElementException if this char sequence is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun CharSequence.random(random: Random): Char {\n    if (isEmpty())\n        throw NoSuchElementException(\"Char sequence is empty.\")\n    return get(random.nextInt(length))\n}\n\n/**\n * Returns the single character, or throws an exception if the char sequence is empty or has more than one character.\n */\npublic fun CharSequence.single(): Char {\n    return when (length) {\n        0 -> throw NoSuchElementException(\"Char sequence is empty.\")\n        1 -> this[0]\n        else -> throw IllegalArgumentException(\"Char sequence has more than one element.\")\n    }\n}\n\n/**\n * Returns the single character matching the given [predicate], or throws exception if there is no or more than one matching character.\n */\npublic inline fun CharSequence.single(predicate: (Char) -> Boolean): Char {\n    var single: Char? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException(\"Char sequence contains more than one matching element.\")\n            single = element\n            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException(\"Char sequence contains no character matching the predicate.\")\n    @Suppress(\"UNCHECKED_CAST\")\n    return single as Char\n}\n\n/**\n * Returns single character, or `null` if the char sequence is empty or has more than one character.\n */\npublic fun CharSequence.singleOrNull(): Char? {\n    return if (length == 1) this[0] else null\n}\n\n/**\n * Returns the single character matching the given [predicate], or `null` if character was not found or more than one character was found.\n */\npublic inline fun CharSequence.singleOrNull(predicate: (Char) -> Boolean): Char? {\n    var single: Char? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns a subsequence of this char sequence with the first [n] characters removed.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.drop\n */\npublic fun CharSequence.drop(n: Int): CharSequence {\n    require(n >= 0) { \"Requested character count $n is less than zero.\" }\n    return subSequence(n.coerceAtMost(length), length)\n}\n\n/**\n * Returns a string with the first [n] characters
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removed.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.drop\n */\npublic fun String.drop(n: Int): String {\n   require(n >= 0) { \"Requested character count $n is less than zero.\" }\n   return substring(n.coerceAtMost(length))\n}\n\n/**\n * Returns a subsequence of this char sequence with the last [n] characters removed.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.drop\n */\npublic fun CharSequence.dropLast(n: Int): CharSequence {\n   require(n >= 0) { \"Requested character count $n is less than zero.\" }\n   return take((length - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a string with the last [n] characters removed.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.drop\n */\npublic fun String.dropLast(n: Int): String {\n   require(n >= 0) { \"Requested character count $n is less than zero.\" }\n   return take((length - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a subsequence of this char sequence containing all characters except last characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.drop\n */\npublic inline fun CharSequence.dropLastWhile(predicate: (Char) -> Boolean): CharSequence {\n   for (index in lastIndex downTo 0)\n   if (!predicate(this[index]))\n   return subSequence(0, index + 1)\n   return \"\"\n}\n\n/**\n * Returns a string containing all characters except last characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.drop\n */\npublic inline fun String.dropLastWhile(predicate: (Char) -> Boolean): String {\n   for (index in lastIndex downTo 0)\n   if (!predicate(this[index]))\n   return substring(0, index + 1)\n   return \"\"\n}\n\n/**\n * Returns a subsequence of this char sequence containing all characters except first characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.drop\n */\npublic inline fun CharSequence.dropWhile(predicate: (Char) -> Boolean): CharSequence {\n   for (index in this.indices)\n   if (!predicate(this[index]))\n   return subSequence(index, length)\n   return \"\"\n}\n\n/**\n * Returns a string containing all characters except first characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.drop\n */\npublic inline fun String.dropWhile(predicate: (Char) -> Boolean): String {\n   for (index in this.indices)\n   if (!predicate(this[index]))\n   return substring(index)\n   return \"\"\n}\n\n/**\n * Returns a char sequence containing only those characters from the original char sequence that match the given [predicate].\n */\npublic inline fun CharSequence.filter(predicate: (Char) -> Boolean): CharSequence {\n   return filterTo(StringBuilder(), predicate)\n}\n\n/**\n * Returns a string containing only those characters from the original string that match the given [predicate].\n */\npublic inline fun String.filter(predicate: (Char) -> Boolean): String {\n   return filterTo(StringBuilder(), predicate).toString()\n}\n\n/**\n * Returns a char sequence containing only those characters from the original char sequence that match the given [predicate].\n * @param [predicate] function that takes the index of a character and the character itself\n * and returns the result of predicate evaluation on the character.\n */\npublic inline fun CharSequence.filterIndexed(predicate: (index: Int, Char) -> Boolean): CharSequence {\n   return filterIndexedTo(StringBuilder(), predicate)\n}\n\n/**\n * Returns a string containing only those characters from the original string that match the given [predicate].\n * @param [predicate] function that takes the index of a character and the character itself\n * and returns the result of predicate evaluation on the character.\n */\npublic inline fun String.filterIndexed(predicate: (index: Int, Char) -> Boolean): String {\n   return filterIndexedTo(StringBuilder(), predicate).toString()\n}\n\n/**\n * Appends all characters matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of a character and the character itself\n * and returns the result of predicate evaluation on the character.\n */\npublic inline fun <C : Appendable> CharSequence.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.append(element)\n   }\n   return destination\n}\n\n/**\n * Returns a char sequence containing only those characters from the original char sequence that do not match the given [predicate].\n */\npublic inline fun CharSequence.filterNot(predicate: (Char) -> Boolean): CharSequence {\n   return filterNotTo(StringBuilder(), predicate)\n}\n\n/**\n * Returns a string containing only those characters from the original string that do not match the given [predicate].\n */\npublic inline fun String.filterNot(predicate: (Char) -> Boolean): String {\n   return filterNotTo(StringBuilder(), predicate).toString()\n}\n\n/**\n * Appends all characters not matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : Appendable> CharSequence.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {\n   for (element in this) if

(!predicate(element)) destination.append(element)\n   return destination\n}\n\n/**\n * Appends all characters matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : Appendable> CharSequence.filterTo(destination: C, predicate: (Char) -> Boolean): C {\n   for (index in 0 until length) {\n   val element = get(index)\n   if (predicate(element)) destination.append(element)\n   }\n   return destination\n}\n\n/**\n * Returns a char sequence containing characters of the original char sequence at the specified range of [indices].\n */\npublic fun CharSequence.slice(indices: IntRange): CharSequence {\n   if (indices.isEmpty()) return \"\"\n   return subSequence(indices)\n}\n\n/**\n * Returns a string containing characters of the original string at the specified range of [indices].\n */\npublic fun String.slice(indices: IntRange): String {\n   if (indices.isEmpty()) return \"\"\n   return substring(indices)\n}\n\n/**\n * Returns a char sequence containing characters of the original char sequence at specified [indices].\n */\npublic fun CharSequence.slice(indices: Iterable<Int>): CharSequence {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return \"\"\n   val result = StringBuilder(size)\n   for (i in indices) {\n   result.append(get(i))\n   }\n   return result\n}\n\n/**\n * Returns a string containing characters of the original string at specified [indices].\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.slice(indices: Iterable<Int>): String {\n   return (this as CharSequence).slice(indices).toString()\n}\n\n/**\n * Returns a subsequence of this char sequence containing the first [n] characters from this char sequence, or the entire char sequence if this char sequence is shorter.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.take\n */\npublic fun CharSequence.take(n: Int): CharSequence {\n   require(n >= 0) { \"Requested character count $n is less than zero.\" }\n   return subSequence(0, n.coerceAtMost(length))\n}\n\n/**\n * Returns a string containing the first [n] characters from this string, or the entire string if this string is shorter.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.take\n */\npublic fun String.take(n: Int): String {\n   require(n >= 0) { \"Requested character count $n is less than zero.\" }\n   return substring(0, n.coerceAtMost(length))\n}\n\n/**\n * Returns a subsequence of this char sequence containing the last [n] characters from this char sequence, or the entire char sequence if this char sequence is shorter.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.take\n */\npublic fun CharSequence.takeLast(n: Int): CharSequence {\n   require(n >= 0) { \"Requested character count $n is less than zero.\" }\n   val length = length\n   return subSequence(length - n.coerceAtMost(length), length)\n}\n\n/**\n * Returns a string containing the last [n] characters from this string, or the entire string if this string is shorter.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.take\n */\npublic fun String.takeLast(n: Int): String {\n   require(n >= 0) { \"Requested character count $n is less than zero.\" }\n   val length = length\n   return substring(length - n.coerceAtMost(length))\n}\n\n/**\n * Returns a subsequence of this char sequence containing last characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.take\n */\npublic inline fun CharSequence.takeLastWhile(predicate: (Char) -> Boolean): CharSequence {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return subSequence(index + 1, length)\n   }\n   }\n   return subSequence(0, length)\n}\n\n/**\n * Returns a string containing last characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.take\n */\npublic inline fun String.takeLastWhile(predicate: (Char) -> Boolean): String {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return substring(index + 1)\n   }\n   }\n   return this\n}\n\n/**\n * Returns a subsequence of this char sequence containing the first characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.take\n */\npublic inline fun CharSequence.takeWhile(predicate: (Char) -> Boolean): CharSequence {\n   for (index in 0 until length)\n   if (!predicate(get(index))) {\n   return subSequence(0, index)\n   }\n   return subSequence(0, length)\n}\n\n/**\n * Returns a string containing the first characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.take\n */\npublic inline fun String.takeWhile(predicate: (Char) -> Boolean): String {\n   for (index in 0 until length)\n   if (!predicate(get(index))) {\n   return substring(0, index)\n   }\n   return this\n}\n\n/**\n * Returns a char sequence with characters in reversed order.\n */\npublic fun CharSequence.reversed(): CharSequence {\n   return StringBuilder(this).reverse()\n}\n\n/**\n * Returns a string with characters in reversed order.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.reversed(): String {\n   return (this as

CharSequence).reversed().toString()\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to characters of the given char sequence.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original char sequence.\n */\npublic inline fun <K, V> CharSequence.associate(transform: (Char) -> Pair<K, V>): Map<K, V> {\n val capacity = mapCapacity(length).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing the characters from the given char sequence indexed by the key\n * returned from [keySelector] function applied to each character.\n * \n * If any two characters would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original char sequence.\n */\npublic inline fun <K> CharSequence.associateBy(keySelector: (Char) -> K): Map<K, Char> {\n val capacity = mapCapacity(length).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Char>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to characters of the given char sequence.\n * \n * If any two characters would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original char sequence.\n */\npublic inline fun <K, V> CharSequence.associateBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, V> {\n val capacity = mapCapacity(length).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each character of the given char sequence\n * and value is the character itself.\n * \n * If any two characters would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, M : MutableMap<in K, in Char>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to characters of the given char sequence.\n * \n * If any two characters would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each character of the given char sequence.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateTo(destination: M, transform: (Char) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Returns a [Map] where keys are characters from the given char sequence and values are\n * produced by the [valueSelector] function applied to each character.\n * \n * If any two characters are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original char sequence.\n * \n * @sample samples.text.Strings.associateWith\n */\n@SinceKotlin(\"1.3\")\npublic inline fun <V> CharSequence.associateWith(valueSelector: (Char) -> V): Map<Char, V> {\n val result = LinkedHashMap<Char, V>(mapCapacity(length).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each character of the given char sequence,\n * where key is the character itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two characters are equal, the last one overwrites the former value in the map.\n */\n@SinceKotlin(\"1.3\")\npublic inline fun <V, M : MutableMap<in Char, in V>> CharSequence.associateWithTo(destination: M, valueSelector: (Char) -> V): M {\n for (element in this) {\n destination.put(element, valueSelector(element))\n }\n return destination\n}\n\n/**\n * Appends all characters to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Char>> CharSequence.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Returns a [HashSet] of all characters.\n */\npublic fun CharSequence.toHashSet():

HashSet<Char> {\n   return toCollection(HashSet<Char>(mapCapacity(length)))\n}\n\n/**\n * Returns a [List] containing all characters.\n */\npublic fun CharSequence.toList(): List<Char> {\n   return when (length) {\n   0 -> emptyList()\n   1 -> listOf(this[0])\n   else -> this.toMutableList()\n   }\n}\n\n/**\n * Returns a [MutableList] filled with all characters of this char sequence.\n */\npublic fun CharSequence.toMutableList(): MutableList<Char> {\n   return toCollection(ArrayList<Char>(length))\n}\n\n/**\n * Returns a [Set] of all characters.\n * \n * The returned set preserves the element iteration order of the original char sequence.\n */\npublic fun CharSequence.toSet(): Set<Char> {\n   return when (length) {\n   0 -> emptySet()\n   1 -> setOf(this[0])\n   else -> toCollection(LinkedHashSet<Char>(mapCapacity(length)))\n   }\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each character of original char sequence.\n */\npublic inline fun <R> CharSequence.flatMap(transform: (Char) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each character of original char sequence, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> CharSequence.flatMapTo(destination: C, transform: (Char) -> Iterable<R>): C {\n   for (element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Groups characters of the original char sequence by the key returned by the given [keySelector] function\n * applied to each character and returns a map where each group key is associated with a list of corresponding characters.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original char sequence.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> CharSequence.groupBy(keySelector: (Char) -> K): Map<K, List<Char>> {\n   return groupByTo(LinkedHashMap<K, MutableList<Char>>(), keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each character of the original char sequence\n * by the key returned by the given [keySelector] function applied to the character\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original char sequence.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> CharSequence.groupBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups characters of the original char sequence by the key returned by the given [keySelector] function\n * applied to each character and puts to the [destination] map each group key associated with a list of corresponding characters.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Char>>> CharSequence.groupByTo(destination: M, keySelector: (Char) -> K): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<Char>() }\n   list.add(element)\n   }\n   return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each character of the original char sequence\n * by the key returned by the given [keySelector] function applied to the character\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> CharSequence.groupByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<V>() }\n   list.add(valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Creates a [Grouping] source from a char sequence to be used later with one of group-and-fold operations\n * using the specified [keySelector] function to extract a key from each character.\n * \n * @sample samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <K> CharSequence.groupingBy(crossinline keySelector: (Char) -> K): Grouping<Char, K> {\n   return object : Grouping<Char, K> {\n   override fun sourceIterator(): Iterator<Char> = this@groupingBy.iterator()\n   override fun keyOf(element: Char): K = keySelector(element)\n   }\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each character in the original char sequence.\n * \n * @sample samples.text.Strings.map\n */\npublic inline fun <R> CharSequence.map(transform: (Char) -> R):

List<R> {\n   return mapTo(ArrayList<R>(length), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each character and its index in the original char sequence.\n * @param [transform] function that takes the index of a character and the character itself\n * and returns the result of the transform applied to the character.\n */\npublic inline fun <R> CharSequence.mapIndexed(transform: (index: Int, Char) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(length), transform)\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each character and its index in the original char sequence.\n * @param [transform] function that takes the index of a character and the character itself\n * and returns the result of the transform applied to the character.\n */\npublic inline fun <R : Any> CharSequence.mapIndexedNotNull(transform: (index: Int, Char) -> R?): List<R> {\n   return mapIndexedNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each character and its index in the original char sequence\n * and appends only the non-null results to the given [destination].\n * @param [transform] function that takes the index of a character and the character itself\n * and returns the result of the transform applied to the character.\n */\npublic inline fun <R : Any, C : MutableCollection<in R>> CharSequence.mapIndexedNotNullTo(destination: C, transform: (index: Int, Char) -> R?): C {\n   forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each character and its index in the original char sequence\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of a character and the character itself\n * and returns the result of the transform applied to the character.\n */\npublic inline fun <R, C : MutableCollection<in R>> CharSequence.mapIndexedTo(destination: C, transform: (index: Int, Char) -> R): C {\n   var index = 0\n   for (item in this)\n   destination.add(transform(index++, item))\n   return destination\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each character in the original char sequence.\n */\npublic inline fun <R : Any> CharSequence.mapNotNull(transform: (Char) -> R?): List<R> {\n   return mapNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each character in the original char sequence\n * and appends only the non-null results to the given [destination].\n */\npublic inline fun <R : Any, C : MutableCollection<in R>> CharSequence.mapNotNullTo(destination: C, transform: (Char) -> R?): C {\n   forEach { element -> transform(element)?.let { destination.add(it) } }\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each character of the original char sequence\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> CharSequence.mapTo(destination: C, transform: (Char) -> R): C {\n   for (item in this)\n   destination.add(transform(item))\n   return destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each character of the original char sequence\n * into an [IndexedValue] containing the index of that character and the character itself.\n */\npublic fun CharSequence.withIndex(): Iterable<IndexedValue<Char>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns `true` if all characters match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun CharSequence.all(predicate: (Char) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if char sequence has at least one character.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun CharSequence.any(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if at least one character matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun CharSequence.any(predicate: (Char) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return true\n   return false\n}\n\n/**\n * Returns the length of this char sequence.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.count(): Int {\n   return length\n}\n\n/**\n * Returns the number of characters matching the given [predicate].\n */\npublic inline fun CharSequence.count(predicate: (Char) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each character.\n */\npublic inline fun <R> CharSequence.fold(initial: R, operation: (acc: R, Char) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n *

Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each character with its index in the original char sequence.\n * @param [operation] function that takes the index of a character, current accumulator value\n * and the character itself, and calculates the next accumulator value.\n */\npublic inline fun <R> CharSequence.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each character and current accumulator value.\n */\npublic inline fun <R> CharSequence.foldRight(initial: R, operation: (Char, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each character with its index in the original char sequence and current accumulator value.\n * @param [operation] function that takes the index of a character, the character itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> CharSequence.foldRightIndexed(initial: R, operation: (index: Int, Char, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Performs the given [action] on each character.\n */\npublic inline fun CharSequence.forEach(action: (Char) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each character, providing sequential index with the character.\n * @param [action] function that takes the index of a character and the character itself\n * and performs the desired action on the character.\n */\npublic inline fun CharSequence.forEachIndexed(action: (index: Int, Char) -> Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Returns the largest character or `null` if there are no characters.\n */\npublic fun CharSequence.max(): Char? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the first character yielding the largest value of the given function or `null` if there are no characters.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>> CharSequence.maxBy(selector: (Char) -> R): Char? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first character having the largest value according to the provided [comparator] or `null` if there are no characters.\n */\npublic fun CharSequence.maxWith(comparator: Comparator<in Char>): Char? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the smallest character or `null` if there are no characters.\n */\npublic fun CharSequence.min(): Char? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the first character yielding the smallest value of the given function or `null` if there are no characters.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R : Comparable<R>> CharSequence.minBy(selector: (Char) -> R): Char? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first character having the smallest value according to the provided [comparator] or `null` if there are no characters.\n */\npublic fun CharSequence.minWith(comparator: Comparator<in Char>): Char? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns `true` if the char sequence has no characters.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun CharSequence.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if no characters match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun

CharSequence.none(predicate: (Char) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Performs the given [action] on each character and returns the char sequence itself afterwards.\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <S : CharSequence> S.onEach(action: (Char) -> Unit): S {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Accumulates value starting with the first character and applying [operation] from left to right to current accumulator value and each character.\n */\npublic inline fun CharSequence.reduce(operation: (acc: Char, Char) -> Char): Char {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty char sequence can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first character and applying [operation] from left to right\n * to current accumulator value and each character with its index in the original char sequence.\n * @param [operation] function that takes the index of a character, current accumulator value\n * and the character itself and calculates the next accumulator value.\n */\npublic inline fun CharSequence.reduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): Char {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty char sequence can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last character and applying [operation] from right to left to each character and current accumulator value.\n */\npublic inline fun CharSequence.reduceRight(operation: (Char, acc: Char) -> Char): Char {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty char sequence can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last character and applying [operation] from right to left\n * to each character with its index in the original char sequence and current accumulator value.\n * @param [operation] function that takes the index of a character, the character itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun CharSequence.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty char sequence can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each character in the char sequence.\n */\npublic inline fun CharSequence.sumBy(selector: (Char) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each character in the char sequence.\n */\npublic inline fun CharSequence.sumByDouble(selector: (Char) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Splits this char sequence into a list of strings each not exceeding the given [size].\n * \n * The last string in the resulting list may have less characters than the given [size].\n * \n * @param size the number of elements to take in each string, must be positive and can be greater than the number of elements in this char sequence.\n * \n * @sample samples.collections.Collections.Transformations.chunked\n */\n@SinceKotlin(\"1.2\")\npublic fun CharSequence.chunked(size: Int): List<String> {\n return windowed(size, size, partialWindows = true)\n}\n\n/**\n * Splits this char sequence into several char sequences each not exceeding the given [size]\n * and applies the given [transform] function to an each.\n * \n * @return list of results of the [transform] applied to an each char sequence.\n * \n * Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * The last char sequence may have less characters than the given [size].\n * \n * @param size the number of elements to take in each char sequence, must be positive and can be greater than the number of elements in this char sequence.\n * \n * @sample samples.text.Strings.chunkedTransform\n */\n@SinceKotlin(\"1.2\")\npublic fun <R> CharSequence.chunked(size: Int, transform: (CharSequence) -> R): List<R> {\n return windowed(size, size, partialWindows = true, transform = transform)\n}\n\n/**\n * Splits this char sequence into a sequence of strings each not exceeding the given [size].\n * \n * The last string in the resulting sequence may have less characters than the given [size].\n * \n * @param size the number of elements to take in

each string, must be positive and can be greater than the number of elements in this char sequence.\n * \n * @sample samples.collections.Collections.Transformations.chunked\n */\n@SinceKotlin(\"1.2\")\npublic fun CharSequence.chunkedSequence(size: Int): Sequence<String> {\n return chunkedSequence(size) { it.toString() }\n}\n\n/**\n * Splits this char sequence into several char sequences each not exceeding the given [size]\n * and applies the given [transform] function to an each.\n * \n * @return sequence of results of the [transform] applied to an each char sequence.\n * \n * Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * The last char sequence may have less characters than the given [size].\n * \n * @param size the number of elements to take in each char sequence, must be positive and can be greater than the number of elements in this char sequence.\n * \n * @sample samples.text.Strings.chunkedTransformToSequence\n */\n@SinceKotlin(\"1.2\")\npublic fun <R> CharSequence.chunkedSequence(size: Int, transform: (CharSequence) -> R): Sequence<R> {\n return windowedSequence(size, size, partialWindows = true, transform = transform)\n}\n\n/**\n * Splits the original char sequence into pair of char sequences,\n * where *first* char sequence contains characters for which [predicate] yielded `true`,\n * while *second* char sequence contains characters for which [predicate] yielded `false`.\n */\npublic inline fun CharSequence.partition(predicate: (Char) -> Boolean): Pair<CharSequence, CharSequence> {\n val first = StringBuilder()\n val second = StringBuilder()\n for (element in this) {\n if (predicate(element)) {\n first.append(element)\n } else {\n second.append(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original string into pair of strings,\n * where *first* string contains characters for which [predicate] yielded `true`,\n * while *second* string contains characters for which [predicate] yielded `false`.\n */\npublic inline fun String.partition(predicate: (Char) -> Boolean): Pair<String, String> {\n val first = StringBuilder()\n val second = StringBuilder()\n for (element in this) {\n if (predicate(element)) {\n first.append(element)\n } else {\n second.append(element)\n }\n }\n return Pair(first.toString(), second.toString())\n}\n\n/**\n * Returns a list of snapshots of the window of the given [size]\n * sliding along this char sequence with the given [step], where each\n * snapshot is a string.\n * \n * Several last strings may have less characters than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.takeWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun CharSequence.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<String> {\n return windowed(size, step, partialWindows) { it.toString() }\n}\n\n/**\n * Returns a list of results of applying the given [transform] function to\n * an each char sequence representing a view over the window of the given [size]\n * sliding along this char sequence with the given [step].\n * \n * Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * Several last char sequences may have less characters than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.averageWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun <R> CharSequence.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (CharSequence) -> R): List<R> {\n checkWindowSizeStep(size, step)\n val thisSize = this.length\n val result = ArrayList<R>((thisSize + step - 1) / step)\n var index = 0\n while (index < thisSize) {\n val end = index + size\n val coercedEnd = if (end > thisSize) { if (partialWindows) thisSize else break } else end\n result.add(transform(subSequence(index, coercedEnd)))\n index += step\n }\n return result\n}\n\n/**\n * Returns a sequence of snapshots of the window of the given [size]\n * sliding along this char sequence with the given [step], where each\n * snapshot is a string.\n * \n * Several last strings may have less

characters than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.takeWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows: Boolean = false): Sequence<String> {\n   return windowedSequence(size, step, partialWindows) { it.toString() }\n}\n\n/**\n * Returns a sequence of results of applying the given [transform] function to\n * an each char sequence representing a view over the window of the given [size]\n * sliding along this char sequence with the given [step].\n * \n * Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * Several last char sequences may have less characters than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.averageWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun <R> CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (CharSequence) -> R): Sequence<R> {\n   checkWindowSizeStep(size, step)\n   val windows = (if (partialWindows) indices else 0 until length - size + 1) step step\n   return windows.asSequence().map { index -> transform(subSequence(index, (index + size).coerceAtMost(length))) }\n}\n\n/**\n * Returns a list of pairs built from the characters of `this` and the [other] char sequences with the same index\n * The returned list has length of the shortest char sequence.\n * \n * @sample samples.text.Strings.zip\n */\npublic infix fun CharSequence.zip(other: CharSequence): List<Pair<Char, Char>> {\n   return zip(other) { c1, c2 -> c1 to c2 }\n}\n\n/**\n * Returns a list of values built from the characters of `this` and the [other] char sequences with the same index\n * using the provided [transform] function applied to each pair of characters.\n * The returned list has length of the shortest char sequence.\n * \n * @sample samples.text.Strings.zipWithTransform\n */\npublic inline fun <V> CharSequence.zip(other: CharSequence, transform: (a: Char, b: Char) -> V): List<V> {\n   val length = minOf(this.length, other.length)\n   val list = ArrayList<V>(length)\n   for (i in 0 until length) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of pairs of each two adjacent characters in this char sequence.\n * \n * The returned list is empty if this char sequence contains less than two characters.\n * \n * @sample samples.collections.Collections.Transformations.zipWithNext\n */\n@SinceKotlin(\"1.2\")\npublic fun CharSequence.zipWithNext(): List<Pair<Char, Char>> {\n   return zipWithNext { a, b -> a to b }\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to an each pair of two adjacent characters in this char sequence.\n * \n * The returned list is empty if this char sequence contains less than two characters.\n * \n * @sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas\n */\n@SinceKotlin(\"1.2\")\npublic inline fun <R> CharSequence.zipWithNext(transform: (a: Char, b: Char) -> R): List<R> {\n   val size = length - 1\n   if (size < 1) return emptyList()\n   val result = ArrayList<R>(size)\n   for (index in 0 until size) {\n   result.add(transform(this[index], this[index + 1]))\n   }\n   return result\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original char sequence returning its characters when being iterated.\n */\npublic fun CharSequence.asIterable(): Iterable<Char> {\n   if (this is String && isEmpty()) return emptyList()\n   return Iterable { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original char sequence returning its characters when being iterated.\n */\npublic fun CharSequence.asSequence(): Sequence<Char> {\n   if (this is String && isEmpty()) return emptySequence()\n   return Sequence { this.iterator() }\n}\n\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"StringsKt\")\r\n\r\npackage

kotlin.text\r\n\r\nimport kotlin.contracts.contract\r\n\r\n/**\r\n * Returns a sub sequence of this char sequence having leading and trailing characters matching the [predicate] removed.\r\n */\r\npublic inline fun CharSequence.trim(predicate: (Char) -> Boolean): CharSequence {\r\n   var startIndex = 0\r\n   var endIndex = length - 1\r\n   var startFound = false\r\n\r\n   while (startIndex <= endIndex) {\r\n   val index = if (!startFound) startIndex else endIndex\r\n   val match = predicate(this[index])\r\n\r\n   if (!startFound) {\r\n   if (!match)\r\n   startFound = true\r\n   else\r\n   startIndex += 1\r\n   } else {\r\n   if (!match)\r\n   break\r\n   else\r\n   endIndex -= 1\r\n   }\r\n   }\r\n\r\n   return subSequence(startIndex, endIndex + 1)\r\n}\r\n\r\n/**\r\n * Returns a string having leading and trailing characters matching the [predicate] removed.\r\n */\r\npublic inline fun String.trim(predicate: (Char) -> Boolean): String =\r\n   (this as CharSequence).trim(predicate).toString()\r\n\r\n/**\r\n * Returns a sub sequence of this char sequence having leading characters matching the [predicate] removed.\r\n */\r\npublic inline fun CharSequence.trimStart(predicate: (Char) -> Boolean): CharSequence {\r\n   for (index in this.indices)\r\n   if (!predicate(this[index]))\r\n   return subSequence(index, length)\r\n\r\n   return \"\"\r\n}\r\n\r\n/**\r\n * Returns a string having leading characters matching the [predicate] removed.\r\n */\r\npublic inline fun String.trimStart(predicate: (Char) -> Boolean): String =\r\n   (this as CharSequence).trimStart(predicate).toString()\r\n\r\n/**\r\n * Returns a sub sequence of this char sequence having trailing characters matching the [predicate] removed.\r\n */\r\npublic inline fun CharSequence.trimEnd(predicate: (Char) -> Boolean): CharSequence {\r\n   for (index in this.indices.reversed())\r\n   if (!predicate(this[index]))\r\n   return subSequence(0, index + 1)\r\n\r\n   return \"\"\r\n}\r\n\r\n/**\r\n * Returns a string having trailing characters matching the [predicate] removed.\r\n */\r\npublic inline fun String.trimEnd(predicate: (Char) -> Boolean): String =\r\n   (this as CharSequence).trimEnd(predicate).toString()\r\n\r\n/**\r\n * Returns a sub sequence of this char sequence having leading and trailing characters from the [chars] array removed.\r\n */\r\npublic fun CharSequence.trim(vararg chars: Char): CharSequence = trim { it in chars }\r\n\r\n/**\r\n * Returns a string having leading and trailing characters from the [chars] array removed.\r\n */\r\npublic fun String.trim(vararg chars: Char): String = trim { it in chars }\r\n\r\n/**\r\n * Returns a sub sequence of this char sequence having leading characters from the [chars] array removed.\r\n */\r\npublic fun CharSequence.trimStart(vararg chars: Char): CharSequence = trimStart { it in chars }\r\n\r\n/**\r\n * Returns a string having leading characters from the [chars] array removed.\r\n */\r\npublic fun String.trimStart(vararg chars: Char): String = trimStart { it in chars }\r\n\r\n/**\r\n * Returns a sub sequence of this char sequence having trailing characters from the [chars] array removed.\r\n */\r\npublic fun CharSequence.trimEnd(vararg chars: Char): CharSequence = trimEnd { it in chars }\r\n\r\n/**\r\n * Returns a string having trailing characters from the [chars] array removed.\r\n */\r\npublic fun String.trimEnd(vararg chars: Char): String = trimEnd { it in chars }\r\n\r\n/**\r\n * Returns a sub sequence of this char sequence having leading and trailing whitespace removed.\r\n */\r\npublic fun CharSequence.trim(): CharSequence = trim(Char::isWhitespace)\r\n\r\n/**\r\n * Returns a string having leading and trailing whitespace removed.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun String.trim(): String = (this as CharSequence).trim().toString()\r\n\r\n/**\r\n * Returns a sub sequence of this char sequence having leading whitespace removed.\r\n */\r\npublic fun CharSequence.trimStart(): CharSequence = trimStart(Char::isWhitespace)\r\n\r\n/**\r\n * Returns a string having leading whitespace removed.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun String.trimStart(): String = (this as CharSequence).trimStart().toString()\r\n\r\n/**\r\n * Returns a sub sequence of this char sequence having trailing whitespace removed.\r\n */\r\npublic fun CharSequence.trimEnd(): CharSequence = trimEnd(Char::isWhitespace)\r\n\r\n/**\r\n * Returns a string having trailing whitespace removed.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun String.trimEnd(): String = (this as CharSequence).trimEnd().toString()\r\n\r\n/**\r\n * Returns a char sequence with content of this char sequence padded at the beginning\r\n * to the specified [length] with the specified character or space.\r\n *\r\n * @param length the desired string length.\r\n * @param padChar the character to pad string with, if it has length less than the [length] specified. Space is used by default.\r\n * @return Returns a char sequence of length at least [length]

consisting of `this` char sequence prepended with [padChar] as many times\r\n * as are necessary to reach that length.\r\n * @sample samples.text.Strings.padStart\r\n */\r\npublic fun CharSequence.padStart(length: Int, padChar: Char = ' '): CharSequence {\r\n if (length < 0)\r\n throw IllegalArgumentException(\"Desired length $length is less than zero.\")\r\n if (length <= this.length)\r\n return this.subSequence(0, this.length)\r\n\r\n val sb = StringBuilder(length)\r\n for (i in 1..(length - this.length))\r\n sb.append(padChar)\r\n sb.append(this)\r\n return sb\r\n}\r\n\r\n/**\r\n * Pads the string to the specified [length] at the beginning with the specified character or space.\r\n *\r\n * @param length the desired string length.\r\n * @param padChar the character to pad string with, if it has length less than the [length] specified. Space is used by default.\r\n * @return Returns a string of length at least [length] consisting of `this` string prepended with [padChar] as many times\r\n * as are necessary to reach that length.\r\n * @sample samples.text.Strings.padStart\r\n */\r\npublic fun String.padStart(length: Int, padChar: Char = ' '): String =\r\n (this as CharSequence).padStart(length, padChar).toString()\r\n\r\n/**\r\n * Returns a char sequence with content of this char sequence padded at the end\r\n * to the specified [length] with the specified character or space.\r\n *\r\n * @param length the desired string length.\r\n * @param padChar the character to pad string with, if it has length less than the [length] specified. Space is used by default.\r\n * @return Returns a char sequence of length at least [length] consisting of `this` char sequence appended with [padChar] as many times\r\n * as are necessary to reach that length.\r\n * @sample samples.text.Strings.padEnd\r\n */\r\npublic fun CharSequence.padEnd(length: Int, padChar: Char = ' '): CharSequence {\r\n if (length < 0)\r\n throw IllegalArgumentException(\"Desired length $length is less than zero.\")\r\n if (length <= this.length)\r\n return this.subSequence(0, this.length)\r\n\r\n val sb = StringBuilder(length)\r\n sb.append(this)\r\n for (i in 1..(length - this.length))\r\n sb.append(padChar)\r\n return sb\r\n}\r\n\r\n/**\r\n * Pads the string to the specified [length] at the end with the specified character or space.\r\n *\r\n * @param length the desired string length.\r\n * @param padChar the character to pad string with, if it has length less than the [length] specified. Space is used by default.\r\n * @return Returns a string of length at least [length] consisting of `this` string appended with [padChar] as many times\r\n * as are necessary to reach that length.\r\n * @sample samples.text.Strings.padEnd\r\n */\r\npublic fun String.padEnd(length: Int, padChar: Char = ' '): String =\r\n (this as CharSequence).padEnd(length, padChar).toString()\r\n\r\n/**\r\n * Returns `true` if this nullable char sequence is either `null` or empty.\r\n *\r\n * @sample samples.text.Strings.stringIsNullOrEmpty\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun CharSequence?.isNullOrEmpty(): Boolean {\r\n contract {\r\n returns(false) implies (this@isNullOrEmpty != null)\r\n }\r\n\r\n return this == null || this.length == 0\r\n}\r\n\r\n/**\r\n * Returns `true` if this char sequence is empty (contains no characters).\r\n *\r\n * @sample samples.text.Strings.stringIsEmpty\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun CharSequence.isEmpty(): Boolean = length == 0\r\n\r\n/**\r\n * Returns `true` if this char sequence is not empty.\r\n *\r\n * @sample samples.text.Strings.stringIsNotEmpty\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun CharSequence.isNotEmpty(): Boolean = length > 0\r\n\r\n// implemented differently in JVM and JS\r\n//public fun String.isBlank(): Boolean = length() == 0 || all { it.isWhitespace() }\r\n\r\n\r\n/**\r\n * Returns `true` if this char sequence is not empty and contains some characters except of whitespace characters.\r\n *\r\n * @sample samples.text.Strings.stringIsNotBlank\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun CharSequence.isNotBlank(): Boolean = !isBlank()\r\n\r\n/**\r\n * Returns `true` if this nullable char sequence is either `null` or empty or consists solely of whitespace characters.\r\n *\r\n * @sample samples.text.Strings.stringIsNullOrBlank\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun CharSequence?.isNullOrBlank(): Boolean {\r\n contract {\r\n returns(false) implies (this@isNullOrBlank != null)\r\n }\r\n\r\n return this == null || this.isBlank()\r\n}\r\n\r\n/**\r\n * Iterator for characters of the given char sequence.\r\n */\r\npublic operator fun CharSequence.iterator(): CharIterator = object : CharIterator() {\r\n private var index = 0\r\n\r\n public override fun nextChar(): Char = get(index++)\r\n\r\n public override fun hasNext(): Boolean = index < length\r\n}\r\n\r\n/** Returns the string if it is not `null`, or the empty string otherwise. */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun String?.orEmpty(): String = this ?: \"\"\r\n\r\n/**\r\n * Returns this char sequence if it's not empty\r\n * or the result of calling [defaultValue] function if the char sequence is empty.\r\n *\r\n * @sample samples.text.Strings.stringIfEmpty\r\n

*/\r\n@SinceKotlin(\"1.3\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : CharSequence, C : R =\r\n   if (isEmpty()) defaultValue() else this\r\n\r\n/**\r\n * Returns this char sequence if it is not empty and doesn't consist solely of whitespace characters,\r\n * or the result of calling [defaultValue] function otherwise.\r\n *\r\n * @sample samples.text.Strings.stringIfBlank\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <C, R> C.ifBlank(defaultValue: () -> R): R where C : CharSequence, C : R =\r\n   if (isBlank()) defaultValue() else this\r\n\r\n/**\r\n * Returns the range of valid character indices for this char sequence.\r\n */\r\npublic val CharSequence.indices: IntRange\r\n   get() = 0..length - 1\r\n\r\n/**\r\n * Returns the index of the last character in the char sequence or -1 if it is empty.\r\n */\r\npublic val CharSequence.lastIndex: Int\r\n   get() = this.length - 1\r\n\r\n/**\r\n * Returns `true` if this CharSequence has Unicode surrogate pair at the specified [index].\r\n */\r\npublic fun CharSequence.hasSurrogatePairAt(index: Int): Boolean {\r\n   return index in 0..length - 2\r\n   && this[index].isHighSurrogate()\r\n   && this[index + 1].isLowSurrogate()\r\n}\r\n\r\n/**\r\n * Returns a substring specified by the given [range] of indices.\r\n */\r\npublic fun String.substring(range: IntRange): String = substring(range.start, range.endInclusive + 1)\r\n\r\n/**\r\n * Returns a subsequence of this char sequence specified by the given [range] of indices.\r\n */\r\npublic fun CharSequence.subSequence(range: IntRange): CharSequence = subSequence(range.start, range.endInclusive + 1)\r\n\r\n/**\r\n * Returns a subsequence of this char sequence.\r\n *\r\n * This extension is chosen only for invocation with old-named parameters.\r\n * Replace parameter names with the same as those of [CharSequence.subSequence].\r\n */\r\n@kotlin.internal.InlineOnly\r\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\") // false warning\r\n@Deprecated(\"Use parameters named startIndex and endIndex.\", ReplaceWith(\"subSequence(startIndex = start, endIndex = end)\"))\r\npublic inline fun String.subSequence(start: Int, end: Int): CharSequence = subSequence(start, end)\r\n\r\n/**\r\n * Returns a substring of chars from a range of this char sequence starting at the [startIndex] and ending right before the [endIndex].\r\n *\r\n * @param startIndex the start index (inclusive).\r\n * @param endIndex the end index (exclusive). If not specified, the length of the char sequence is used.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun CharSequence.substring(startIndex: Int, endIndex: Int = length): String = subSequence(startIndex, endIndex).toString()\r\n\r\n/**\r\n * Returns a substring of chars at indices from the specified [range] of this char sequence.\r\n */\r\npublic fun CharSequence.substring(range: IntRange): String = subSequence(range.start, range.endInclusive + 1).toString()\r\n\r\n/**\r\n * Returns a substring before the first occurrence of [delimiter].\r\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\r\n */\r\npublic fun String.substringBefore(delimiter: Char, missingDelimiterValue: String = this): String {\r\n   val index = indexOf(delimiter)\r\n   return if (index == -1) missingDelimiterValue else substring(0, index)\r\n}\r\n\r\n/**\r\n * Returns a substring before the first occurrence of [delimiter].\r\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\r\n */\r\npublic fun String.substringBefore(delimiter: String, missingDelimiterValue: String = this): String {\r\n   val index = indexOf(delimiter)\r\n   return if (index == -1) missingDelimiterValue else substring(0, index)\r\n}\r\n\r\n/**\r\n * Returns a substring after the first occurrence of [delimiter].\r\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\r\n */\r\npublic fun String.substringAfter(delimiter: Char, missingDelimiterValue: String = this): String {\r\n   val index = indexOf(delimiter)\r\n   return if (index == -1) missingDelimiterValue else substring(index + 1, length)\r\n}\r\n\r\n/**\r\n * Returns a substring after the first occurrence of [delimiter].\r\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\r\n */\r\npublic fun String.substringAfter(delimiter: String, missingDelimiterValue: String = this): String {\r\n   val index = indexOf(delimiter)\r\n   return if (index == -1) missingDelimiterValue else substring(index + delimiter.length, length)\r\n}\r\n\r\n/**\r\n * Returns a substring before the last occurrence of [delimiter].\r\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\r\n */\r\npublic fun String.substringBeforeLast(delimiter: Char, missingDelimiterValue: String = this): String {\r\n   val index = lastIndexOf(delimiter)\r\n   return if (index == -1) missingDelimiterValue else substring(0, index)\r\n}\r\n\r\n/**\r\n * Returns a substring before the last occurrence of [delimiter].\r\n * If the string does not contain the delimiter,

returns [missingDelimiterValue] which defaults to the original string.\r\n */\r\npublic fun String.substringBeforeLast(delimiter: String, missingDelimiterValue: String = this): String {\r\n val index = lastIndexOf(delimiter)\r\n return if (index == -1) missingDelimiterValue else substring(0, index)\r\n}\r\n\r\n/**\r\n * Returns a substring after the last occurrence of [delimiter].\r\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\r\n */\r\npublic fun String.substringAfterLast(delimiter: Char, missingDelimiterValue: String = this): String {\r\n val index = lastIndexOf(delimiter)\r\n return if (index == -1) missingDelimiterValue else substring(index + 1, length)\r\n}\r\n\r\n/**\r\n * Returns a substring after the last occurrence of [delimiter].\r\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\r\n */\r\npublic fun String.substringAfterLast(delimiter: String, missingDelimiterValue: String = this): String {\r\n val index = lastIndexOf(delimiter)\r\n return if (index == -1) missingDelimiterValue else substring(index + delimiter.length, length)\r\n}\r\n\r\n/**\r\n * Returns a char sequence with content of this char sequence where its part at the given range\r\n * is replaced with the [replacement] char sequence.\r\n * @param startIndex the index of the first character to be replaced.\r\n * @param endIndex the index of the first character after the replacement to keep in the string.\r\n */\r\npublic fun CharSequence.replaceRange(startIndex: Int, endIndex: Int, replacement: CharSequence): CharSequence {\r\n if (endIndex < startIndex)\r\n throw IndexOutOfBoundsException(\"End index ($endIndex) is less than start index ($startIndex).\")\r\n val sb = StringBuilder()\r\n sb.append(this, 0, startIndex)\r\n sb.append(replacement)\r\n sb.append(this, endIndex, length)\r\n return sb\r\n}\r\n\r\n/**\r\n * Replaces the part of the string at the given range with the [replacement] char sequence.\r\n * @param startIndex the index of the first character to be replaced.\r\n * @param endIndex the index of the first character after the replacement to keep in the string.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun String.replaceRange(startIndex: Int, endIndex: Int, replacement: CharSequence): String =\r\n (this as CharSequence).replaceRange(startIndex, endIndex, replacement).toString()\r\n\r\n/**\r\n * Returns a char sequence with content of this char sequence where its part at the given [range]\r\n * is replaced with the [replacement] char sequence.\r\n *\r\n * The end index of the [range] is included in the part to be replaced.\r\n */\r\npublic fun CharSequence.replaceRange(range: IntRange, replacement: CharSequence): CharSequence =\r\n replaceRange(range.start, range.endInclusive + 1, replacement)\r\n\r\n/**\r\n * Replace the part of string at the given [range] with the [replacement] string.\r\n *\r\n * The end index of the [range] is included in the part to be replaced.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun String.replaceRange(range: IntRange, replacement: CharSequence): String =\r\n (this as CharSequence).replaceRange(range, replacement).toString()\r\n\r\n/**\r\n * Returns a char sequence with content of this char sequence where its part at the given range is removed.\r\n *\r\n * @param startIndex the index of the first character to be removed.\r\n * @param endIndex the index of the first character after the removed part to keep in the string.\r\n *\r\n * [endIndex] is not included in the removed part.\r\n */\r\npublic fun CharSequence.removeRange(startIndex: Int, endIndex: Int): CharSequence {\r\n if (endIndex < startIndex)\r\n throw IndexOutOfBoundsException(\"End index ($endIndex) is less than start index ($startIndex).\")\r\n\r\n if (endIndex == startIndex)\r\n return this.subSequence(0, length)\r\n\r\n val sb = StringBuilder(length - (endIndex - startIndex))\r\n sb.append(this, 0, startIndex)\r\n sb.append(this, endIndex, length)\r\n return sb\r\n}\r\n\r\n/**\r\n * Removes the part of a string at a given range.\r\n * @param startIndex the index of the first character to be removed.\r\n * @param endIndex the index of the first character after the removed part to keep in the string.\r\n *\r\n * [endIndex] is not included in the removed part.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun String.removeRange(startIndex: Int, endIndex: Int): String =\r\n (this as CharSequence).removeRange(startIndex, endIndex).toString()\r\n\r\n/**\r\n * Returns a char sequence with content of this char sequence where its part at the given [range] is removed.\r\n *\r\n * The end index of the [range] is included in the removed part.\r\n */\r\npublic fun CharSequence.removeRange(range: IntRange): CharSequence = removeRange(range.start, range.endInclusive + 1)\r\n\r\n/**\r\n * Removes the part of a string at the given [range].\r\n *\r\n * The end index of the [range] is included in the removed part.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun String.removeRange(range: IntRange): String =\r\n (this as CharSequence).removeRange(range).toString()\r\n\r\n/**\r\n * If this char

sequence starts with the given [prefix], returns a new char sequence\r\n * with the prefix removed. Otherwise, returns a new char sequence with the same characters.\r\n */\r\npublic fun CharSequence.removePrefix(prefix: CharSequence): CharSequence {\r\n if (startsWith(prefix)) {\r\n return subSequence(prefix.length, length)\r\n }\r\n return subSequence(0, length)\r\n}\r\n\r\n/**\r\n * If this string starts with the given [prefix], returns a copy of this string\r\n * with the prefix removed. Otherwise, returns this string.\r\n */\r\npublic fun String.removePrefix(prefix: CharSequence): String {\r\n if (startsWith(prefix)) {\r\n return substring(prefix.length)\r\n }\r\n return this\r\n}\r\n\r\n/**\r\n * If this char sequence ends with the given [suffix], returns a new char sequence\r\n * with the suffix removed. Otherwise, returns a new char sequence with the same characters.\r\n */\r\npublic fun CharSequence.removeSuffix(suffix: CharSequence): CharSequence {\r\n if (endsWith(suffix)) {\r\n return subSequence(0, length - suffix.length)\r\n }\r\n return subSequence(0, length)\r\n}\r\n\r\n/**\r\n * If this string ends with the given [suffix], returns a copy of this string\r\n * with the suffix removed. Otherwise, returns this string.\r\n */\r\npublic fun String.removeSuffix(suffix: CharSequence): String {\r\n if (endsWith(suffix)) {\r\n return substring(0, length - suffix.length)\r\n }\r\n return this\r\n}\r\n\r\n/**\r\n * When this char sequence starts with the given [prefix] and ends with the given [suffix],\r\n * returns a new char sequence having both the given [prefix] and [suffix] removed.\r\n * Otherwise returns a new char sequence with the same characters.\r\n */\r\npublic fun CharSequence.removeSurrounding(prefix: CharSequence, suffix: CharSequence): CharSequence {\r\n if ((length >= prefix.length + suffix.length) && startsWith(prefix) && endsWith(suffix)) {\r\n return subSequence(prefix.length, length - suffix.length)\r\n }\r\n return subSequence(0, length)\r\n}\r\n\r\n/**\r\n * Removes from a string both the given [prefix] and [suffix] if and only if\r\n * it starts with the [prefix] and ends with the [suffix].\r\n * Otherwise returns this string unchanged.\r\n */\r\npublic fun String.removeSurrounding(prefix: CharSequence, suffix: CharSequence): String {\r\n if ((length >= prefix.length + suffix.length) && startsWith(prefix) && endsWith(suffix)) {\r\n return substring(prefix.length, length - suffix.length)\r\n }\r\n return this\r\n}\r\n\r\n/**\r\n * When this char sequence starts with and ends with the given [delimiter],\r\n * returns a new char sequence having this [delimiter] removed both from the start and end.\r\n * Otherwise returns a new char sequence with the same characters.\r\n */\r\npublic fun CharSequence.removeSurrounding(delimiter: CharSequence): CharSequence = removeSurrounding(delimiter, delimiter)\r\n\r\n/**\r\n * Removes the given [delimiter] string from both the start and the end of this string\r\n * if and only if it starts with and ends with the [delimiter].\r\n * Otherwise returns this string unchanged.\r\n */\r\npublic fun String.removeSurrounding(delimiter: CharSequence): String = removeSurrounding(delimiter, delimiter)\r\n\r\n/**\r\n * Replace part of string before the first occurrence of given delimiter with the [replacement] string.\r\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\r\n */\r\npublic fun String.replaceBefore(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\r\n val index = indexOf(delimiter)\r\n return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)\r\n}\r\n\r\n/**\r\n * Replace part of string before the first occurrence of given delimiter with the [replacement] string.\r\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\r\n */\r\npublic fun String.replaceBefore(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {\r\n val index = indexOf(delimiter)\r\n return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)\r\n}\r\n\r\n/**\r\n * Replace part of string after the first occurrence of given delimiter with the [replacement] string.\r\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\r\n */\r\npublic fun String.replaceAfter(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\r\n val index = indexOf(delimiter)\r\n return if (index == -1) missingDelimiterValue else replaceRange(index + 1, length, replacement)\r\n}\r\n\r\n/**\r\n * Replace part of string after the first occurrence of given delimiter with the [replacement] string.\r\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\r\n */\r\npublic fun String.replaceAfter(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {\r\n val index = indexOf(delimiter)\r\n return if (index == -1) missingDelimiterValue else replaceRange(index + delimiter.length, length, replacement)\r\n}\r\n\r\n/**\r\n * Replace part of string after the last occurrence of given

delimiter with the [replacement] string.\r\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\r\n */\r\npublic fun String.replaceAfterLast(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {\r\n val index = lastIndexOf(delimiter)\r\n return if (index == -1) missingDelimiterValue else replaceRange(index + delimiter.length, length, replacement)\r\n}\r\n\r\n/**\r\n * Replace part of string after the last occurrence of given delimiter with the [replacement] string.\r\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\r\n */\r\npublic fun String.replaceAfterLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\r\n val index = lastIndexOf(delimiter)\r\n return if (index == -1) missingDelimiterValue else replaceRange(index + 1, length, replacement)\r\n}\r\n\r\n/**\r\n * Replace part of string before the last occurrence of given delimiter with the [replacement] string.\r\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\r\n */\r\npublic fun String.replaceBeforeLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\r\n val index = lastIndexOf(delimiter)\r\n return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)\r\n}\r\n\r\n/**\r\n * Replace part of string before the last occurrence of given delimiter with the [replacement] string.\r\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\r\n */\r\npublic fun String.replaceBeforeLast(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {\r\n val index = lastIndexOf(delimiter)\r\n return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)\r\n}\r\n\r\n\r\n// public fun String.replace(oldChar: Char, newChar: Char, ignoreCase: Boolean): String // JVM- and JS-specific\r\n// public fun String.replace(oldValue: String, newValue: String, ignoreCase: Boolean): String // JVM- and JS-specific\r\n\r\n/**\r\n * Returns a new string obtained by replacing each substring of this char sequence that matches the given regular expression\r\n * with the given [replacement].\r\n *\r\n * The [replacement] can consist of any combination of literal text and $-substitutions. To treat the replacement string\r\n * literally escape it with the [kotlin.text.Regex.Companion.escapeReplacement] method.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun CharSequence.replace(regex: Regex, replacement: String): String = regex.replace(this, replacement)\r\n\r\n/**\r\n * Returns a new string obtained by replacing each substring of this char sequence that matches the given regular expression\r\n * with the result of the given function [transform] that takes [MatchResult] and returns a string to be used as a\r\n * replacement for that match.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun CharSequence.replace(regex: Regex, noinline transform: (MatchResult) -> CharSequence): String =\r\n regex.replace(this, transform)\r\n\r\n/**\r\n * Replaces the first occurrence of the given regular expression [regex] in this char sequence with specified [replacement] expression.\r\n *\r\n * @param replacement A replacement expression that can include substitutions. See [Regex.replaceFirst] for details.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun CharSequence.replaceFirst(regex: Regex, replacement: String): String = regex.replaceFirst(this, replacement)\r\n\r\n\r\n/**\r\n * Returns `true` if this char sequence matches the given regular expression.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline infix fun CharSequence.matches(regex: Regex): Boolean = regex.matches(this)\r\n\r\n/**\r\n * Implementation of [regionMatches] for CharSequences.\r\n * Invoked when it's already known that arguments are not Strings, so that no additional type checks are performed.\r\n */\r\ninternal fun CharSequence.regionMatchesImpl(thisOffset: Int, other: CharSequence, otherOffset: Int, length: Int, ignoreCase: Boolean): Boolean {\r\n if ((otherOffset < 0) || (thisOffset < 0) || (thisOffset > this.length - length) || (otherOffset > other.length - length)) {\r\n return false\r\n }\r\n\r\n for (index in 0 until length) {\r\n if (!this[thisOffset + index].equals(other[otherOffset + index], ignoreCase))\r\n return false\r\n }\r\n return true\r\n}\r\n\r\n/**\r\n * Returns `true` if this char sequence starts with the specified character.\r\n */\r\npublic fun CharSequence.startsWith(char: Char, ignoreCase: Boolean = false): Boolean =\r\n this.length > 0 && this[0].equals(char, ignoreCase)\r\n\r\n/**\r\n * Returns `true` if this char sequence ends with the specified character.\r\n */\r\npublic fun CharSequence.endsWith(char: Char, ignoreCase: Boolean = false): Boolean =\r\n this.length > 0 && this[lastIndex].equals(char, ignoreCase)\r\n\r\n/**\r\n * Returns `true` if this char sequence starts with the specified prefix.\r\n */\r\npublic fun CharSequence.startsWith(prefix: CharSequence, ignoreCase: Boolean = false): Boolean {\r\n if (!ignoreCase &&

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this is String && prefix is String)\r\n        return this.startsWith(prefix)\r\n    else\r\n        return regionMatchesImpl(0, prefix, 0, prefix.length, ignoreCase)\r\n}\r\n\r\n/**\r\n * Returns `true` if a substring of this char sequence starting at the specified offset [startIndex] starts with the specified prefix.\r\n */\r\npublic fun CharSequence.startsWith(prefix: CharSequence, startIndex: Int, ignoreCase: Boolean = false): Boolean {\r\n    if (!ignoreCase && this is String && prefix is String)\r\n        return this.startsWith(prefix, startIndex)\r\n    else\r\n        return regionMatchesImpl(startIndex, prefix, 0, prefix.length, ignoreCase)\r\n}\r\n\r\n/**\r\n * Returns `true` if this char sequence ends with the specified suffix.\r\n */\r\npublic fun CharSequence.endsWith(suffix: CharSequence, ignoreCase: Boolean = false): Boolean {\r\n    if (!ignoreCase && this is String && suffix is String)\r\n        return this.endsWith(suffix)\r\n    else\r\n        return regionMatchesImpl(length - suffix.length, suffix, 0, suffix.length, ignoreCase)\r\n}\r\n\r\n\r\n// common prefix and suffix\r\n\r\n/**\r\n * Returns the longest string `prefix` such that this char sequence and [other] char sequence both start with this prefix,\r\n * taking care not to split surrogate pairs.\r\n * If this and [other] have no common prefix, returns the empty string.\r\n\r\n * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\r\n * @sample samples.text.Strings.commonPrefixWith\r\n */\r\npublic fun CharSequence.commonPrefixWith(other: CharSequence, ignoreCase: Boolean = false): String {\r\n    val shortestLength = minOf(this.length, other.length)\r\n\r\n    var i = 0\r\n    while (i < shortestLength && this[i].equals(other[i], ignoreCase = ignoreCase)) {\r\n        i++\r\n    }\r\n    if (this.hasSurrogatePairAt(i - 1) || other.hasSurrogatePairAt(i - 1)) {\r\n        i--\r\n    }\r\n    return subSequence(0, i).toString()\r\n}\r\n\r\n/**\r\n * Returns the longest string `suffix` such that this char sequence and [other] char sequence both end with this suffix,\r\n * taking care not to split surrogate pairs.\r\n * If this and [other] have no common suffix, returns the empty string.\r\n\r\n * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\r\n * @sample samples.text.Strings.commonSuffixWith\r\n */\r\npublic fun CharSequence.commonSuffixWith(other: CharSequence, ignoreCase: Boolean = false): String {\r\n    val thisLength = this.length\r\n    val otherLength = other.length\r\n    val shortestLength = minOf(thisLength, otherLength)\r\n\r\n    var i = 0\r\n    while (i < shortestLength && this[thisLength - i - 1].equals(other[otherLength - i - 1], ignoreCase = ignoreCase)) {\r\n        i++\r\n    }\r\n    if (this.hasSurrogatePairAt(thisLength - i - 1) || other.hasSurrogatePairAt(otherLength - i - 1)) {\r\n        i--\r\n    }\r\n    return subSequence(thisLength - i, thisLength).toString()\r\n}\r\n\r\n\r\n\r\n// indexOfAny()\r\n\r\n/**\r\n * Finds the index of the first occurrence of any of the specified [chars] in this char sequence,\r\n * starting from the specified [startIndex] and optionally ignoring the case.\r\n *\r\n * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\r\n * @return An index of the first occurrence of matched character from [chars] or -1 if none of [chars] are found.\r\n *\r\n */\r\npublic fun CharSequence.indexOfAny(chars: CharArray, startIndex: Int = 0, ignoreCase: Boolean = false): Int {\r\n    if (!ignoreCase && chars.size == 1 && this is String) {\r\n        val char = chars.single()\r\n        return nativeIndexOf(char, startIndex)\r\n    }\r\n\r\n    for (index in startIndex.coerceAtLeast(0)..lastIndex) {\r\n        val charAtIndex = get(index)\r\n        if (chars.any { it.equals(charAtIndex, ignoreCase) })\r\n            return index\r\n    }\r\n    return -1\r\n}\r\n\r\n\r\n/**\r\n * Finds the index of the last occurrence of any of the specified [chars] in this char sequence,\r\n * starting from the specified [startIndex] and optionally ignoring the case.\r\n *\r\n * @param startIndex The index of character to start searching at. The search proceeds backward toward the beginning of the string.\r\n * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\r\n * @return An index of the last occurrence of matched character from [chars] or -1 if none of [chars] are found.\r\n *\r\n */\r\npublic fun CharSequence.lastIndexOfAny(chars: CharArray, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {\r\n    if (!ignoreCase && chars.size == 1 && this is String) {\r\n        val char = chars.single()\r\n        return nativeLastIndexOf(char, startIndex)\r\n    }\r\n\r\n\r\n    for (index in startIndex.coerceAtMost(lastIndex) downTo 0) {\r\n        val charAtIndex = get(index)\r\n        if (chars.any { it.equals(charAtIndex, ignoreCase) })\r\n            return index\r\n    }\r\n\r\n    return -1\r\n}\r\n\r\n\r\n\r\nprivate fun CharSequence.indexOf(other: CharSequence, startIndex: Int, endIndex: Int, ignoreCase: Boolean, last: Boolean = false): Int {\r\n    val indices = if (!last)\r\n        startIndex.coerceAtLeast(0)..endIndex.coerceAtMost(length)\r\n    else\r\n        startIndex.coerceAtMost(lastIndex) downTo endIndex.coerceAtLeast(0)\r\n\r\n    if (this is String &&
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other is String) { // smart cast\r\n for (index in indices) {\r\n if (other.regionMatches(0, this, index, other.length, ignoreCase))\r\n return index\r\n }\r\n } else {\r\n for (index in indices) {\r\n if (other.regionMatchesImpl(0, this, index, other.length, ignoreCase))\r\n return index\r\n }\r\n }\r\n return -1\r\n}\r\n\r\nprivate fun CharSequence.findAnyOf(strings: Collection<String>, startIndex: Int, ignoreCase: Boolean, last: Boolean): Pair<Int, String>? {\r\n if (!ignoreCase && strings.size == 1) {\r\n val string = strings.single()\r\n val index = if (!last) indexOf(string, startIndex) else lastIndexOf(string, startIndex)\r\n return if (index < 0) null else index to string\r\n }\r\n\r\n val indices = if (!last) startIndex.coerceAtLeast(0)..length else startIndex.coerceAtMost(lastIndex) downTo 0\r\n\r\n if (this is String) {\r\n for (index in indices) {\r\n val matchingString = strings.firstOrNull { it.regionMatches(0, this, index, it.length, ignoreCase) }\r\n if (matchingString != null)\r\n return index to matchingString\r\n }\r\n } else {\r\n for (index in indices) {\r\n val matchingString = strings.firstOrNull { it.regionMatchesImpl(0, this, index, it.length, ignoreCase) }\r\n if (matchingString != null)\r\n return index to matchingString\r\n }\r\n }\r\n\r\n return null\r\n}\r\n\r\n/**\r\n * Finds the first occurrence of any of the specified [strings] in this char sequence,\r\n * starting from the specified [startIndex] and optionally ignoring the case.\r\n *\r\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\r\n * @return A pair of an index of the first occurrence of matched string from [strings] and the string matched\r\n * or `null` if none of [strings] are found.\r\n *\r\n * To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from\r\n * the beginning to the end of this string, and finds at each position the first element in [strings]\r\n * that matches this string at that position.\r\n */\r\npublic fun CharSequence.findAnyOf(strings: Collection<String>, startIndex: Int = 0, ignoreCase: Boolean = false): Pair<Int, String>? =\r\n findAnyOf(strings, startIndex, ignoreCase, last = false)\r\n\r\n/**\r\n * Finds the last occurrence of any of the specified [strings] in this char sequence,\r\n * starting from the specified [startIndex] and optionally ignoring the case.\r\n *\r\n * @param startIndex The index of character to start searching at. The search proceeds backward toward the beginning of the string.\r\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\r\n * @return A pair of an index of the last occurrence of matched string from [strings] and the string matched or `null` if none of [strings] are found.\r\n *\r\n * To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from\r\n * the end toward the beginning of this string, and finds at each position the first element in [strings]\r\n * that matches this string at that position.\r\n */\r\npublic fun CharSequence.findLastAnyOf(strings: Collection<String>, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Pair<Int, String>? =\r\n findAnyOf(strings, startIndex, ignoreCase, last = true)\r\n\r\n/**\r\n * Finds the index of the first occurrence of any of the specified [strings] in this char sequence,\r\n * starting from the specified [startIndex] and optionally ignoring the case.\r\n *\r\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\r\n * @return An index of the first occurrence of matched string from [strings] or -1 if none of [strings] are found.\r\n *\r\n * To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from\r\n * the beginning to the end of this string, and finds at each position the first element in [strings]\r\n * that matches this string at that position.\r\n */\r\npublic fun CharSequence.indexOfAny(strings: Collection<String>, startIndex: Int = 0, ignoreCase: Boolean = false): Int =\r\n findAnyOf(strings, startIndex, ignoreCase, last = false)?.first ?: -1\r\n\r\n/**\r\n * Finds the index of the last occurrence of any of the specified [strings] in this char sequence,\r\n * starting from the specified [startIndex] and optionally ignoring the case.\r\n *\r\n * @param startIndex The index of character to start searching at. The search proceeds backward toward the beginning of the string.\r\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\r\n * @return An index of the last occurrence of matched string from [strings] or -1 if none of [strings] are found.\r\n *\r\n * To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from\r\n * the end toward the beginning of this string, and finds at each position the first element in [strings]\r\n * that matches this string at that position.\r\n */\r\npublic fun CharSequence.lastIndexOfAny(strings: Collection<String>, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int =\r\n findAnyOf(strings, startIndex, ignoreCase, last = true)?.first ?: -1\r\n\r\n\r\n//\r\n// indexOf\r\n\r\n/**\r\n * Returns the index within this string of the first occurrence of the specified character, starting

from the specified [startIndex].\r\n *\r\n * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\r\n * @return An index of the first occurrence of [char] or -1 if none is found.\r\n */\r\npublic fun CharSequence.indexOf(char: Char, startIndex: Int = 0, ignoreCase: Boolean = false): Int {\r\n return if (ignoreCase || this !is String)\r\n indexOfAny(charArrayOf(char), startIndex, ignoreCase)\r\n else\r\n nativeIndexOf(char, startIndex)\r\n}\r\n\r\n/**\r\n * Returns the index within this char sequence of the first occurrence of the specified [string],\r\n * starting from the specified [startIndex].\r\n *\r\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\r\n * @return An index of the first occurrence of [string] or `-1` if none is found.\r\n */\r\npublic fun CharSequence.indexOf(string: String, startIndex: Int = 0, ignoreCase: Boolean = false): Int {\r\n return if (ignoreCase || this !is String)\r\n indexOf(string, startIndex, length, ignoreCase)\r\n else\r\n nativeIndexOf(string, startIndex)\r\n}\r\n\r\n/**\r\n * Returns the index within this char sequence of the last occurrence of the specified character,\r\n * starting from the specified [startIndex].\r\n *\r\n * @param startIndex The index of character to start searching at. The search proceeds backward toward the beginning of the string.\r\n * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\r\n * @return An index of the first occurrence of [char] or -1 if none is found.\r\n */\r\npublic fun CharSequence.lastIndexOf(char: Char, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {\r\n return if (ignoreCase || this !is String)\r\n lastIndexOfAny(charArrayOf(char), startIndex, ignoreCase)\r\n else\r\n nativeLastIndexOf(char, startIndex)\r\n}\r\n\r\n/**\r\n * Returns the index within this char sequence of the last occurrence of the specified [string],\r\n * starting from the specified [startIndex].\r\n *\r\n * @param startIndex The index of character to start searching at. The search proceeds backward toward the beginning of the string.\r\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\r\n * @return An index of the first occurrence of [string] or -1 if none is found.\r\n */\r\npublic fun CharSequence.lastIndexOf(string: String, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {\r\n return if (ignoreCase || this !is String)\r\n indexOf(string, startIndex, 0, ignoreCase, last = true)\r\n else\r\n nativeLastIndexOf(string, startIndex)\r\n}\r\n\r\n/**\r\n * Returns `true` if this char sequence contains the specified [other] sequence of characters as a substring.\r\n *\r\n * @param ignoreCase `true` to ignore character case when comparing strings. By default `false`.\r\n */\r\n@Suppress(\"INAPPLICABLE_OPERATOR_MODIFIER\")\r\npublic operator fun CharSequence.contains(other: CharSequence, ignoreCase: Boolean = false): Boolean =\r\n if (other is String)\r\n indexOf(other, ignoreCase = ignoreCase) >= 0\r\n else\r\n indexOf(other, 0, length, ignoreCase) >= 0\r\n\r\n\r\n\r\n/**\r\n * Returns `true` if this char sequence contains the specified character [char].\r\n *\r\n * @param ignoreCase `true` to ignore character case when comparing characters. By default `false`.\r\n */\r\n@Suppress(\"INAPPLICABLE_OPERATOR_MODIFIER\")\r\npublic operator fun CharSequence.contains(char: Char, ignoreCase: Boolean = false): Boolean =\r\n indexOf(char, ignoreCase = ignoreCase) >= 0\r\n\r\n/**\r\n * Returns `true` if this char sequence contains at least one match of the specified regular expression [regex].\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun CharSequence.contains(regex: Regex): Boolean = regex.containsMatchIn(this)\r\n\r\n\r\n// rangesDelimitedBy\r\n\r\n\r\nprivate class DelimitedRangesSequence(\r\n private val input: CharSequence,\r\n private val startIndex: Int,\r\n private val limit: Int,\r\n private val getNextMatch: CharSequence.(currentIndex: Int) -> Pair<Int, Int>?\r\n) : Sequence<IntRange> {\r\n\r\n override fun iterator(): Iterator<IntRange> = object : Iterator<IntRange> {\r\n var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue\r\n var currentStartIndex: Int = startIndex.coerceIn(0, input.length)\r\n var nextSearchIndex: Int = currentStartIndex\r\n var nextItem: IntRange? = null\r\n var counter: Int = 0\r\n\r\n private fun calcNext() {\r\n if (nextSearchIndex < 0) {\r\n nextState = 0\r\n nextItem = null\r\n } else {\r\n if (limit > 0 && ++counter >= limit || nextSearchIndex > input.length) {\r\n nextItem = currentStartIndex..input.lastIndex\r\n nextSearchIndex = -1\r\n } else {\r\n val match = input.getNextMatch(nextSearchIndex)\r\n if (match == null) {\r\n nextItem = currentStartIndex..input.lastIndex\r\n nextSearchIndex = -1\r\n } else {\r\n val (index, length) = match\r\n nextItem = currentStartIndex until index\r\n

currentStartIndex = index + length\r\n nextSearchIndex = currentStartIndex + if (length == 0) 1 else 0\r\n }\r\n }\r\n nextState = 1\r\n }\r\n }\r\n\r\n override fun next(): IntRange {\r\n if (nextState == -1)\r\n calcNext()\r\n if (nextState == 0)\r\n throw NoSuchElementException()\r\n val result = nextItem as IntRange\r\n // Clean next to avoid keeping reference on yielded instance\r\n nextItem = null\r\n nextState = -1\r\n return result\r\n }\r\n\r\n override fun hasNext(): Boolean {\r\n if (nextState == -1)\r\n calcNext()\r\n return nextState == 1\r\n }\r\n }\r\n}\r\n\r\n/**\r\n * Returns a sequence of index ranges of substrings in this char sequence around occurrences of the specified [delimiters].\r\n *\r\n * @param delimiters One or more characters to be used as delimiters.\r\n * @param startIndex The index to start searching delimiters from.\r\n * No range having its start value less than [startIndex] is returned.\r\n * [startIndex] is coerced to be non-negative and not greater than length of this string.\r\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\r\n * @param limit The maximum number of substrings to return. Zero by default means no limit is set.\r\n */\r\nprivate fun CharSequence.rangesDelimitedBy(delimiters: CharArray, startIndex: Int = 0, ignoreCase: Boolean = false, limit: Int = 0): Sequence<IntRange> {\r\n require(limit >= 0, { \"Limit must be non-negative, but was $limit.\" })\r\n\r\n return DelimitedRangesSequence(this, startIndex, limit, { currentIndex ->\r\n indexOfAny(delimiters, currentIndex, ignoreCase = ignoreCase).let { if (it < 0) null else it to 1 }\r\n })\r\n}\r\n\r\n\r\n/**\r\n * Returns a sequence of index ranges of substrings in this char sequence around occurrences of the specified [delimiters].\r\n *\r\n * @param delimiters One or more strings to be used as delimiters.\r\n * @param startIndex The index to start searching delimiters from.\r\n * No range having its start value less than [startIndex] is returned.\r\n * [startIndex] is coerced to be non-negative and not greater than length of this string.\r\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\r\n * @param limit The maximum number of substrings to return. Zero by default means no limit is set.\r\n *\r\n * To avoid ambiguous results when strings in [delimiters] have characters in common, this method proceeds from\r\n * the beginning to the end of this string, and finds at each position the first element in [delimiters]\r\n * that matches this string at that position.\r\n */\r\nprivate fun CharSequence.rangesDelimitedBy(delimiters: Array<out String>, startIndex: Int = 0, ignoreCase: Boolean = false, limit: Int = 0): Sequence<IntRange> {\r\n require(limit >= 0, { \"Limit must be non-negative, but was $limit.\" })\r\n val delimitersList = delimiters.asList()\r\n\r\n return DelimitedRangesSequence(this, startIndex, limit, { currentIndex -> findAnyOf(delimitersList, currentIndex, ignoreCase = ignoreCase, last = false)?.let { it.first to it.second.length } })\r\n\r\n}\r\n\r\n\r\n// split\r\n\r\n/**\r\n * Splits this char sequence to a sequence of strings around occurrences of the specified [delimiters].\r\n *\r\n * @param delimiters One or more strings to be used as delimiters.\r\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\r\n * @param limit The maximum number of substrings to return. Zero by default means no limit is set.\r\n *\r\n * To avoid ambiguous results when strings in [delimiters] have characters in common, this method proceeds from\r\n * the beginning to the end of this string, and finds at each position the first element in [delimiters]\r\n * that matches this string at that position.\r\n */\r\npublic fun CharSequence.splitToSequence(vararg delimiters: String, ignoreCase: Boolean = false, limit: Int = 0): Sequence<String> =\r\n rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).map { substring(it) }\r\n\r\n/**\r\n * Splits this char sequence to a list of strings around occurrences of the specified [delimiters].\r\n *\r\n * @param delimiters One or more strings to be used as delimiters.\r\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\r\n * @param limit The maximum number of substrings to return. Zero by default means no limit is set.\r\n *\r\n * To avoid ambiguous results when strings in [delimiters] have characters in common, this method proceeds from\r\n * the beginning to the end of this string, and matches at each position the first element in [delimiters]\r\n * that is equal to a delimiter in this instance at that position.\r\n */\r\npublic fun CharSequence.split(vararg delimiters: String, ignoreCase: Boolean = false, limit: Int = 0): List<String> {\r\n if (delimiters.size == 1) {\r\n val delimiter = delimiters[0]\r\n if (!delimiter.isEmpty()) {\r\n return split(delimiter, ignoreCase, limit)\r\n }\r\n }\r\n\r\n return rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).asIterable().map { substring(it) }\r\n}\r\n\r\n/**\r\n * Splits this char sequence to a sequence of strings around occurrences of the specified

[delimiters].\r\n *\r\n * @param delimiters One or more characters to be used as delimiters.\r\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\r\n * @param limit The maximum number of substrings to return.\r\n */\r\npublic fun CharSequence.splitToSequence(vararg delimiters: Char, ignoreCase: Boolean = false, limit: Int = 0): Sequence<String> =\r\n   rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).map { substring(it) }\r\n\r\n/**\r\n * Splits this char sequence to a list of strings around occurrences of the specified [delimiters].\r\n *\r\n * @param delimiters One or more characters to be used as delimiters.\r\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\r\n * @param limit The maximum number of substrings to return.\r\n */\r\npublic fun CharSequence.split(vararg delimiters: Char, ignoreCase: Boolean = false, limit: Int = 0): List<String> {\r\n   if (delimiters.size == 1) {\r\n   return split(delimiters[0].toString(), ignoreCase, limit)\r\n   }\r\n\r\n   return rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).asIterable().map { substring(it) }\r\n}\r\n\r\n/**\r\n * Splits this char sequence to a list of strings around occurrences of the specified [delimiter].\r\n * This is specialized version of split which receives single non-empty delimiter and offers better performance\r\n *\r\n * @param delimiter String used as delimiter\r\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\r\n * @param limit The maximum number of substrings to return.\r\n */\r\nprivate fun CharSequence.split(delimiter: String, ignoreCase: Boolean, limit: Int): List<String> {\r\n   require(limit >= 0, { \"Limit must be non-negative, but was $limit.\" })\r\n\r\n   var currentOffset = 0\r\n   var nextIndex = indexOf(delimiter, currentOffset, ignoreCase)\r\n   if (nextIndex == -1 || limit == 1) {\r\n   return listOf(this.toString())\r\n   }\r\n\r\n   val isLimited = limit > 0\r\n   val result = ArrayList<String>(if (isLimited) limit.coerceAtMost(10) else 10)\r\n   do {\r\n   result.add(substring(currentOffset, nextIndex))\r\n   currentOffset = nextIndex + delimiter.length\r\n   // Do not search for next occurrence if we're reaching limit\r\n   if (isLimited && result.size == limit - 1) break\r\n   nextIndex = indexOf(delimiter, currentOffset, ignoreCase)\r\n   } while (nextIndex != -1)\r\n\r\n   result.add(substring(currentOffset, length))\r\n   return result\r\n}\r\n\r\n/**\r\n * Splits this char sequence around matches of the given regular expression.\r\n *\r\n * @param limit Non-negative value specifying the maximum number of substrings to return.\r\n * Zero by default means no limit is set.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun CharSequence.split(regex: Regex, limit: Int = 0): List<String> = regex.split(this, limit)\r\n\r\n/**\r\n * Splits this char sequence to a sequence of lines delimited by any of the following character sequences: CRLF, LF or CR.\r\n *\r\n * The lines returned do not include terminating line separators.\r\n */\r\npublic fun CharSequence.lineSequence(): Sequence<String> = splitToSequence(\"\\r\\n\", \"\\n\", \"\\r\")\r\n\r\n/**\r\n * Splits this char sequence to a list of lines delimited by any of the following character sequences: CRLF, LF or CR.\r\n *\r\n * The lines returned do not include terminating line separators.\r\n */\r\npublic fun CharSequence.lines(): List<String> = lineSequence().toList()\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.text\r\n\r\nimport kotlin.js.RegExp\r\n\r\n/**\r\n * Converts the characters in the specified array to a string.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual fun String(chars: CharArray): String {\r\n   var result = \"\"\r\n   for (char in chars) {\r\n   result += char\r\n   }\r\n   return result\r\n}\r\n\r\n/**\r\n * Converts the characters from a portion of the specified array to a string.\r\n *\r\n * @throws IndexOutOfBoundsException if either [offset] or [length] are less than zero\r\n * or `offset + length` is out of [chars] array bounds.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual fun String(chars: CharArray, offset: Int, length: Int): String {\r\n   if (offset < 0 || length < 0 || chars.size - offset < length)\r\n   throw IndexOutOfBoundsException(\"size: ${chars.size}; offset: $offset; length: $length\")\r\n   var result = \"\"\r\n   for (index in offset until offset + length) {\r\n   result += chars[index]\r\n   }\r\n   return result\r\n}\r\n\r\n/**\r\n * Concatenates characters in this [CharArray] into a String.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic actual fun CharArray.concatToString(): String {\r\n   var result = \"\"\r\n   for (char in this) {\r\n   result += char\r\n   }\r\n   return result\r\n}\r\n\r\n/**\r\n * Concatenates characters in this [CharArray] or its subrange into a String.\r\n *\r\n * @param startIndex the beginning (inclusive) of the subrange of characters, 0 by default.\r\n * @param endIndex the end (exclusive) of the subrange of characters, size of this array by default.\r\n *\r\n * @throws

IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the size of this array.\r\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\n@ExperimentalStdlibApi\r\npublic actual fun CharArray.concatToString(startIndex: Int = 0, endIndex: Int = this.size): String {\r\n AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)\r\n var result = \"\"\r\n for (index in startIndex until endIndex) {\r\n result += this[index]\r\n }\r\n return result\r\n}\r\n\r\n/**\r\n * Returns a [CharArray] containing characters of this string.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic actual fun String.toCharArray(): CharArray {\r\n return CharArray(length) { get(it) }\r\n}\r\n\r\n/**\r\n * Returns a [CharArray] containing characters of this string or its substring.\r\n *\r\n * @param startIndex the beginning (inclusive) of the substring, 0 by default.\r\n * @param endIndex the end (exclusive) of the substring, length of this string by default.\r\n *\r\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length of this string.\r\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\n@ExperimentalStdlibApi\r\npublic actual fun String.toCharArray(startIndex: Int = 0, endIndex: Int = this.length): CharArray {\r\n AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\r\n return CharArray(endIndex - startIndex) { get(startIndex + it) }\r\n}\r\n\r\n/**\r\n * Decodes a string from the bytes in UTF-8 encoding in this array.\r\n *\r\n * Malformed byte sequences are replaced by the replacement char `\\uFFFD`.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic actual fun ByteArray.decodeToString(): String {\r\n return decodeUtf8(this, 0, size, false)\r\n}\r\n\r\n/**\r\n * Decodes a string from the bytes in UTF-8 encoding in this array or its subrange.\r\n *\r\n * @param startIndex the beginning (inclusive) of the subrange to decode, 0 by default.\r\n * @param endIndex the end (exclusive) of the subrange to decode, size of this array by default.\r\n * @param throwOnInvalidSequence specifies whether to throw an exception on malformed byte sequence or replace it by the replacement char `\\uFFFD`.\r\n *\r\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the size of this array.\r\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\r\n * @throws CharacterCodingException if the byte array contains malformed UTF-8 byte sequence and [throwOnInvalidSequence] is true.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\n@ExperimentalStdlibApi\r\npublic actual fun ByteArray.decodeToString(\r\n startIndex: Int = 0,\r\n endIndex: Int = this.size,\r\n throwOnInvalidSequence: Boolean = false\r\n): String {\r\n AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)\r\n return decodeUtf8(this, startIndex, endIndex, throwOnInvalidSequence)\r\n}\r\n\r\n/**\r\n * Encodes this string to an array of bytes in UTF-8 encoding.\r\n *\r\n * Any malformed char sequence is replaced by the replacement byte sequence.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic actual fun String.encodeToByteArray(): ByteArray {\r\n return encodeUtf8(this, 0, length, false)\r\n}\r\n\r\n/**\r\n * Encodes this string or its substring to an array of bytes in UTF-8 encoding.\r\n *\r\n * @param startIndex the beginning (inclusive) of the substring to encode, 0 by default.\r\n * @param endIndex the end (exclusive) of the substring to encode, length of this string by default.\r\n * @param throwOnInvalidSequence specifies whether to throw an exception on malformed char sequence or replace.\r\n *\r\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length of this string.\r\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\r\n * @throws CharacterCodingException if this string contains malformed char sequence and [throwOnInvalidSequence] is true.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\n@ExperimentalStdlibApi\r\npublic actual fun String.encodeToByteArray(\r\n startIndex: Int = 0,\r\n endIndex: Int = this.length,\r\n throwOnInvalidSequence: Boolean = false\r\n): ByteArray {\r\n AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\r\n return encodeUtf8(this, startIndex, endIndex, throwOnInvalidSequence)\r\n}\r\n\r\n/**\r\n * Returns a copy of this string converted to upper case using the rules of the default locale.\r\n *\r\n * @sample samples.text.Strings.toUpperCase\r\n

*/\r\n@kotlin.internal.InlineOnly\r\npublic actual inline fun String.toUpperCase(): String = asDynamic().toUpperCase()\r\n\r\n/**\r\n * Returns a copy of this string converted to lower case using the rules of the default locale.\r\n *\r\n * @sample samples.text.Strings.toLowerCase\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic actual inline fun String.toLowerCase(): String = asDynamic().toLowerCase()\r\n\r\n@kotlin.internal.InlineOnly\r\ninternal actual inline fun String.nativeIndexOf(str: String, fromIndex: Int): Int = asDynamic().indexOf(str, fromIndex)\r\n\r\n@kotlin.internal.InlineOnly\r\ninternal actual inline fun String.nativeLastIndexOf(str: String, fromIndex: Int): Int = asDynamic().lastIndexOf(str, fromIndex)\r\n\r\n@kotlin.internal.InlineOnly\r\ninternal inline fun String.nativeStartsWith(s: String, position: Int): Boolean = asDynamic().startsWith(s, position)\r\n\r\n@kotlin.internal.InlineOnly\r\ninternal inline fun String.nativeEndsWith(s: String): Boolean = asDynamic().endsWith(s)\r\n\r\n@kotlin.internal.InlineOnly\r\npublic actual inline fun String.substring(startIndex: Int): String = asDynamic().substring(startIndex)\r\n\r\n@kotlin.internal.InlineOnly\r\npublic actual inline fun String.substring(startIndex: Int, endIndex: Int): String = asDynamic().substring(startIndex, endIndex)\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun String.concat(str: String): String = asDynamic().concat(str)\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun String.match(regex: String): Array<String>? = asDynamic().match(regex)\r\n\r\n//native public fun String.trim(): String\r\n//TODO: String.replace to implement effective trimLeading and trimTrailing\r\n\r\n@kotlin.internal.InlineOnly\r\ninternal inline fun String.nativeReplace(pattern: RegExp, replacement: String): String = asDynamic().replace(pattern, replacement)\r\n\r\n@SinceKotlin(\"1.2\")\r\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\npublic actual fun String.compareTo(other: String, ignoreCase: Boolean = false): Int {\r\n if (ignoreCase) {\r\n val n1 = this.length\r\n val n2 = other.length\r\n val min = minOf(n1, n2)\r\n if (min == 0) return n1 - n2\r\n var start = 0\r\n while (true) {\r\n val end = minOf(start + 16, min)\r\n var s1 = this.substring(start, end)\r\n var s2 = other.substring(start, end)\r\n if (s1 != s2) {\r\n s1 = s1.toUpperCase()\r\n s2 = s2.toUpperCase()\r\n if (s1 != s2) {\r\n s1 = s1.toLowerCase()\r\n s2 = s2.toLowerCase()\r\n if (s1 != s2) {\r\n return s1.compareTo(s2)\r\n }\r\n }\r\n }\r\n if (end == min) break\r\n start = end\r\n }\r\n return n1 - n2\r\n } else {\r\n return compareTo(other)\r\n }\r\n}\r\n\r\n\r\nprivate val STRING_CASE_INSENSITIVE_ORDER = Comparator<String> { a, b -> a.compareTo(b, ignoreCase = true) }\r\n\r\n@SinceKotlin(\"1.2\")\r\npublic actual val String.Companion.CASE_INSENSITIVE_ORDER: Comparator<String>\r\n get() = STRING_CASE_INSENSITIVE_ORDER\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// Auto-generated file. DO NOT EDIT!\r\n\r\npackage kotlin\r\n\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic inline class UByteArray\r\n@Suppress(\"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS\")\r\n@PublishedApi\r\ninternal constructor(@PublishedApi internal val storage: ByteArray) : Collection<UByte> {\r\n\r\n /** Creates a new array of the specified [size], with all elements initialized to zero. */\r\n public constructor(size: Int) : this(ByteArray(size))\r\n\r\n /**\r\n * Returns the array element at the given [index]. This method can be called using the index operator.\r\n *\r\n * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\r\n * where the behavior is unspecified.\r\n */\r\n public operator fun get(index: Int): UByte = storage[index].toUByte()\r\n\r\n /**\r\n * Sets the element at the given [index] to the given [value]. This method can be called using the index operator.\r\n *\r\n * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\r\n * where the behavior is unspecified.\r\n */\r\n public operator fun set(index: Int, value: UByte) {\r\n storage[index] = value.toByte()\r\n }\r\n\r\n /** Returns the number of elements in the array. */\r\n public override val size: Int get() = storage.size\r\n\r\n /** Creates an iterator over the elements of the array. */\r\n public override operator fun iterator(): UByteIterator = Iterator(storage)\r\n\r\n private class Iterator(private val array: ByteArray) : UByteIterator() {\r\n private var index = 0\r\n override fun hasNext() = index < array.size\r\n override fun nextUByte() = if (index < array.size) array[index++].toUByte() else throw

NoSuchElementException(index.toString())\r\n   }\r\n\r\n   override fun contains(element: UByte): Boolean {\r\n   // TODO: Eliminate this check after KT-30016 gets fixed.\r\n   // Currently JS BE does not generate special bridge method for this method.\r\n   if ((element as Any?) !is UByte) return false\r\n\r\n   return storage.contains(element.toByte())\r\n   }\r\n\r\n   override fun containsAll(elements: Collection<UByte>): Boolean {\r\n   return (elements as Collection<*>).all { it is UByte && storage.contains(it.toByte()) }\r\n   }\r\n\r\n   override fun isEmpty(): Boolean = this.storage.size == 0\r\n}\r\n\r\n/**\r\n * Creates a new array of the specified [size], where each element is calculated by calling the specified\r\n * [init] function.\r\n *\r\n * The function [init] is called for each array element sequentially starting from the first one.\r\n * It should return the value for an array element given its index.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UByteArray(size: Int, init: (Int) -> UByte): UByteArray {\r\n   return UByteArray(ByteArray(size) { index -> init(index).toByte()\r\n})\r\n}\r\n\r\n\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ubyteArrayOf(vararg elements: UByte): UByteArray = elements\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\n// Auto-generated file. DO NOT EDIT!\r\n\r\npackage kotlin\r\n\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic inline class UIntArray\r\n@Suppress(\"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS\")\r\n@PublishedApi\r\ninternal constructor(@PublishedApi internal val storage: IntArray) : Collection<UInt> {\r\n\r\n   /** Creates a new array of the specified [size], with all elements initialized to zero. */\r\n   public constructor(size: Int) : this(IntArray(size))\r\n\r\n   /**\r\n   * Returns the array element at the given [index]. This method can be called using the index operator.\r\n   *\r\n   * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\r\n   * where the behavior is unspecified.\r\n   */\r\n   public operator fun get(index: Int): UInt = storage[index].toUInt()\r\n\r\n   /**\r\n   * Sets the element at the given [index] to the given [value]. This method can be called using the index operator.\r\n   *\r\n   * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\r\n   * where the behavior is unspecified.\r\n   */\r\n   public operator fun set(index: Int, value: UInt) {\r\n   storage[index] = value.toInt()\r\n   }\r\n\r\n   /** Returns the number of elements in the array. */\r\n   public override val size: Int get() = storage.size\r\n\r\n   /** Creates an iterator over the elements of the array. */\r\n   public override operator fun iterator(): UIntIterator = Iterator(storage)\r\n\r\n   private class Iterator(private val array: IntArray) : UIntIterator() {\r\n   private var index = 0\r\n   override fun hasNext() = index < array.size\r\n   override fun nextUInt() = if (index < array.size) array[index++].toUInt() else throw NoSuchElementException(index.toString())\r\n   }\r\n\r\n   override fun contains(element: UInt): Boolean {\r\n   // TODO: Eliminate this check after KT-30016 gets fixed.\r\n   // Currently JS BE does not generate special bridge method for this method.\r\n   if ((element as Any?) !is UInt) return false\r\n\r\n   return storage.contains(element.toInt())\r\n   }\r\n\r\n   override fun containsAll(elements: Collection<UInt>): Boolean {\r\n   return (elements as Collection<*>).all { it is UInt && storage.contains(it.toInt()) }\r\n   }\r\n\r\n   override fun isEmpty(): Boolean = this.storage.size == 0\r\n}\r\n\r\n/**\r\n * Creates a new array of the specified [size], where each element is calculated by calling the specified\r\n * [init] function.\r\n *\r\n * The function [init] is called for each array element sequentially starting from the first one.\r\n * It should return the value for an array element given its index.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UIntArray(size: Int, init: (Int) -> UInt): UIntArray {\r\n   return UIntArray(IntArray(size) { index -> init(index).toInt()\r\n})\r\n}\r\n\r\n\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun uintArrayOf(vararg elements: UInt): UIntArray = elements\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\n// Auto-generated file. DO NOT EDIT!\r\n\r\npackage kotlin\r\n\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic inline class

ULongArray\r\n@Suppress(\"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS\")\r\n@PublishedApi\r\ninternal constructor(@PublishedApi internal val storage: LongArray) : Collection<ULong> {\r\n\r\n   /** Creates a new array of the specified [size], with all elements initialized to zero. */\r\n   public constructor(size: Int) : this(LongArray(size))\r\n\r\n   /**\r\n   * Returns the array element at the given [index]. This method can be called using the index operator.\r\n   *\r\n   * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\r\n   * where the behavior is unspecified.\r\n   */\r\n   public operator fun get(index: Int): ULong = storage[index].toULong()\r\n\r\n   /**\r\n   * Sets the element at the given [index] to the given [value]. This method can be called using the index operator.\r\n   *\r\n   * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\r\n   * where the behavior is unspecified.\r\n   */\r\n   public operator fun set(index: Int, value: ULong) {\r\n   storage[index] = value.toLong()\r\n   }\r\n\r\n   /** Returns the number of elements in the array. */\r\n   public override val size: Int get() = storage.size\r\n\r\n   /** Creates an iterator over the elements of the array. */\r\n   public override operator fun iterator(): ULongIterator = Iterator(storage)\r\n\r\n   private class Iterator(private val array: LongArray) : ULongIterator() {\r\n   private var index = 0\r\n   override fun hasNext() = index < array.size\r\n   override fun nextULong() = if (index < array.size) array[index++].toULong() else throw NoSuchElementException(index.toString())\r\n   }\r\n\r\n   override fun contains(element: ULong): Boolean {\r\n   // TODO: Eliminate this check after KT-30016 gets fixed.\r\n   // Currently JS BE does not generate special bridge method for this method.\r\n   if ((element as Any?) !is ULong) return false\r\n\r\n   return storage.contains(element.toLong())\r\n   }\r\n\r\n   override fun containsAll(elements: Collection<ULong>): Boolean {\r\n   return (elements as Collection<*>).all { it is ULong && storage.contains(it.toLong()) }\r\n   }\r\n\r\n   override fun isEmpty(): Boolean = this.storage.size == 0\r\n}\r\n\r\n/**\r\n * Creates a new array of the specified [size], where each element is calculated by calling the specified\r\n * [init] function.\r\n *\r\n * The function [init] is called for each array element sequentially starting from the first one.\r\n * It should return the value for an array element given its index.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ULongArray(size: Int, init: (Int) -> ULong): ULongArray {\r\n   return ULongArray(LongArray(size) { index -> init(index).toLong() })\r\n}\r\n\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ulongArrayOf(vararg elements: ULong): ULongArray = elements\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// Auto-generated file. DO NOT EDIT!\r\n\r\npackage kotlin\r\n\r\nimport kotlin.experimental.*\r\n\r\n@Suppress(\"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS\")\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic inline class ULong @PublishedApi internal constructor(@PublishedApi internal val data: Long) : Comparable<ULong> {\r\n\r\n   companion object {\r\n   /**\r\n   * A constant holding the minimum value an instance of ULong can have.\r\n   */\r\n   public const val MIN_VALUE: ULong = ULong(0)\r\n\r\n   /**\r\n   * A constant holding the maximum value an instance of ULong can have.\r\n   */\r\n   public const val MAX_VALUE: ULong = ULong(-1)\r\n\r\n   /**\r\n   * The number of bytes used to represent an instance of ULong in a binary form.\r\n   */\r\n   public const val SIZE_BYTES: Int = 8\r\n\r\n   /**\r\n   * The number of bits used to represent an instance of ULong in a binary form.\r\n   */\r\n   public const val SIZE_BITS: Int = 64\r\n   }\r\n\r\n   /**\r\n   * Compares this value with the specified value for order.\r\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\r\n   * or a positive number if it's greater than other.\r\n   */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun compareTo(other: UByte): Int = this.compareTo(other.toULong())\r\n\r\n   /**\r\n   * Compares this value with the specified value for order.\r\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\r\n   * or a positive number if it's greater than other.\r\n   */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun compareTo(other: UShort): Int = this.compareTo(other.toULong())\r\n\r\n   /**\r\n   * Compares this value with

the specified value for order.\r\n * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\r\n * or a positive number if it's greater than other.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun compareTo(other: UInt): Int = this.compareTo(other.toULong())\r\n\r\n /**\r\n * Compares this value with the specified value for order.\r\n * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\r\n * or a positive number if it's greater than other.\r\n */\r\n @kotlin.internal.InlineOnly\r\n @Suppress(\"OVERRIDE_BY_INLINE\")\r\n public override inline operator fun compareTo(other: ULong): Int = ulongCompare(this.data, other.data)\r\n\r\n /** Adds the other value to this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun plus(other: UByte): ULong = this.plus(other.toULong())\r\n /** Adds the other value to this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun plus(other: UShort): ULong = this.plus(other.toULong())\r\n /** Adds the other value to this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun plus(other: UInt): ULong = this.plus(other.toULong())\r\n /** Adds the other value to this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun plus(other: ULong): ULong = ULong(this.data.plus(other.data))\r\n\r\n /** Subtracts the other value from this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun minus(other: UByte): ULong = this.minus(other.toULong())\r\n /** Subtracts the other value from this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun minus(other: UShort): ULong = this.minus(other.toULong())\r\n /** Subtracts the other value from this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun minus(other: UInt): ULong = this.minus(other.toULong())\r\n /** Subtracts the other value from this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun minus(other: ULong): ULong = ULong(this.data.minus(other.data))\r\n\r\n /** Multiplies this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun times(other: UByte): ULong = this.times(other.toULong())\r\n /** Multiplies this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun times(other: UShort): ULong = this.times(other.toULong())\r\n /** Multiplies this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun times(other: UInt): ULong = this.times(other.toULong())\r\n /** Multiplies this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun times(other: ULong): ULong = ULong(this.data.times(other.data))\r\n\r\n /** Divides this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun div(other: UByte): ULong = this.div(other.toULong())\r\n /** Divides this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun div(other: UShort): ULong = this.div(other.toULong())\r\n /** Divides this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun div(other: UInt): ULong = this.div(other.toULong())\r\n /** Divides this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun div(other: ULong): ULong = ulongDivide(this, other)\r\n\r\n /** Calculates the remainder of dividing this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun rem(other: UByte): ULong = this.rem(other.toULong())\r\n /** Calculates the remainder of dividing this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun rem(other: UShort): ULong = this.rem(other.toULong())\r\n /** Calculates the remainder of dividing this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun rem(other: UInt): ULong = this.rem(other.toULong())\r\n /** Calculates the remainder of dividing this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun rem(other: ULong): ULong = ulongRemainder(this, other)\r\n\r\n /** Increments this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun inc(): ULong = ULong(data.inc())\r\n /** Decrements this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun dec(): ULong = ULong(data.dec())\r\n\r\n /** Creates a range from this value to the specified [other] value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun rangeTo(other: ULong): ULongRange = ULongRange(this, other)\r\n\r\n /** Shifts this value left by the [bitCount] number of bits. */\r\n

@kotlin.internal.InlineOnly\r\n public inline infix fun shl(bitCount: Int): ULong = ULong(data shl bitCount)\r\n /** Shifts this value right by the [bitCount] number of bits, filling the leftmost bits with zeros. */\r\n @kotlin.internal.InlineOnly\r\n public inline infix fun shr(bitCount: Int): ULong = ULong(data ushr bitCount)\r\n /** Performs a bitwise AND operation between the two values. */\r\n @kotlin.internal.InlineOnly\r\n public inline infix fun and(other: ULong): ULong = ULong(this.data and other.data)\r\n /** Performs a bitwise OR operation between the two values. */\r\n @kotlin.internal.InlineOnly\r\n public inline infix fun or(other: ULong): ULong = ULong(this.data or other.data)\r\n /** Performs a bitwise XOR operation between the two values. */\r\n @kotlin.internal.InlineOnly\r\n public inline infix fun xor(other: ULong): ULong = ULong(this.data xor other.data)\r\n /** Inverts the bits in this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline fun inv(): ULong = ULong(data.inv())\r\n\r\n /**\r\n * Converts this [ULong] value to [Byte].\r\n *\r\n * If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\r\n * the same numerical value as this `ULong`.\r\n *\r\n * The resulting `Byte` value is represented by the least significant 8 bits of this `ULong` value.\r\n * Note that the resulting `Byte` value may be negative.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toByte(): Byte = data.toByte()\r\n /**\r\n * Converts this [ULong] value to [Short].\r\n *\r\n * If this value is less than or equals to [Short.MAX_VALUE], the resulting `Short` value represents\r\n * the same numerical value as this `ULong`.\r\n *\r\n * The resulting `Short` value is represented by the least significant 16 bits of this `ULong` value.\r\n * Note that the resulting `Short` value may be negative.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toShort(): Short = data.toShort()\r\n /**\r\n * Converts this [ULong] value to [Int].\r\n *\r\n * If this value is less than or equals to [Int.MAX_VALUE], the resulting `Int` value represents\r\n * the same numerical value as this `ULong`.\r\n *\r\n * The resulting `Int` value is represented by the least significant 32 bits of this `ULong` value.\r\n * Note that the resulting `Int` value may be negative.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toInt(): Int = data.toInt()\r\n /**\r\n * Converts this [ULong] value to [Long].\r\n *\r\n * If this value is less than or equals to [Long.MAX_VALUE], the resulting `Long` value represents\r\n * the same numerical value as this `ULong`. Otherwise the result is negative.\r\n *\r\n * The resulting `Long` value has the same binary representation as this `ULong` value.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toLong(): Long = data\r\n\r\n /**\r\n * Converts this [ULong] value to [UByte].\r\n *\r\n * If this value is less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\r\n * the same numerical value as this `ULong`.\r\n *\r\n * The resulting `UByte` value is represented by the least significant 8 bits of this `ULong` value.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toUByte(): UByte = data.toUByte()\r\n /**\r\n * Converts this [ULong] value to [UShort].\r\n *\r\n * If this value is less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents\r\n * the same numerical value as this `ULong`.\r\n *\r\n * The resulting `UShort` value is represented by the least significant 16 bits of this `ULong` value.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toUShort(): UShort = data.toUShort()\r\n /**\r\n * Converts this [ULong] value to [UInt].\r\n *\r\n * If this value is less than or equals to [UInt.MAX_VALUE], the resulting `UInt` value represents\r\n * the same numerical value as this `ULong`.\r\n *\r\n * The resulting `UInt` value is represented by the least significant 32 bits of this `ULong` value.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toUInt(): UInt = data.toUInt()\r\n /** Returns this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toULong(): ULong = this\r\n\r\n /**\r\n * Converts this [ULong] value to [Float].\r\n *\r\n * The resulting value is the closest `Float` to this `ULong` value.\r\n * In case when this `ULong` value is exactly between two `Float`s,\r\n * the one with zero at least significant bit of mantissa is selected.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toFloat(): Float = this.toDouble().toFloat()\r\n /**\r\n * Converts this [ULong] value to [Double].\r\n *\r\n * The resulting value is the closest `Double` to this `ULong` value.\r\n * In case when this `ULong` value is exactly between two `Double`s,\r\n * the one with zero at least significant bit of mantissa is selected.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toDouble(): Double = ulongToDouble(data)\r\n\r\n public override fun toString(): String = ulongToString(data)\r\n\r\n}\r\n\r\n/**\r\n * Converts this [Byte] value to [ULong].\r\n *\r\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this

`Byte`.\r\n *\r\n * The least significant 8 bits of the resulting `ULong` value are the same as the bits of this `Byte` value,\r\n * whereas the most significant 56 bits are filled with the sign bit of this value.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Byte.toULong(): ULong = ULong(this.toLong())\r\n/**\r\n * Converts this [Short] value to [ULong].\r\n *\r\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Short`.\r\n *\r\n * The least significant 16 bits of the resulting `ULong` value are the same as the bits of this `Short` value,\r\n * whereas the most significant 48 bits are filled with the sign bit of this value.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Short.toULong(): ULong = ULong(this.toLong())\r\n/**\r\n * Converts this [Int] value to [ULong].\r\n *\r\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Int`.\r\n *\r\n * The least significant 32 bits of the resulting `ULong` value are the same as the bits of this `Int` value,\r\n * whereas the most significant 32 bits are filled with the sign bit of this value.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Int.toULong(): ULong = ULong(this.toLong())\r\n/**\r\n * Converts this [Long] value to [ULong].\r\n *\r\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Long`.\r\n *\r\n * The resulting `ULong` value has the same binary representation as this `Long` value.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Long.toULong(): ULong = ULong(this)\r\n\r\n/**\r\n * Converts this [Float] value to [ULong].\r\n *\r\n * The fractional part, if any, is rounded down.\r\n * Returns zero if this `Float` value is negative or `NaN`, [ULong.MAX_VALUE] if it's bigger than `ULong.MAX_VALUE`.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Float.toULong(): ULong = doubleToULong(this.toDouble())\r\n/**\r\n * Converts this [Double] value to [ULong].\r\n *\r\n * The fractional part, if any, is rounded down.\r\n * Returns zero if this `Double` value is negative or `NaN`, [ULong.MAX_VALUE] if it's bigger than `ULong.MAX_VALUE`.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Double.toULong(): ULong = doubleToULong(this)\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// Auto-generated file. DO NOT EDIT!\r\n\r\npackage kotlin\r\n\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic inline class UShortArray\r\n@Suppress(\"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS\")\r\n@PublishedApi\r\ninternal constructor(@PublishedApi internal val storage: ShortArray) : Collection<UShort> {\r\n\r\n   /** Creates a new array of the specified [size], with all elements initialized to zero. */\r\n   public constructor(size: Int) : this(ShortArray(size))\r\n\r\n   /**\r\n   * Returns the array element at the given [index]. This method can be called using the index operator.\r\n   *\r\n   * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\r\n   * where the behavior is unspecified.\r\n   */\r\n   public operator fun get(index: Int): UShort = storage[index].toUShort()\r\n\r\n   /**\r\n   * Sets the element at the given [index] to the given [value]. This method can be called using the index operator.\r\n   *\r\n   * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\r\n   * where the behavior is unspecified.\r\n   */\r\n   public operator fun set(index: Int, value: UShort) {\r\n   storage[index] = value.toShort()\r\n   }\r\n\r\n   /** Returns the number of elements in the array. */\r\n   public override val size: Int get() = storage.size\r\n\r\n   /** Creates an iterator over the elements of the array. */\r\n   public override operator fun iterator(): UShortIterator = Iterator(storage)\r\n\r\n   private class Iterator(private val array: ShortArray) : UShortIterator() {\r\n   private var index = 0\r\n   override fun hasNext() = index < array.size\r\n   override fun nextUShort() = if (index < array.size) array[index++].toUShort() else throw NoSuchElementException(index.toString())\r\n   }\r\n\r\n   override fun contains(element: UShort): Boolean {\r\n   // TODO: Eliminate this check after KT-30016 gets fixed.\r\n   // Currently JS BE does not generate special bridge method for this method.\r\n   if ((element as Any?) !is UShort) return false\r\n\r\n   return storage.contains(element.toShort())\r\n   }\r\n\r\n   override fun containsAll(elements: Collection<UShort>):

Boolean {\r\n   return (elements as Collection<*>).all { it is UShort && storage.contains(it.toShort()) }\r\n   }\r\n\r\n   override fun isEmpty(): Boolean = this.storage.size == 0\r\n}\r\n\r\n/**\r\n * Creates a new array of the specified [size], where each element is calculated by calling the specified\r\n * [init] function.\r\n *\r\n * The function [init] is called for each array element sequentially starting from the first one.\r\n * It should return the value for an array element given its index.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UShortArray(size: Int, init: (Int) -> UShort): UShortArray {\r\n   return UShortArray(ShortArray(size) { index -> init(index).toShort()
})\r\n}\r\n\r\n\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ushortArrayOf(vararg elements: UShort): UShortArray = elements\r\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"UArraysKt\")\n@file:kotlin.jvm.JvmPackageName(\"kotlin.collections.unsigned\")\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns 1st *element* from the collection.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component1(): UInt {\n   return get(0)\n}\n\n/**\n * Returns 1st *element* from the collection.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component1(): ULong {\n   return get(0)\n}\n\n/**\n * Returns 1st *element* from the collection.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component1(): UByte {\n   return get(0)\n}\n\n/**\n * Returns 1st *element* from the collection.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component1(): UShort {\n   return get(0)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component2(): UInt {\n   return get(1)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component2(): ULong {\n   return get(1)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component2(): UByte {\n   return get(1)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component2(): UShort {\n   return get(1)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component3(): UInt {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component3(): ULong {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component3(): UByte {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component3(): UShort {\n   return get(2)\n}\n\n/**\n * Returns 4th *element* from the collection.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component4(): UInt {\n   return get(3)\n}\n\n/**\n * Returns 4th *element* from the collection.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component4(): ULong {\n   return get(3)\n}\n\n/**\n * Returns 4th *element* from the collection.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component4(): UByte {\n   return get(3)\n}\n\n/**\n * Returns 4th *element* from the collection.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun

UShortArray.component4(): UShort {\n   return get(3)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component5(): UInt {\n   return get(4)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component5(): ULong {\n   return get(4)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component5(): UByte {\n   return get(4)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component5(): UShort {\n   return get(4)\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun UIntArray.elementAt(index: Int): UInt\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun ULongArray.elementAt(index: Int): ULong\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun UByteArray.elementAt(index: Int): UByte\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun UShortArray.elementAt(index: Int): UShort\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UInt): UInt {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> ULong): ULong {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UByte): UByte {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UShort): UShort {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.elementAtOrNull(index: Int): UInt? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.elementAtOrNull(index: Int): ULong? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.elementAtOrNull(index: Int): UByte? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.elementAtOrNull(index: Int): UShort? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.find(predicate: (UInt) -> Boolean): UInt? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.find(predicate: (ULong) -> Boolean): ULong? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.find(predicate: (UByte) -> Boolean): UByte? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.find(predicate: (UShort) -> Boolean): UShort? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.findLast(predicate: (UInt) -> Boolean): UInt? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.findLast(predicate: (ULong) -> Boolean): ULong? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.findLast(predicate: (UByte) -> Boolean): UByte? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.findLast(predicate: (UShort) -> Boolean): UShort? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.first(): UInt {\n   return storage.first().toUInt()\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.first(): ULong {\n   return storage.first().toULong()\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.first(): UByte {\n   return storage.first().toUByte()\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.first(): UShort {\n   return storage.first().toUShort()\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

UIntArray.first(predicate: (UInt) -> Boolean): UInt {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.first(predicate: (ULong) -> Boolean): ULong {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.first(predicate: (UByte) -> Boolean): UByte {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.first(predicate: (UShort) -> Boolean): UShort {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.firstOrNull(): UInt? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.firstOrNull(): ULong? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.firstOrNull(): UByte? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.firstOrNull(): UShort? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.firstOrNull(predicate: (UInt) -> Boolean): UInt? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.firstOrNull(predicate: (ULong) -> Boolean): ULong? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.firstOrNull(predicate: (UByte) -> Boolean): UByte? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.firstOrNull(predicate: (UShort) -> Boolean): UShort? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.getOrElse(index: Int, defaultValue: (Int) -> UInt): UInt {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.getOrElse(index: Int, defaultValue: (Int) -> ULong): ULong {\n   return if (index >= 0 && index <=

lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.getOrElse(index: Int, defaultValue: (Int) -> UByte): UByte {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.getOrElse(index: Int, defaultValue: (Int) -> UShort): UShort {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.getOrNull(index: Int): UInt? {\n   return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.getOrNull(index: Int): ULong? {\n   return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.getOrNull(index: Int): UByte? {\n   return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.getOrNull(index: Int): UShort? {\n   return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.indexOf(element: UInt): Int {\n   return storage.indexOf(element.toInt())\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.indexOf(element: ULong): Int {\n   return storage.indexOf(element.toLong())\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.indexOf(element: UByte): Int {\n   return storage.indexOf(element.toByte())\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.indexOf(element: UShort): Int {\n   return storage.indexOf(element.toShort())\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.indexOfFirst(predicate: (UInt) -> Boolean): Int {\n   return storage.indexOfFirst { predicate(it.toUInt()) }\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.indexOfFirst(predicate: (ULong) -> Boolean): Int {\n   return storage.indexOfFirst { predicate(it.toULong()) }\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.indexOfFirst(predicate: (UByte) -> Boolean): Int {\n   return storage.indexOfFirst { predicate(it.toUByte()) }\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.indexOfFirst(predicate: (UShort) -> Boolean): Int {\n   return storage.indexOfFirst { predicate(it.toUShort()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.indexOfLast(predicate: (UInt) -> Boolean): Int {\n   return storage.indexOfLast { predicate(it.toUInt()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.indexOfLast(predicate: (ULong) -> Boolean): Int {\n   return storage.indexOfLast { predicate(it.toULong()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.indexOfLast(predicate: (UByte) -> Boolean): Int {\n   return storage.indexOfLast { predicate(it.toUByte()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.indexOfLast(predicate: (UShort) -> Boolean): Int {\n   return storage.indexOfLast { predicate(it.toUShort()) }\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.last(): UInt {\n   return storage.last().toUInt()\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.last(): ULong {\n   return storage.last().toULong()\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.last(): UByte {\n   return storage.last().toUByte()\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.last(): UShort {\n   return storage.last().toUShort()\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.last(predicate: (UInt) -> Boolean): UInt {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.last(predicate: (ULong) -> Boolean): ULong {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.last(predicate: (UByte) -> Boolean): UByte {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.last(predicate: (UShort) -> Boolean): UShort {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.lastIndexOf(element: UInt): Int {\n   return storage.lastIndexOf(element.toInt())\n}\n\n/**\n * Returns

last index of [element], or -1 if the array does not contain element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.lastIndexOf(element: ULong): Int {\n   return storage.lastIndexOf(element.toLong())\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.lastIndexOf(element: UByte): Int {\n   return storage.lastIndexOf(element.toByte())\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.lastIndexOf(element: UShort): Int {\n   return storage.lastIndexOf(element.toShort())\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.lastOrNull(): UInt? {\n   return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.lastOrNull(): ULong? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.lastOrNull(): UByte? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.lastOrNull(): UShort? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.lastOrNull(predicate: (UInt) -> Boolean): UInt? {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.lastOrNull(predicate: (ULong) -> Boolean): ULong? {\n   for (index in this.indices.reversed()) {\n val element = this[index]\n   if (predicate(element)) return element\n   }\n   return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.lastOrNull(predicate: (UByte) -> Boolean): UByte? {\n   for (index in this.indices.reversed()) {\n val element = this[index]\n   if (predicate(element)) return element\n   }\n   return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.lastOrNull(predicate: (UShort) -> Boolean): UShort? {\n   for (index in this.indices.reversed()) {\n val element = this[index]\n   if (predicate(element)) return element\n   }\n   return null\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.random(): UInt {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.random(): ULong {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.random(): UByte {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.random(): UShort {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.random(random: Random): UInt

{\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.random(random: Random): ULong {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.random(random: Random): UByte {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.random(random: Random): UShort {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.single(): UInt {\n   return storage.single().toUInt()\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.single(): ULong {\n   return storage.single().toULong()\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.single(): UByte {\n   return storage.single().toUByte()\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.single(): UShort {\n   return storage.single().toUShort()\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.single(predicate: (UInt) -> Boolean): UInt {\n   var single: UInt? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n   single = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as UInt\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.single(predicate: (ULong) -> Boolean): ULong {\n   var single: ULong? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n   single = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as ULong\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.single(predicate: (UByte) -> Boolean): UByte {\n   var single: UByte? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n   single = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as UByte\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.single(predicate: (UShort) -> Boolean): UShort {\n var single: UShort? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n single = element\n found = true\n }\n }\n if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n @Suppress(\"UNCHECKED_CAST\")\n return single as UShort\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.singleOrNull(): UInt? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.singleOrNull(): ULong? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.singleOrNull(): UByte? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.singleOrNull(): UShort? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.singleOrNull(predicate: (UInt) -> Boolean): UInt? {\n var single: UInt? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.singleOrNull(predicate: (ULong) -> Boolean): ULong? {\n var single: ULong? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.singleOrNull(predicate: (UByte) -> Boolean): UByte? {\n var single: UByte? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.singleOrNull(predicate: (UShort) -> Boolean): UShort? {\n var single: UShort? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.drop(n: Int): List<UInt> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.drop(n: Int): List<ULong> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n

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*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.drop(n: Int): List<UByte> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.drop(n: Int): List<UShort> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.dropLast(n: Int): List<UInt> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.dropLast(n: Int): List<ULong> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.dropLast(n: Int): List<UByte> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.dropLast(n: Int): List<UShort> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.dropLastWhile(predicate: (UInt) -> Boolean): List<UInt> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n            return take(index + 1)\n        }\n    }\n    return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.dropLastWhile(predicate: (ULong) -> Boolean): List<ULong> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n            return take(index + 1)\n        }\n    }\n    return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.dropLastWhile(predicate: (UByte) -> Boolean): List<UByte> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n            return take(index + 1)\n        }\n    }\n    return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.dropLastWhile(predicate: (UShort) -> Boolean): List<UShort> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n            return take(index + 1)\n        }\n    }\n    return emptyList()\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given
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[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.dropWhile(predicate: (UInt) -> Boolean): List<UInt> {\n var yielding = false\n val list = ArrayList<UInt>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.dropWhile(predicate: (ULong) -> Boolean): List<ULong> {\n var yielding = false\n val list = ArrayList<ULong>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.dropWhile(predicate: (UByte) -> Boolean): List<UByte> {\n var yielding = false\n val list = ArrayList<UByte>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.dropWhile(predicate: (UShort) -> Boolean): List<UShort> {\n var yielding = false\n val list = ArrayList<UShort>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.filter(predicate: (UInt) -> Boolean): List<UInt> {\n return filterTo(ArrayList<UInt>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.filter(predicate: (ULong) -> Boolean): List<ULong> {\n return filterTo(ArrayList<ULong>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.filter(predicate: (UByte) -> Boolean): List<UByte> {\n return filterTo(ArrayList<UByte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.filter(predicate: (UShort) -> Boolean): List<UShort> {\n return filterTo(ArrayList<UShort>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.filterIndexed(predicate: (index: Int, UInt) -> Boolean): List<UInt> {\n return filterIndexedTo(ArrayList<UInt>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.filterIndexed(predicate: (index: Int, ULong) -> Boolean): List<ULong> {\n return filterIndexedTo(ArrayList<ULong>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.filterIndexed(predicate: (index: Int, UByte) -> Boolean): List<UByte> {\n   return filterIndexedTo(ArrayList<UByte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.filterIndexed(predicate: (index: Int, UShort) -> Boolean): List<UShort> {\n   return filterIndexedTo(ArrayList<UShort>(), predicate)\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UInt>> UIntArray.filterIndexedTo(destination: C, predicate: (index: Int, UInt) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in ULong>> ULongArray.filterIndexedTo(destination: C, predicate: (index: Int, ULong) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UByte>> UByteArray.filterIndexedTo(destination: C, predicate: (index: Int, UByte) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UShort>> UShortArray.filterIndexedTo(destination: C, predicate: (index: Int, UShort) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n   return destination\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.filterNot(predicate: (UInt) -> Boolean): List<UInt> {\n   return filterNotTo(ArrayList<UInt>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.filterNot(predicate: (ULong) -> Boolean): List<ULong> {\n   return filterNotTo(ArrayList<ULong>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.filterNot(predicate: (UByte) -> Boolean): List<UByte> {\n   return filterNotTo(ArrayList<UByte>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.filterNot(predicate: (UShort) -> Boolean): List<UShort> {\n   return filterNotTo(ArrayList<UShort>(), predicate)\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UInt>> UIntArray.filterNotTo(destination: C, predicate: (UInt) -> Boolean): C {\n   for

(element in this) if (!predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in ULong>> ULongArray.filterNotTo(destination: C, predicate: (ULong) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UByte>> UByteArray.filterNotTo(destination: C, predicate: (UByte) -> Boolean): C {\n   for (element in this) if (!predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UShort>> UShortArray.filterNotTo(destination: C, predicate: (UShort) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UInt>> UIntArray.filterTo(destination: C, predicate: (UInt) -> Boolean): C {\n   for (element in this) if (predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in ULong>> ULongArray.filterTo(destination: C, predicate: (ULong) -> Boolean): C {\n   for (element in this) if (predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UByte>> UByteArray.filterTo(destination: C, predicate: (UByte) -> Boolean): C {\n   for (element in this) if (predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UShort>> UShortArray.filterTo(destination: C, predicate: (UShort) -> Boolean): C {\n   for (element in this) if (predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.slice(indices: IntRange): List<UInt> {\n   if (indices.isEmpty()) return listOf()\n   return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.slice(indices: IntRange): List<ULong> {\n   if (indices.isEmpty()) return listOf()\n   return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.slice(indices: IntRange): List<UByte> {\n   if (indices.isEmpty()) return listOf()\n   return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.slice(indices: IntRange): List<UShort> {\n   if (indices.isEmpty()) return listOf()\n   return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.slice(indices: Iterable<Int>): List<UInt> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<UInt>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.slice(indices: Iterable<Int>): List<ULong> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list =

ArrayList<ULong>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.slice(indices: Iterable<Int>): List<UByte> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<UByte>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.slice(indices: Iterable<Int>): List<UShort> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<UShort>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sliceArray(indices: Collection<Int>): UIntArray {\n   return UIntArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sliceArray(indices: Collection<Int>): ULongArray {\n   return ULongArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sliceArray(indices: Collection<Int>): UByteArray {\n   return UByteArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sliceArray(indices: Collection<Int>): UShortArray {\n   return UShortArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sliceArray(indices: IntRange): UIntArray {\n   return UIntArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sliceArray(indices: IntRange): ULongArray {\n   return ULongArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sliceArray(indices: IntRange): UByteArray {\n   return UByteArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sliceArray(indices: IntRange): UShortArray {\n   return UShortArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.take(n: Int): List<UInt> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<UInt>(n)\n   for (item in this) {\n   if (count++ == n)\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.take(n: Int): List<ULong> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<ULong>(n)\n   for (item in this) {\n   if (count++ == n)\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.take(n: Int): List<UByte> {\n

require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<UByte>(n)\n   for (item in this) {\n   if (count++ == n)\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.take(n: Int): List<UShort> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<UShort>(n)\n   for (item in this) {\n   if (count++ == n)\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.takeLast(n: Int): List<UInt> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   val size = size\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[size - 1])\n   val list = ArrayList<UInt>(n)\n   for (index in size - n until size)\n   list.add(this[index])\n   return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.takeLast(n: Int): List<ULong> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   val size = size\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[size - 1])\n   val list = ArrayList<ULong>(n)\n   for (index in size - n until size)\n   list.add(this[index])\n   return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.takeLast(n: Int): List<UByte> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   val size = size\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[size - 1])\n   val list = ArrayList<UByte>(n)\n   for (index in size - n until size)\n   list.add(this[index])\n   return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.takeLast(n: Int): List<UShort> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   val size = size\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[size - 1])\n   val list = ArrayList<UShort>(n)\n   for (index in size - n until size)\n   list.add(this[index])\n   return list\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.takeLastWhile(predicate: (UInt) -> Boolean): List<UInt> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return drop(index + 1)\n   }\n   }\n   return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.takeLastWhile(predicate: (ULong) -> Boolean): List<ULong> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return drop(index + 1)\n   }\n   }\n   return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.takeLastWhile(predicate: (UByte) -> Boolean): List<UByte> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return drop(index + 1)\n   }\n   }\n   return toList()\n}\n\n/**\n *

Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.takeLastWhile(predicate: (UShort) -> Boolean): List<UShort> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.takeWhile(predicate: (UInt) -> Boolean): List<UInt> {\n val list = ArrayList<UInt>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.takeWhile(predicate: (ULong) -> Boolean): List<ULong> {\n val list = ArrayList<ULong>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.takeWhile(predicate: (UByte) -> Boolean): List<UByte> {\n val list = ArrayList<UByte>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.takeWhile(predicate: (UShort) -> Boolean): List<UShort> {\n val list = ArrayList<UShort>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Reverses elements in the array in-place.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reverse(): Unit {\n storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reverse(): Unit {\n storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reverse(): Unit {\n storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reverse(): Unit {\n storage.reverse()\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.reversed(): List<UInt> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.reversed(): List<ULong> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.reversed(): List<UByte> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.reversed(): List<UShort> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reversedArray(): UIntArray {\n return UIntArray(storage.reversedArray())\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

ULongArray.reversedArray(): ULongArray {\n   return ULongArray(storage.reversedArray())\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reversedArray(): UByteArray {\n   return UByteArray(storage.reversedArray())\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reversedArray(): UShortArray {\n   return UShortArray(storage.reversedArray())\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortDescending(): Unit {\n   if (size > 1) {\n   sort()\n   reverse()\n   }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortDescending(): Unit {\n   if (size > 1) {\n   sort()\n   reverse()\n   }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortDescending(): Unit {\n   if (size > 1) {\n   sort()\n   reverse()\n   }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortDescending(): Unit {\n   if (size > 1) {\n   sort()\n   reverse()\n   }\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sorted(): List<UInt> {\n   return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sorted(): List<ULong> {\n   return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sorted(): List<UByte> {\n   return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sorted(): List<UShort> {\n   return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortedArray(): UIntArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortedArray(): ULongArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortedArray(): UByteArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedArray(): UShortArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortedArrayDescending(): UIntArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortedArrayDescending(): ULongArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortedArrayDescending(): UByteArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedArrayDescending(): UShortArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortedDescending(): List<UInt> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortedDescending(): List<ULong> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortedDescending(): List<UByte> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedDescending(): List<UShort> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns an array of type [ByteArray], which is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.asByteArray(): ByteArray {\n   return storage\n}\n\n/**\n * Returns an array of type [IntArray], which is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.asIntArray(): IntArray {\n   return storage\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun UIntArray.asList(): List<UInt>\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun ULongArray.asList(): List<ULong>\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun UByteArray.asList(): List<UByte>\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun UShortArray.asList(): List<UShort>\n\n/**\n * Returns an array of type [LongArray], which is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.asLongArray(): LongArray {\n   return storage\n}\n\n/**\n * Returns an array of type [ShortArray], which is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.asShortArray(): ShortArray {\n   return storage\n}\n\n/**\n * Returns an array of type [UByteArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.asUByteArray(): UByteArray {\n   return UByteArray(this)\n}\n\n/**\n * Returns an array of type [UIntArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.asUIntArray(): UIntArray {\n   return UIntArray(this)\n}\n\n/**\n * Returns an array of type [ULongArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.asULongArray(): ULongArray {\n   return ULongArray(this)\n}\n\n/**\n * Returns an array of type

[UShortArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.asUShortArray(): UShortArray {\n   return UShortArray(this)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UIntArray.contentEquals(other: UIntArray): Boolean {\n   return storage.contentEquals(other.storage)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun ULongArray.contentEquals(other: ULongArray): Boolean {\n   return storage.contentEquals(other.storage)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UByteArray.contentEquals(other: UByteArray): Boolean {\n   return storage.contentEquals(other.storage)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UShortArray.contentEquals(other: UShortArray): Boolean {\n   return storage.contentEquals(other.storage)\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.contentHashCode(): Int {\n   return storage.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.contentHashCode(): Int {\n   return storage.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.contentHashCode(): Int {\n   return storage.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.contentHashCode(): Int {\n   return storage.contentHashCode()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.contentToString(): String {\n   return joinToString(\", \", \"[\", \"]\")\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.contentToString(): String {\n   return joinToString(\", \", \"[\", \"]\")\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.contentToString(): String {\n   return joinToString(\", \", \"[\", \"]\")\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.contentToString(): String {\n   return joinToString(\", \", \"[\", \"]\")\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.copyInto(destination: UIntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): UIntArray {\n   storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.copyInto(destination: ULongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ULongArray {\n   storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.copyInto(destination: UByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): UByteArray {\n   storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.copyInto(destination: UShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): UShortArray {\n   storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.copyOf(): UIntArray {\n   return UIntArray(storage.copyOf())\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.copyOf(): ULongArray {\n   return ULongArray(storage.copyOf())\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

UByteArray.copyOf(): UByteArray {\n   return UByteArray(storage.copyOf())\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.copyOf(): UShortArray {\n   return UShortArray(storage.copyOf())\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.copyOf(newSize: Int): UIntArray {\n   return UIntArray(storage.copyOf(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.copyOf(newSize: Int): ULongArray {\n   return ULongArray(storage.copyOf(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.copyOf(newSize: Int): UByteArray {\n   return UByteArray(storage.copyOf(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.copyOf(newSize: Int): UShortArray {\n   return UShortArray(storage.copyOf(newSize))\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.copyOfRange(fromIndex: Int, toIndex: Int): UIntArray {\n   return UIntArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.copyOfRange(fromIndex: Int, toIndex: Int): ULongArray {\n   return ULongArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.copyOfRange(fromIndex: Int, toIndex: Int): UByteArray {\n   return UByteArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.copyOfRange(fromIndex: Int, toIndex: Int): UShortArray {\n   return

UShortArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.fill(element: UInt, fromIndex: Int = 0, toIndex: Int = size): Unit {\n   storage.fill(element.toInt(), fromIndex, toIndex)\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.fill(element: ULong, fromIndex: Int = 0, toIndex: Int = size): Unit {\n   storage.fill(element.toLong(), fromIndex, toIndex)\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.fill(element: UByte, fromIndex: Int = 0, toIndex: Int = size): Unit {\n   storage.fill(element.toByte(), fromIndex, toIndex)\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.fill(element: UShort, fromIndex: Int = 0, toIndex: Int = size): Unit {\n   storage.fill(element.toShort(), fromIndex, toIndex)\n}\n\n/**\n * Returns the range of valid indices for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val UIntArray.indices: IntRange\n   get() = storage.indices\n\n/**\n * Returns the range of valid indices for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val ULongArray.indices: IntRange\n   get() = storage.indices\n\n/**\n * Returns the range of valid indices for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val UByteArray.indices: IntRange\n   get() = storage.indices\n\n/**\n * Returns the range of valid indices for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val UShortArray.indices: IntRange\n   get() = storage.indices\n\n/**\n * Returns the last valid index for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val UIntArray.lastIndex: Int\n   get() = storage.lastIndex\n\n/**\n * Returns the last valid index for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val ULongArray.lastIndex: Int\n   get() = storage.lastIndex\n\n/**\n * Returns the last valid index for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val UByteArray.lastIndex: Int\n   get() = storage.lastIndex\n\n/**\n * Returns the last valid index for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val UShortArray.lastIndex: Int\n   get() = storage.lastIndex\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.plus(element: UInt): UIntArray {\n   return UIntArray(storage + element.toInt())\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.plus(element: ULong): ULongArray {\n   return ULongArray(storage + element.toLong())\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given

[element].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.plus(element: UByte): UByteArray {\n   return UByteArray(storage + element.toByte())\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.plus(element: UShort): UShortArray {\n   return UShortArray(storage + element.toShort())\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun UIntArray.plus(elements: Collection<UInt>): UIntArray {\n   var index = size\n   val result = storage.copyOf(size + elements.size)\n   for (element in elements) result[index++] = element.toInt()\n   return UIntArray(result)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun ULongArray.plus(elements: Collection<ULong>): ULongArray {\n   var index = size\n   val result = storage.copyOf(size + elements.size)\n   for (element in elements) result[index++] = element.toLong()\n   return ULongArray(result)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun UByteArray.plus(elements: Collection<UByte>): UByteArray {\n   var index = size\n   val result = storage.copyOf(size + elements.size)\n   for (element in elements) result[index++] = element.toByte()\n   return UByteArray(result)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun UShortArray.plus(elements: Collection<UShort>): UShortArray {\n   var index = size\n   val result = storage.copyOf(size + elements.size)\n   for (element in elements) result[index++] = element.toShort()\n   return UShortArray(result)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.plus(elements: UIntArray): UIntArray {\n   return UIntArray(storage + elements.storage)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.plus(elements: ULongArray): ULongArray {\n   return ULongArray(storage + elements.storage)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.plus(elements: UByteArray): UByteArray {\n   return UByteArray(storage + elements.storage)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.plus(elements: UShortArray): UShortArray {\n   return UShortArray(storage + elements.storage)\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sort(): Unit {\n   if (size > 1) sortArray(this)\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sort(): Unit {\n   if (size > 1) sortArray(this)\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sort(): Unit {\n   if (size > 1) sortArray(this)\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sort(): Unit {\n   if (size > 1) sortArray(this)\n}\n\n/**\n * Returns an array of type [ByteArray], which is a copy of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

UByteArray.toByteArray(): ByteArray {\n   return storage.copyOf()\n}\n\n/**\n * Returns an array of type [IntArray], which is a copy of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.toIntArray(): IntArray {\n   return storage.copyOf()\n}\n\n/**\n * Returns an array of type [LongArray], which is a copy of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.toLongArray(): LongArray {\n   return storage.copyOf()\n}\n\n/**\n * Returns an array of type [ShortArray], which is a copy of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.toShortArray(): ShortArray {\n   return storage.copyOf()\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.toTypedArray(): Array<UInt> {\n   return Array(size) { index -> this[index] }\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.toTypedArray(): Array<ULong> {\n   return Array(size) { index -> this[index] }\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.toTypedArray(): Array<UByte> {\n   return Array(size) { index -> this[index] }\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.toTypedArray(): Array<UShort> {\n   return Array(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of UByte containing all of the elements of this generic array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Array<out UByte>.toUByteArray(): UByteArray {\n   return UByteArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type [UByteArray], which is a copy of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.toUByteArray(): UByteArray {\n   return UByteArray(this.copyOf())\n}\n\n/**\n * Returns an array of UInt containing all of the elements of this generic array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Array<out UInt>.toUIntArray(): UIntArray {\n   return UIntArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type [UIntArray], which is a copy of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.toUIntArray(): UIntArray {\n   return UIntArray(this.copyOf())\n}\n\n/**\n * Returns an array of ULong containing all of the elements of this generic array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Array<out ULong>.toULongArray(): ULongArray {\n   return ULongArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type [ULongArray], which is a copy of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.toULongArray(): ULongArray {\n   return ULongArray(this.copyOf())\n}\n\n/**\n * Returns an array of UShort containing all of the elements of this generic array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Array<out UShort>.toUShortArray(): UShortArray {\n   return UShortArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type [UShortArray], which is a copy of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

ShortArray.toUShortArray(): UShortArray {\n   return UShortArray(this.copyOf())\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.flatMap(transform: (UInt) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.flatMap(transform: (ULong) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.flatMap(transform: (UByte) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.flatMap(transform: (UShort) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UIntArray.flatMapTo(destination: C, transform: (UInt) -> Iterable<R>): C {\n   for (element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> ULongArray.flatMapTo(destination: C, transform: (ULong) -> Iterable<R>): C {\n   for (element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UByteArray.flatMapTo(destination: C, transform: (UByte) -> Iterable<R>): C {\n   for (element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UShortArray.flatMapTo(destination: C, transform: (UShort) -> Iterable<R>): C {\n   for (element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K> UIntArray.groupBy(keySelector: (UInt) -> K): Map<K, List<UInt>> {\n   return groupByTo(LinkedHashMap<K, MutableList<UInt>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K> ULongArray.groupBy(keySelector: (ULong) -> K): Map<K, List<ULong>> {\n   return

groupByTo(LinkedHashMap<K, MutableList<ULong>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K> UByteArray.groupBy(keySelector: (UByte) -> K): Map<K, List<UByte>> {\n   return groupByTo(LinkedHashMap<K, MutableList<UByte>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K> UShortArray.groupBy(keySelector: (UShort) -> K): Map<K, List<UShort>> {\n   return groupByTo(LinkedHashMap<K, MutableList<UShort>>(), keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> UIntArray.groupBy(keySelector: (UInt) -> K, valueTransform: (UInt) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> ULongArray.groupBy(keySelector: (ULong) -> K, valueTransform: (ULong) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> UByteArray.groupBy(keySelector: (UByte) -> K, valueTransform: (UByte) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> UShortArray.groupBy(keySelector: (UShort) -> K, valueTransform: (UShort) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The

[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M : MutableMap<in K, MutableList<UInt>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<UInt>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M : MutableMap<in K, MutableList<ULong>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<ULong>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M : MutableMap<in K, MutableList<UByte>>> UByteArray.groupByTo(destination: M, keySelector: (UByte) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<UByte>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M : MutableMap<in K, MutableList<UShort>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<UShort>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K, valueTransform: (UInt) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K, valueTransform: (ULong) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> UByteArray.groupByTo(destination: M, keySelector: (UByte) -> K,

valueTransform: (UByte) -> V): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<V>() }\n   list.add(valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K, valueTransform: (UShort) -> V): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<V>() }\n   list.add(valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.map(transform: (UInt) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.map(transform: (ULong) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.map(transform: (UByte) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.map(transform: (UShort) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.mapIndexed(transform: (index: Int, UInt) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.mapIndexed(transform: (index: Int, ULong) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.mapIndexed(transform: (index: Int, UByte) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.mapIndexed(transform: (index: Int, UShort) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param

[transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UIntArray.mapIndexedTo(destination: C, transform: (index: Int, UInt) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> ULongArray.mapIndexedTo(destination: C, transform: (index: Int, ULong) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UByteArray.mapIndexedTo(destination: C, transform: (index: Int, UByte) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UShortArray.mapIndexedTo(destination: C, transform: (index: Int, UShort) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UIntArray.mapTo(destination: C, transform: (UInt) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> ULongArray.mapTo(destination: C, transform: (ULong) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UByteArray.mapTo(destination: C, transform: (UByte) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UShortArray.mapTo(destination: C, transform: (UShort) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.withIndex(): Iterable<IndexedValue<UInt>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.withIndex(): Iterable<IndexedValue<ULong>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.withIndex():

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Iterable<IndexedValue<UByte>> {\n    return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.withIndex(): Iterable<IndexedValue<UShort>> {\n    return IndexingIterable { iterator() }\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.all(predicate: (UInt) -> Boolean): Boolean {\n    for (element in this) if (!predicate(element)) return false\n    return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.all(predicate: (ULong) -> Boolean): Boolean {\n    for (element in this) if (!predicate(element)) return false\n    return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.all(predicate: (UByte) -> Boolean): Boolean {\n    for (element in this) if (!predicate(element)) return false\n    return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.all(predicate: (UShort) -> Boolean): Boolean {\n    for (element in this) if (!predicate(element)) return false\n    return true\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.any(): Boolean {\n    return storage.any()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.any(): Boolean {\n    return storage.any()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.any(): Boolean {\n    return storage.any()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.any(): Boolean {\n    return storage.any()\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.any(predicate: (UInt) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return true\n    return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.any(predicate: (ULong) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return true\n    return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.any(predicate: (UByte) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return true\n    return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.any(predicate: (UShort) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return true\n    return false\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n
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*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.count(predicate: (UInt) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.count(predicate: (ULong) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.count(predicate: (UByte) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.count(predicate: (UShort) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.fold(initial: R, operation: (acc: R, UInt) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.fold(initial: R, operation: (acc: R, ULong) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.fold(initial: R, operation: (acc: R, UByte) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.fold(initial: R, operation: (acc: R, UShort) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to\n right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.foldIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to\n right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return

accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UShort) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.foldRight(initial: R, operation: (UInt, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.foldRight(initial: R, operation: (ULong, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.foldRight(initial: R, operation: (UByte, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.foldRight(initial: R, operation: (UShort, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.foldRightIndexed(initial: R, operation: (index: Int, UInt, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.foldRightIndexed(initial: R, operation: (index: Int, ULong, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.foldRightIndexed(initial: R, operation: (index: Int, UByte, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index),

accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.foldRightIndexed(initial: R, operation: (index: Int, UShort, acc: R) -> R): R {\n   var index = lastIndex\n   var accumulator = initial\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Performs the given [action] on each element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.forEach(action: (UInt) -> Unit): Unit {\n   for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.forEach(action: (ULong) -> Unit): Unit {\n   for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.forEach(action: (UByte) -> Unit): Unit {\n   for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.forEach(action: (UShort) -> Unit): Unit {\n   for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.forEachIndexed(action: (index: Int, UInt) -> Unit): Unit {\n   var index = 0\n   for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.forEachIndexed(action: (index: Int, ULong) -> Unit): Unit {\n   var index = 0\n   for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.forEachIndexed(action: (index: Int, UByte) -> Unit): Unit {\n   var index = 0\n   for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.forEachIndexed(action: (index: Int, UShort) -> Unit): Unit {\n   var index = 0\n   for (item in this) action(index++, item)\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.max(): UInt? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (max < e) max = e\n   }\n   return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.max(): ULong? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (max < e) max = e\n   }\n   return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.max(): UByte? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (max < e) max = e\n   }\n   return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n

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*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.max(): UShort? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UIntArray.maxBy(selector: (UInt) -> R): UInt? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ULongArray.maxBy(selector: (ULong) -> R): ULong? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UByteArray.maxBy(selector: (UByte) -> R): UByte? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UShortArray.maxBy(selector: (UShort) -> R): UShort? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.maxWith(comparator: Comparator<in UInt>): UInt? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.maxWith(comparator: Comparator<in ULong>): ULong? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.maxWith(comparator: Comparator<in UByte>): UByte? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.maxWith(comparator: Comparator<in UShort>): UShort? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.min(): UInt? {\n    if (isEmpty())
```

return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (min > e) min = e\n   }\n   return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.min(): ULong? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (min > e) min = e\n   }\n   return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.min(): UByte? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (min > e) min = e\n   }\n   return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.min(): UShort? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (min > e) min = e\n   }\n   return min\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UIntArray.minBy(selector: (UInt) -> R): UInt? {\n   if (isEmpty()) return null\n   var minElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return minElem\n   var minValue = selector(minElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (minValue > v) {\n   minElem = e\n   minValue = v\n   }\n   }\n   return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ULongArray.minBy(selector: (ULong) -> R): ULong? {\n   if (isEmpty()) return null\n   var minElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return minElem\n   var minValue = selector(minElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (minValue > v) {\n   minElem = e\n   minValue = v\n   }\n   }\n   return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UByteArray.minBy(selector: (UByte) -> R): UByte? {\n   if (isEmpty()) return null\n   var minElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return minElem\n   var minValue = selector(minElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (minValue > v) {\n   minElem = e\n   minValue = v\n   }\n   }\n   return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UShortArray.minBy(selector: (UShort) -> R): UShort? {\n   if (isEmpty()) return null\n   var minElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return minElem\n   var minValue = selector(minElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (minValue > v) {\n   minElem = e\n   minValue = v\n   }\n   }\n   return minElem\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.minWith(comparator: Comparator<in UInt>): UInt? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(min, e) > 0) min = e\n   }\n   return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.minWith(comparator: Comparator<in ULong>): ULong? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(min, e) > 0) min = e\n   }\n   return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.minWith(comparator:

Comparator<in UByte>): UByte? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(min, e) > 0) min = e\n   }\n   return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.minWith(comparator: Comparator<in UShort>): UShort? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(min, e) > 0) min = e\n   }\n   return min\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.none(predicate: (UInt) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.none(predicate: (ULong) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.none(predicate: (UByte) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.none(predicate: (UShort) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduce(operation: (acc: UInt, UInt) -> UInt): UInt {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduce(operation: (acc: ULong, ULong) -> ULong): ULong {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

UByteArray.reduce(operation: (acc: UByte, UByte) -> UByte): UByte {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduce(operation: (acc: UShort, UShort) -> UShort): UShort {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduceIndexed(operation: (index: Int, acc: UInt, UInt) -> UInt): UInt {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduceIndexed(operation: (index: Int, acc: ULong, ULong) -> ULong): ULong {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduceIndexed(operation: (index: Int, acc: UByte, UByte) -> UByte): UByte {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceIndexed(operation: (index: Int, acc: UShort, UShort) -> UShort): UShort {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduceRight(operation: (UInt, acc: UInt) -> UInt): UInt {\n   var index = lastIndex\n   if (index < 0)\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduceRight(operation: (ULong, acc: ULong) -> ULong): ULong {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduceRight(operation: (UByte, acc: UByte) -> UByte): UByte {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceRight(operation: (UShort, acc: UShort) -> UShort): UShort {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduceRightIndexed(operation: (index: Int, UInt, acc: UInt) -> UInt): UInt {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduceRightIndexed(operation: (index: Int, ULong, acc: ULong) -> ULong): ULong {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduceRightIndexed(operation: (index: Int, UByte, acc: UByte) -> UByte): UByte {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceRightIndexed(operation: (index: Int, UShort, acc: UShort) -> UShort): UShort {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index),

accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumBy(selector: (UInt) -> UInt): UInt {\n var sum: UInt = 0u\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumBy(selector: (ULong) -> UInt): UInt {\n var sum: UInt = 0u\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumBy(selector: (UByte) -> UInt): UInt {\n var sum: UInt = 0u\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sumBy(selector: (UShort) -> UInt): UInt {\n var sum: UInt = 0u\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumByDouble(selector: (UInt) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumByDouble(selector: (ULong) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumByDouble(selector: (UByte) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sumByDouble(selector: (UShort) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UIntArray.zip(other: Array<out R>): List<Pair<UInt, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> ULongArray.zip(other: Array<out R>): List<Pair<ULong, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UByteArray.zip(other: Array<out R>): List<Pair<UByte, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UShortArray.zip(other:

Array<out R>): List<Pair<UShort, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UIntArray.zip(other: Array<out R>, transform: (a: UInt, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> ULongArray.zip(other: Array<out R>, transform: (a: ULong, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UByteArray.zip(other: Array<out R>, transform: (a: UByte, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UShortArray.zip(other: Array<out R>, transform: (a: UShort, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UIntArray.zip(other: Iterable<R>): List<Pair<UInt, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> ULongArray.zip(other: Iterable<R>): List<Pair<ULong, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UByteArray.zip(other: Iterable<R>): List<Pair<UByte, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UShortArray.zip(other: Iterable<R>): List<Pair<UShort, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UIntArray.zip(other: Iterable<R>, transform: (a: UInt, b: R) -> V): List<V> {\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> ULongArray.zip(other: Iterable<R>, transform: (a: ULong, b: R) -> V): List<V> {\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UByteArray.zip(other: Iterable<R>, transform: (a: UByte, b: R) -> V): List<V> {\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UShortArray.zip(other: Iterable<R>, transform: (a: UShort, b: R) -> V): List<V> {\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UIntArray.zip(other: UIntArray): List<Pair<UInt, UInt>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun ULongArray.zip(other: ULongArray): List<Pair<ULong, ULong>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UByteArray.zip(other: UByteArray): List<Pair<UByte, UByte>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UShortArray.zip(other: UShortArray): List<Pair<UShort, UShort>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V> UIntArray.zip(other: UIntArray, transform: (a: UInt, b: UInt) -> V): List<V> {\n val size = minOf(size, other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n

}\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V> ULongArray.zip(other: ULongArray, transform: (a: ULong, b: ULong) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V> UByteArray.zip(other: UByteArray, transform: (a: UByte, b: UByte) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V> UShortArray.zip(other: UShortArray, transform: (a: UShort, b: UShort) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Array<out UInt>.sum(): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Array<out ULong>.sum(): ULong {\n   var sum: ULong = 0uL\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfUByte\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Array<out UByte>.sum(): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfUShort\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Array<out UShort>.sum(): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sum(): UInt {\n   return storage.sum().toUInt()\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sum(): ULong {\n   return storage.sum().toULong()\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sum(): UInt {\n   return sumBy { it.toUInt() }\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sum(): UInt {\n   return sumBy { it.toUInt() }\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"UCollectionsKt\")\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns an array of UByte containing all of the

elements of this collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Collection<UByte>.toUByteArray(): UByteArray {\n   val result = UByteArray(size)\n   var index = 0\n   for (element in this)\n   result[index++] = element\n   return result\n}\n\n/**\n * Returns an array of UInt containing all of the elements of this collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Collection<UInt>.toUIntArray(): UIntArray {\n   val result = UIntArray(size)\n   var index = 0\n   for (element in this)\n   result[index++] = element\n   return result\n}\n\n/**\n * Returns an array of ULong containing all of the elements of this collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Collection<ULong>.toULongArray(): ULongArray {\n   val result = ULongArray(size)\n   var index = 0\n   for (element in this)\n   result[index++] = element\n   return result\n}\n\n/**\n * Returns an array of UShort containing all of the elements of this collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Collection<UShort>.toUShortArray(): UShortArray {\n   val result = UShortArray(size)\n   var index = 0\n   for (element in this)\n   result[index++] = element\n   return result\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Iterable<UInt>.sum(): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Iterable<ULong>.sum(): ULong {\n   var sum: ULong = 0uL\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfUByte\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Iterable<UByte>.sum(): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfUShort\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Iterable<UShort>.sum(): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"UComparisonsKt\")\n\npackage kotlin.comparisons\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: UInt, b: UInt): UInt {\n   return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: ULong, b: ULong): ULong {\n   return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: UByte, b: UByte): UByte {\n   return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: UShort, b: UShort): UShort {\n   return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun maxOf(a: UInt, b: UInt, c: UInt): UInt {\n   return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun maxOf(a: ULong, b: ULong, c: ULong): ULong {\n   return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun maxOf(a: UByte, b: UByte, c: UByte): UByte {\n   return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun maxOf(a: UShort, b: UShort, c: UShort): UShort {\n   return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: UInt, b: UInt): UInt {\n   return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: ULong, b: ULong): ULong {\n return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: UByte, b: UByte): UByte {\n return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: UShort, b: UShort): UShort {\n return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun minOf(a: UInt, b: UInt, c: UInt): UInt {\n return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun minOf(a: ULong, b: ULong, c: ULong): ULong {\n return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun minOf(a: UByte, b: UByte, c: UByte): UByte {\n return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun minOf(a: UShort, b: UShort, c: UShort): UShort {\n return minOf(a, minOf(b, c))\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"URangesKt\")\n\npackage kotlin.ranges\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\n\n/**\n * Returns a random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntRange.random(): UInt {\n return random(Random)\n}\n\n/**\n * Returns a random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongRange.random(): ULong {\n return random(Random)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntRange.random(random: Random): UInt {\n try {\n return random.nextUInt(this)\n } catch(e: IllegalArgumentException) {\n throw NoSuchElementException(e.message)\n }\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongRange.random(random: Random): ULong {\n try {\n return random.nextULong(this)\n } catch(e: IllegalArgumentException) {\n throw NoSuchElementException(e.message)\n }\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntRange.contains(element: UInt?): Boolean {\n return element != null && contains(element)\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongRange.contains(element: ULong?): Boolean {\n return element != null && contains(element)\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun UIntRange.contains(value: UByte): Boolean {\n return contains(value.toUInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun ULongRange.contains(value: UByte): Boolean {\n return contains(value.toULong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun ULongRange.contains(value: UInt): Boolean {\n return contains(value.toULong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun UIntRange.contains(value: ULong): Boolean {\n   return (value shr UInt.SIZE_BITS) == 0uL && contains(value.toUInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun UIntRange.contains(value: UShort): Boolean {\n   return contains(value.toUInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun ULongRange.contains(value: UShort): Boolean {\n   return contains(value.toULong())\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UByte.downTo(to: UByte): UIntProgression {\n   return UIntProgression.fromClosedRange(this.toUInt(), to.toUInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UInt.downTo(to: UInt): UIntProgression {\n   return UIntProgression.fromClosedRange(this, to, -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun ULong.downTo(to: ULong): ULongProgression {\n   return ULongProgression.fromClosedRange(this, to, -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UShort.downTo(to: UShort): UIntProgression {\n   return UIntProgression.fromClosedRange(this.toUInt(), to.toUInt(), -1)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the same step.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntProgression.reversed(): UIntProgression {\n   return UIntProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the same step.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongProgression.reversed(): ULongProgression {\n   return ULongProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a progression that goes over the same range with the given step.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UIntProgression.step(step: Int): UIntProgression {\n   checkStepIsPositive(step > 0, step)\n   return UIntProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/**\n * Returns a progression that goes over the same range with the given step.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun ULongProgression.step(step: Long): ULongProgression {\n   checkStepIsPositive(step > 0, step)\n   return ULongProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UByte.until(to: UByte): UIntRange {\n   if (to <= UByte.MIN_VALUE) return UIntRange.EMPTY\n   return this.toUInt() .. (to - 1u).toUInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UInt.until(to: UInt): UIntRange {\n   if (to <= UInt.MIN_VALUE) return UIntRange.EMPTY\n   return this .. (to - 1u).toUInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun ULong.until(to: ULong): ULongRange {\n   if (to <= ULong.MIN_VALUE) return ULongRange.EMPTY\n   return this .. (to - 1u).toULong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned

range is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UShort.until(to: UShort): UIntRange {\n   if (to <= UShort.MIN_VALUE) return UIntRange.EMPTY\n   return this.toUInt() .. (to - 1u).toUInt()\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UInt.coerceAtLeast(minimumValue: UInt): UInt {\n   return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULong.coerceAtLeast(minimumValue: ULong): ULong {\n   return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByte.coerceAtLeast(minimumValue: UByte): UByte {\n   return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShort.coerceAtLeast(minimumValue: UShort): UShort {\n   return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMostUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UInt.coerceAtMost(maximumValue: UInt): UInt {\n   return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMostUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULong.coerceAtMost(maximumValue: ULong): ULong {\n   return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMostUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByte.coerceAtMost(maximumValue: UByte): UByte {\n   return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMostUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShort.coerceAtMost(maximumValue: UShort): UShort {\n   return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UInt.coerceIn(minimumValue: UInt, maximumValue: UInt): UInt {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n   if (this <

minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n   return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULong.coerceIn(minimumValue: ULong, maximumValue: ULong): ULong {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n   if (this < minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n   return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByte.coerceIn(minimumValue: UByte, maximumValue: UByte): UByte {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n   if (this < minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n   return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShort.coerceIn(minimumValue: UShort, maximumValue: UShort): UShort {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n   if (this < minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n   return this\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UInt.coerceIn(range: ClosedRange<UInt>): UInt {\n   if (range is ClosedFloatingPointRange) {\n   return this.coerceIn<UInt>(range)\n   }\n   if (range.isEmpty()) throw IllegalArgumentException(\"Cannot coerce value to an empty range: $range.\")\n   return when {\n   this < range.start -> range.start\n   this > range.endInclusive -> range.endInclusive\n   else -> this\n   }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULong.coerceIn(range: ClosedRange<ULong>): ULong {\n   if (range is ClosedFloatingPointRange) {\n   return this.coerceIn<ULong>(range)\n   }\n   if (range.isEmpty()) throw IllegalArgumentException(\"Cannot coerce value to an empty range: $range.\")\n   return when {\n   this < range.start -> range.start\n   this > range.endInclusive -> range.endInclusive\n   else -> this\n   }\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"USequencesKt\")\n\npackage kotlin.sequences\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun

Sequence<UInt>.sum(): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Sequence<ULong>.sum(): ULong {\n   var sum: ULong = 0uL\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfUByte\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Sequence<UByte>.sum(): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfUShort\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Sequence<UShort>.sum(): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n","/*\r\n * Copyright 2010-2015 JetBrains s.r.o.\r\n *\r\n * Licensed under the Apache License, Version 2.0 (the \"License\");\r\n * you may not use this file except in compliance with the License.\r\n * You may obtain a copy of the License at\r\n *\r\n * http://www.apache.org/licenses/LICENSE-2.0\r\n *\r\n * Unless required by applicable law or agreed to in writing, software\r\n * distributed under the License is distributed on an \"AS IS\" BASIS,\r\n * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\r\n * See the License for the specific language governing permissions and\r\n * limitations under the License.\r\n */\r\n\r\npackage kotlin.annotation\r\n\r\nimport kotlin.annotation.AnnotationTarget.*\r\n\r\n/**\r\n * Contains the list of code elements which are the possible annotation targets\r\n */\r\npublic enum class AnnotationTarget {\r\n   /** Class, interface or object, annotation class is also included */\r\n   CLASS,\r\n   /** Annotation class only */\r\n   ANNOTATION_CLASS,\r\n   /** Generic type parameter (unsupported yet) */\r\n   TYPE_PARAMETER,\r\n   /** Property */\r\n   PROPERTY,\r\n   /** Field, including property's backing field */\r\n   FIELD,\r\n   /** Local variable */\r\n   LOCAL_VARIABLE,\r\n   /** Value parameter of a function or a constructor */\r\n   VALUE_PARAMETER,\r\n   /** Constructor only (primary or secondary) */\r\n   CONSTRUCTOR,\r\n   /** Function (constructors are not included) */\r\n   FUNCTION,\r\n   /** Property getter only */\r\n   PROPERTY_GETTER,\r\n   /** Property setter only */\r\n   PROPERTY_SETTER,\r\n   /** Type usage */\r\n   TYPE,\r\n   /** Any expression */\r\n   EXPRESSION,\r\n   /** File */\r\n   FILE,\r\n   /** Type alias */\r\n   @SinceKotlin(\"1.1\")\r\n   TYPEALIAS\r\n}\r\n\r\n/**\r\n * Contains the list of possible annotation's retentions.\r\n *\r\n * Determines how an annotation is stored in binary output.\r\n */\r\npublic enum class AnnotationRetention {\r\n   /** Annotation isn't stored in binary output */\r\n   SOURCE,\r\n   /** Annotation is stored in binary output, but invisible for reflection */\r\n   BINARY,\r\n   /** Annotation is stored in binary output and visible for reflection (default retention) */\r\n   RUNTIME\r\n}\r\n\r\n/**\r\n * This meta-annotation indicates the kinds of code elements which are possible targets of an annotation.\r\n *\r\n * If the target meta-annotation is not present on an annotation declaration, the annotation is applicable to the following elements:\r\n * [CLASS], [PROPERTY], [FIELD], [LOCAL_VARIABLE], [VALUE_PARAMETER], [CONSTRUCTOR], [FUNCTION], [PROPERTY_GETTER], [PROPERTY_SETTER].\r\n *\r\n * @property allowedTargets list of allowed annotation targets\r\n */\r\n@Target(AnnotationTarget.ANNOTATION_CLASS)\r\n@MustBeDocumented\r\npublic annotation class Target(vararg val allowedTargets: AnnotationTarget)\r\n\r\n/**\r\n * This meta-annotation determines whether an annotation is stored in binary output and visible for reflection. By default, both are true.\r\n *\r\n * @property value necessary annotation retention (RUNTIME, BINARY or SOURCE)\r\n */\r\n@Target(AnnotationTarget.ANNOTATION_CLASS)\r\npublic annotation class Retention(val value: AnnotationRetention = AnnotationRetention.RUNTIME)\r\n\r\n/**\r\n * This meta-annotation determines that an annotation is applicable twice or more on a single code element\r\n */\r\n@Target(AnnotationTarget.ANNOTATION_CLASS)\r\npublic annotation class Repeatable\r\n\r\n/**\r\n * This meta-annotation determines that an annotation is a part of public API and therefore should be included in the generated\r\n * documentation for the element to which the annotation is applied.\r\n */\r\n@Target(AnnotationTarget.ANNOTATION_CLASS)\r\npublic annotation class MustBeDocumented\r\n","/*\r\n * Copyright 2010-2015 JetBrains s.r.o.\r\n *\r\n * Licensed under the Apache

License, Version 2.0 (the \"License\");\r\n * you may not use this file except in compliance with the License.\r\n * You may obtain a copy of the License at\r\n *\r\n * http://www.apache.org/licenses/LICENSE-2.0\r\n *\r\n * Unless required by applicable law or agreed to in writing, software\r\n * distributed under the License is distributed on an \"AS IS\" BASIS,\r\n * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\r\n * See the License for the specific language governing permissions and\r\n * limitations under the License.\r\n */\r\n\r\npackage kotlin.collections\r\n\r\nimport kotlin.internal.PlatformDependent\r\n\r\n/**\r\n * Classes that inherit from this interface can be represented as a sequence of elements that can\r\n * be iterated over.\r\n * @param T the type of element being iterated over. The iterator is covariant on its element type.\r\n */\r\npublic interface Iterable<out T> {\r\n   /**\r\n   * Returns an iterator over the elements of this object.\r\n   */\r\n   public operator fun iterator(): Iterator<T>\r\n}\r\n\r\n/**\r\n * Classes that inherit from this interface can be represented as a sequence of elements that can\r\n * be iterated over and that supports removing elements during iteration.\r\n * @param T the type of element being iterated over. The mutable iterator is invariant on its element type.\r\n */\r\npublic interface MutableIterable<out T> : Iterable<T> {\r\n   /**\r\n   * Returns an iterator over the elements of this sequence that supports removing elements during iteration.\r\n   */\r\n   override fun iterator(): MutableIterator<T>\r\n}\r\n\r\n/**\r\n * A generic collection of elements. Methods in this interface support only read-only access to the collection;\r\n * read/write access is supported through the [MutableCollection] interface.\r\n * @param E the type of elements contained in the collection. The collection is covariant on its element type.\r\n */\r\npublic interface Collection<out E> : Iterable<E> {\r\n   // Query Operations\r\n   /**\r\n   * Returns the size of the collection.\r\n   */\r\n   public val size: Int\r\n\r\n   /**\r\n   * Returns `true` if the collection is empty (contains no elements), `false` otherwise.\r\n   */\r\n   public fun isEmpty(): Boolean\r\n\r\n   /**\r\n   * Checks if the specified element is contained in this collection.\r\n   */\r\n   public operator fun contains(element: @UnsafeVariance E): Boolean\r\n\r\n   override fun iterator(): Iterator<E>\r\n\r\n   // Bulk Operations\r\n   /**\r\n   * Checks if all elements in the specified collection are contained in this collection.\r\n   */\r\n   public fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean\r\n}\r\n\r\n/**\r\n * A generic collection of elements that supports adding and removing elements.\r\n *\r\n * @param E the type of elements contained in the collection. The mutable collection is invariant on its element type.\r\n */\r\npublic interface MutableCollection<E> : Collection<E>, MutableIterable<E> {\r\n   // Query Operations\r\n   override fun iterator(): MutableIterator<E>\r\n\r\n   // Modification Operations\r\n   /**\r\n   * Adds the specified element to the collection.\r\n   *\r\n   * @return `true` if the element has been added, `false` if the collection does not support duplicates\r\n   * and the element is already contained in the collection.\r\n   */\r\n   public fun add(element: E): Boolean\r\n\r\n   /**\r\n   * Removes a single instance of the specified element from this\r\n   * collection, if it is present.\r\n   *\r\n   * @return `true` if the element has been successfully removed; `false` if it was not present in the collection.\r\n   */\r\n   public fun remove(element: E): Boolean\r\n\r\n   // Bulk Modification Operations\r\n   /**\r\n   * Adds all of the elements of the specified collection to this collection.\r\n   *\r\n   * @return `true` if any of the specified elements was added to the collection, `false` if the collection was not modified.\r\n   */\r\n   public fun addAll(elements: Collection<E>): Boolean\r\n\r\n   /**\r\n   * Removes all of this collection's elements that are also contained in the specified collection.\r\n   *\r\n   * @return `true` if any of the specified elements was removed from the collection, `false` if the collection was not modified.\r\n   */\r\n   public fun removeAll(elements: Collection<E>): Boolean\r\n\r\n   /**\r\n   * Retains only the elements in this collection that are contained in the specified collection.\r\n   *\r\n   * @return `true` if any element was removed from the collection, `false` if the collection was not modified.\r\n   */\r\n   public fun retainAll(elements: Collection<E>): Boolean\r\n\r\n   /**\r\n   * Removes all elements from this collection.\r\n   */\r\n   public fun clear(): Unit\r\n}\r\n\r\n/**\r\n * A generic ordered collection of elements. Methods in this interface support only read-only access to the list;\r\n * read/write access is supported through the [MutableList] interface.\r\n * @param E the type of elements contained in the list. The list is covariant on its element type.\r\n */\r\npublic interface List<out E> : Collection<E> {\r\n   // Query Operations\r\n\r\n   override val size: Int\r\n   override fun isEmpty(): Boolean\r\n   override fun contains(element: @UnsafeVariance E): Boolean\r\n   override fun iterator(): Iterator<E>\r\n\r\n   // Bulk Operations\r\n   override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean\r\n\r\n   //

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Positional Access Operations\r\n    /**\r\n     * Returns the element at the specified index in the list.\r\n     */\r\n    public operator fun get(index: Int): E\r\n\r\n    // Search Operations\r\n    /**\r\n     * Returns the index of the first occurrence of the specified element in the list, or -1 if the specified\r\n     * element is not contained in the list.\r\n     */\r\n    public fun indexOf(element: @UnsafeVariance E): Int\r\n\r\n    /**\r\n     * Returns the index of the last occurrence of the specified element in the list, or -1 if the specified\r\n     * element is not contained in the list.\r\n     */\r\n    public fun lastIndexOf(element: @UnsafeVariance E): Int\r\n\r\n    // List Iterators\r\n    /**\r\n     * Returns a list iterator over the elements in this list (in proper sequence).\r\n     */\r\n    public fun listIterator(): ListIterator<E>\r\n\r\n    /**\r\n     * Returns a list iterator over the elements in this list (in proper sequence), starting at the specified [index].\r\n     */\r\n    public fun listIterator(index: Int): ListIterator<E>\r\n\r\n    // View\r\n    /**\r\n     * Returns a view of the portion of this list between the specified [fromIndex] (inclusive) and [toIndex] (exclusive).\r\n     * The returned list is backed by this list, so non-structural changes in the returned list are reflected in this list, and vice-versa.\r\n     *\r\n     * Structural changes in the base list make the behavior of the view undefined.\r\n     */\r\n    public fun subList(fromIndex: Int, toIndex: Int): List<E>\r\n}\r\n\r\n/**\r\n * A generic ordered collection of elements that supports adding and removing elements.\r\n * @param E the type of elements contained in the list. The mutable list is invariant on its element type.\r\n */\r\npublic interface MutableList<E> : List<E>, MutableCollection<E> {\r\n    // Modification Operations\r\n    /**\r\n     * Adds the specified element to the end of this list.\r\n     *\r\n     * @return `true` because the list is always modified as the result of this operation.\r\n     */\r\n    override fun add(element: E): Boolean\r\n\r\n    override fun remove(element: E): Boolean\r\n\r\n    // Bulk Modification Operations\r\n    /**\r\n     * Adds all of the elements of the specified collection to the end of this list.\r\n     *\r\n     * The elements are appended in the order they appear in the [elements] collection.\r\n     *\r\n     * @return `true` if the list was changed as the result of the operation.\r\n     */\r\n    override fun addAll(elements: Collection<E>): Boolean\r\n\r\n    /**\r\n     * Inserts all of the elements of the specified collection [elements] into this list at the specified [index].\r\n     *\r\n     * @return `true` if the list was changed as the result of the operation.\r\n     */\r\n    public fun addAll(index: Int, elements: Collection<E>): Boolean\r\n\r\n    override fun removeAll(elements: Collection<E>): Boolean\r\n    override fun retainAll(elements: Collection<E>): Boolean\r\n    override fun clear(): Unit\r\n\r\n    // Positional Access Operations\r\n    /**\r\n     * Replaces the element at the specified position in this list with the specified element.\r\n     *\r\n     * @return the element previously at the specified position.\r\n     */\r\n    public operator fun set(index: Int, element: E): E\r\n\r\n    /**\r\n     * Inserts an element into the list at the specified [index].\r\n     */\r\n    public fun add(index: Int, element: E): Unit\r\n\r\n    /**\r\n     * Removes an element at the specified [index] from the list.\r\n     *\r\n     * @return the element that has been removed.\r\n     */\r\n    public fun removeAt(index: Int): E\r\n\r\n    // List Iterators\r\n    override fun listIterator(): MutableListIterator<E>\r\n\r\n    override fun listIterator(index: Int): MutableListIterator<E>\r\n\r\n    // View\r\n    override fun subList(fromIndex: Int, toIndex: Int): MutableList<E>\r\n}\r\n\r\n/**\r\n * A generic unordered collection of elements that does not support duplicate elements.\r\n * Methods in this interface support only read-only access to the set;\r\n * read/write access is supported through the [MutableSet] interface.\r\n * @param E the type of elements contained in the set. The set is covariant on its element type.\r\n */\r\npublic interface Set<out E> : Collection<E> {\r\n    // Query Operations\r\n\r\n    override val size: Int\r\n    override fun isEmpty(): Boolean\r\n    override fun contains(element: @UnsafeVariance E): Boolean\r\n    override fun iterator(): Iterator<E>\r\n\r\n    // Bulk Operations\r\n    override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean\r\n}\r\n\r\n/**\r\n * A generic unordered collection of elements that does not support duplicate elements, and supports\r\n * adding and removing elements.\r\n * @param E the type of elements contained in the set. The mutable set is invariant on its element type.\r\n */\r\npublic interface MutableSet<E> : Set<E>, MutableCollection<E> {\r\n    // Query Operations\r\n    override fun iterator(): MutableIterator<E>\r\n\r\n    // Modification Operations\r\n\r\n    /**\r\n     * Adds the specified element to the set.\r\n     *\r\n     * @return `true` if the element has been added, `false` if the element is already contained in the set.\r\n     */\r\n    override fun add(element: E): Boolean\r\n\r\n    override fun remove(element: E): Boolean\r\n\r\n    // Bulk Modification Operations\r\n\r\n    override fun addAll(elements: Collection<E>): Boolean\r\n    override fun removeAll(elements: Collection<E>): Boolean\r\n    override fun
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retainAll(elements: Collection<E>): Boolean\r\n   override fun clear(): Unit\r\n}\r\n\r\n/**\r\n * A collection that holds pairs of objects (keys and values) and supports efficiently retrieving\r\n * the value corresponding to each key. Map keys are unique; the map holds only one value for each key.\r\n * Methods in this interface support only read-only access to the map; read-write access is supported through\r\n * the [MutableMap] interface.\r\n * @param K the type of map keys. The map is invariant on its key type, as it\r\n *   can accept key as a parameter (of [containsKey] for example) and return it in [keys] set.\r\n * @param V the type of map values. The map is covariant on its value type.\r\n */\r\npublic interface Map<K, out V> {\r\n   // Query Operations\r\n   /**\r\n   * Returns the number of key/value pairs in the map.\r\n   */\r\n   public val size: Int\r\n\r\n\r\n   /**\r\n   * Returns `true` if the map is empty (contains no elements), `false` otherwise.\r\n   */\r\n   public fun isEmpty(): Boolean\r\n\r\n\r\n   /**\r\n   * Returns `true` if the map contains the specified [key].\r\n   */\r\n   public fun containsKey(key: K): Boolean\r\n\r\n\r\n   /**\r\n   * Returns `true` if the map maps one or more keys to the specified [value].\r\n   */\r\n   public fun containsValue(value: @UnsafeVariance V): Boolean\r\n\r\n\r\n   /**\r\n   * Returns the value corresponding to the given [key], or `null` if such a key is not present in the map.\r\n   */\r\n   public operator fun get(key: K): V?\r\n\r\n\r\n   /**\r\n   * Returns the value corresponding to the given [key], or [defaultValue] if such a key is not present in the map.\r\n   *\r\n   * @since JDK 1.8\r\n   */\r\n   @SinceKotlin(\"1.1\")\r\n   @PlatformDependent\r\n   public fun getOrDefault(key: K, defaultValue: @UnsafeVariance V): V {\r\n   // See default implementation in JDK sources\r\n   return null as V\r\n   }\r\n\r\n\r\n   // Views\r\n   /**\r\n   * Returns a read-only [Set] of all keys in this map.\r\n   */\r\n   public val keys: Set<K>\r\n\r\n\r\n   /**\r\n   * Returns a read-only [Collection] of all values in this map. Note that this collection may contain duplicate values.\r\n   */\r\n   public val values: Collection<V>\r\n\r\n\r\n   /**\r\n   * Returns a read-only [Set] of all key/value pairs in this map.\r\n   */\r\n   public val entries: Set<Map.Entry<K, V>>\r\n\r\n\r\n   /**\r\n   * Represents a key/value pair held by a [Map].\r\n   */\r\n   public interface Entry<out K, out V> {\r\n   /**\r\n   * Returns the key of this key/value pair.\r\n   */\r\n   public val key: K\r\n\r\n\r\n   /**\r\n   * Returns the value of this key/value pair.\r\n   */\r\n   public val value: V\r\n   }\r\n}\r\n\r\n\r\n/**\r\n * A modifiable collection that holds pairs of objects (keys and values) and supports efficiently retrieving\r\n * the value corresponding to each key. Map keys are unique; the map holds only one value for each key.\r\n * @param K the type of map keys. The map is invariant on its key type.\r\n * @param V the type of map values. The mutable map is invariant on its value type.\r\n */\r\npublic interface MutableMap<K, V> : Map<K, V> {\r\n   // Modification Operations\r\n   /**\r\n   * Associates the specified [value] with the specified [key] in the map.\r\n   *\r\n   * @return the previous value associated with the key, or `null` if the key was not present in the map.\r\n   */\r\n   public fun put(key: K, value: V): V?\r\n\r\n\r\n   /**\r\n   * Removes the specified key and its corresponding value from this map.\r\n   *\r\n   * @return the previous value associated with the key, or `null` if the key was not present in the map.\r\n   */\r\n   public fun remove(key: K): V?\r\n\r\n\r\n   /**\r\n   * Removes the entry for the specified key only if it is mapped to the specified value.\r\n   *\r\n   * @return true if entry was removed\r\n   */\r\n   @SinceKotlin(\"1.1\")\r\n   @PlatformDependent\r\n   public fun remove(key: K, value: V): Boolean {\r\n   // See default implementation in JDK sources\r\n   return true\r\n   }\r\n\r\n\r\n   // Bulk Modification Operations\r\n   /**\r\n   * Updates this map with key/value pairs from the specified map [from].\r\n   */\r\n   public fun putAll(from: Map<out K, V>): Unit\r\n\r\n\r\n   /**\r\n   * Removes all elements from this map.\r\n   */\r\n   public fun clear(): Unit\r\n\r\n\r\n   // Views\r\n   /**\r\n   * Returns a [MutableSet] of all keys in this map.\r\n   */\r\n   override val keys: MutableSet<K>\r\n\r\n\r\n   /**\r\n   * Returns a [MutableCollection] of all values in this map. Note that this collection may contain duplicate values.\r\n   */\r\n   override val values: MutableCollection<V>\r\n\r\n\r\n   /**\r\n   * Returns a [MutableSet] of all key/value pairs in this map.\r\n   */\r\n   override val entries: MutableSet<MutableMap.MutableEntry<K, V>>\r\n\r\n\r\n   /**\r\n   * Represents a key/value pair held by a [MutableMap].\r\n   */\r\n   public interface MutableEntry<K, V> : Map.Entry<K, V> {\r\n   /**\r\n   * Changes the value associated with the key of this entry.\r\n   *\r\n   * @return the previous value corresponding to the key.\r\n   */\r\n   public fun setValue(newValue: V): V\r\n   }\r\n}\r\n","/*\r\n * Copyright 2010-2016 JetBrains s.r.o.\r\n *\r\n * Licensed under the Apache License, Version 2.0 (the \"License\");\r\n * you may not use this file except in compliance with the License.\r\n * You may obtain a copy of the License at\r\n *\r\n * http://www.apache.org/licenses/LICENSE-2.0\r\n *\r\n * Unless required by

applicable law or agreed to in writing, software\r\n * distributed under the License is distributed on an \"AS IS\" BASIS,\r\n * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\r\n * See the License for the specific language governing permissions and\r\n * limitations under the License.\r\n */\r\n\r\npackage kotlin.internal\r\n\r\n/**\r\n * Specifies that the corresponding type parameter is not used for unsafe operations such as casts or 'is' checks\r\n * That means it's completely safe to use generic types as argument for such parameter.\r\n */\r\n@Target(AnnotationTarget.TYPE_PARAMETER)\r\n@Retention(AnnotationRetention.BINARY)\r\ninternal annotation class PureReifiable\r\n\r\n/**\r\n * Specifies that the corresponding built-in method exists depending on platform.\r\n * Current implementation for JVM looks whether method with same JVM descriptor exists in the module JDK.\r\n * For example MutableMap.remove(K, V) available only if corresponding\r\n * method 'java/util/Map.remove(Ljava/lang/Object;Ljava/lang/Object;)Z' is defined in JDK (i.e. for major versions >= 8)\r\n */\r\n@Target(AnnotationTarget.FUNCTION)\r\n@Retention(AnnotationRetention.BINARY)\r\ninternal annotation class PlatformDependent\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.internal\r\n\r\n// a mod b (in arithmetical sense)\r\nprivate fun mod(a: Int, b: Int): Int {\r\n   val mod = a % b\r\n   return if (mod >= 0) mod else mod + b\r\n}\r\n\r\nprivate fun mod(a: Long, b: Long): Long {\r\n   val mod = a % b\r\n   return if (mod >= 0) mod else mod + b\r\n}\r\n\r\n// (a - b) mod c\r\nprivate fun differenceModulo(a: Int, b: Int, c: Int): Int {\r\n   return mod(mod(a, c) - mod(b, c), c)\r\n}\r\n\r\nprivate fun differenceModulo(a: Long, b: Long, c: Long): Long {\r\n   return mod(mod(a, c) - mod(b, c), c)\r\n}\r\n\r\n/**\r\n * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range\r\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\r\n * [step].\r\n *\r\n * No validation on passed parameters is performed. The given parameters should satisfy the condition:\r\n *\r\n * - either `step > 0` and `start <= end`,\r\n * - or `step < 0` and `start >= end`.\r\n *\r\n * @param start first element of the progression\r\n * @param end ending bound for the progression\r\n * @param step increment, or difference of successive elements in the progression\r\n * @return the final element of the progression\r\n * @suppress\r\n */\r\n@PublishedApi\r\ninternal fun getProgressionLastElement(start: Int, end: Int, step: Int): Int = when {\r\n   step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step)\r\n   step < 0 -> if (start <= end) end else end + differenceModulo(start, end, -step)\r\n   else -> throw kotlin.IllegalArgumentException(\"Step is zero.\")\r\n}\r\n\r\n/**\r\n * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range\r\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\r\n * [step].\r\n *\r\n * No validation on passed parameters is performed. The given parameters should satisfy the condition:\r\n *\r\n * - either `step > 0` and `start <= end`,\r\n * - or `step < 0` and `start >= end`.\r\n *\r\n * @param start first element of the progression\r\n * @param end ending bound for the progression\r\n * @param step increment, or difference of successive elements in the progression\r\n * @return the final element of the progression\r\n * @suppress\r\n */\r\n@PublishedApi\r\ninternal fun getProgressionLastElement(start: Long, end: Long, step: Long): Long = when {\r\n   step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step)\r\n   step < 0 -> if (start <= end) end else end + differenceModulo(start, end, -step)\r\n   else -> throw kotlin.IllegalArgumentException(\"Step is zero.\")\r\n}\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// Auto-generated file. DO NOT EDIT!\r\n\r\npackage kotlin.collections\r\n\r\n/** An iterator over a sequence of values of type `Byte`. */\r\npublic abstract class ByteIterator : Iterator<Byte> {\r\n   override final fun next() = nextByte()\r\n\r\n   /** Returns the next value in the sequence without boxing. */\r\n   public abstract fun nextByte(): Byte\r\n}\r\n\r\n/** An iterator over a sequence of values of type `Char`. */\r\npublic abstract class CharIterator : Iterator<Char> {\r\n   override final fun next() = nextChar()\r\n\r\n   /** Returns the next value in the sequence without boxing. */\r\n   public abstract fun nextChar(): Char\r\n}\r\n\r\n/** An iterator over a sequence of values of type `Short`. */\r\npublic abstract class ShortIterator : Iterator<Short> {\r\n   override final fun next() = nextShort()\r\n\r\n   /** Returns the next value in the sequence without boxing. */\r\n   public abstract fun

nextShort(): Short\r\n}\r\n\r\n/** An iterator over a sequence of values of type `Int`. */\r\npublic abstract class IntIterator : Iterator<Int> {\r\n override final fun next() = nextInt()\r\n\r\n /** Returns the next value in the sequence without boxing. */\r\n public abstract fun nextInt(): Int\r\n}\r\n\r\n/** An iterator over a sequence of values of type `Long`. */\r\npublic abstract class LongIterator : Iterator<Long> {\r\n override final fun next() = nextLong()\r\n\r\n /** Returns the next value in the sequence without boxing. */\r\n public abstract fun nextLong(): Long\r\n}\r\n\r\n/** An iterator over a sequence of values of type `Float`. */\r\npublic abstract class FloatIterator : Iterator<Float> {\r\n override final fun next() = nextFloat()\r\n\r\n /** Returns the next value in the sequence without boxing. */\r\n public abstract fun nextFloat(): Float\r\n}\r\n\r\n/** An iterator over a sequence of values of type `Double`. */\r\npublic abstract class DoubleIterator : Iterator<Double> {\r\n override final fun next() = nextDouble()\r\n\r\n /** Returns the next value in the sequence without boxing. */\r\n public abstract fun nextDouble(): Double\r\n}\r\n\r\n/** An iterator over a sequence of values of type `Boolean`. */\r\npublic abstract class BooleanIterator : Iterator<Boolean> {\r\n override final fun next() = nextBoolean()\r\n\r\n /** Returns the next value in the sequence without boxing. */\r\n public abstract fun nextBoolean(): Boolean\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// Auto-generated file. DO NOT EDIT!\r\n\r\npackage kotlin.ranges\r\n\r\n/**\r\n * An iterator over a progression of values of type `Char`.\r\n * @property step the number by which the value is incremented on each step.\r\n */\r\ninternal class CharProgressionIterator(first: Char, last: Char, val step: Int) : CharIterator() {\r\n private val finalElement = last.toInt()\r\n private var hasNext: Boolean = if (step > 0) first <= last else first >= last\r\n private var next = if (hasNext) first.toInt() else finalElement\r\n\r\n override fun hasNext(): Boolean = hasNext\r\n\r\n override fun nextChar(): Char {\r\n val value = next\r\n if (value == finalElement) {\r\n if (!hasNext) throw kotlin.NoSuchElementException()\r\n hasNext = false\r\n }\r\n else {\r\n next += step\r\n }\r\n return value.toChar()\r\n }\r\n}\r\n\r\n/**\r\n * An iterator over a progression of values of type `Int`.\r\n * @property step the number by which the value is incremented on each step.\r\n */\r\ninternal class IntProgressionIterator(first: Int, last: Int, val step: Int) : IntIterator() {\r\n private val finalElement = last\r\n private var hasNext: Boolean = if (step > 0) first <= last else first >= last\r\n private var next = if (hasNext) first else finalElement\r\n\r\n override fun hasNext(): Boolean = hasNext\r\n\r\n override fun nextInt(): Int {\r\n val value = next\r\n if (value == finalElement) {\r\n if (!hasNext) throw kotlin.NoSuchElementException()\r\n hasNext = false\r\n }\r\n else {\r\n next += step\r\n }\r\n return value\r\n }\r\n}\r\n\r\n/**\r\n * An iterator over a progression of values of type `Long`.\r\n * @property step the number by which the value is incremented on each step.\r\n */\r\ninternal class LongProgressionIterator(first: Long, last: Long, val step: Long) : LongIterator() {\r\n private val finalElement = last\r\n private var hasNext: Boolean = if (step > 0) first <= last else first >= last\r\n private var next = if (hasNext) first else finalElement\r\n\r\n override fun hasNext(): Boolean = hasNext\r\n\r\n override fun nextLong(): Long {\r\n val value = next\r\n if (value == finalElement) {\r\n if (!hasNext) throw kotlin.NoSuchElementException()\r\n hasNext = false\r\n }\r\n else {\r\n next += step\r\n }\r\n return value\r\n }\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// Auto-generated file. DO NOT EDIT!\r\n\r\npackage kotlin.ranges\r\n\r\nimport kotlin.internal.getProgressionLastElement\r\n\r\n/**\r\n * A progression of values of type `Char`.\r\n */\r\npublic open class CharProgression\r\n internal constructor\r\n (\r\n start: Char,\r\n endInclusive: Char,\r\n step: Int\r\n) : Iterable<Char> {\r\n init {\r\n if (step == 0) throw kotlin.IllegalArgumentException(\"Step must be non-zero.\")\r\n if (step == Int.MIN_VALUE) throw kotlin.IllegalArgumentException(\"Step must be greater than Int.MIN_VALUE to avoid overflow on negation.\")\r\n }\r\n\r\n /**\r\n * The first element in the progression.\r\n */\r\n public val first: Char = start\r\n\r\n /**\r\n * The last element in the progression.\r\n */\r\n public val last: Char = getProgressionLastElement(start.toInt(), endInclusive.toInt(), step).toChar()\r\n\r\n /**\r\n * The step of the

progression.\r\n */\r\n public val step: Int = step\r\n\r\n override fun iterator(): CharIterator = CharProgressionIterator(first, last, step)\r\n\r\n /** Checks if the progression is empty. */\r\n public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\r\n\r\n override fun equals(other: Any?): Boolean =\r\n other is CharProgression && (isEmpty() && other.isEmpty() ||\r\n first == other.first && last == other.last && step == other.step)\r\n\r\n override fun hashCode(): Int =\r\n if (isEmpty()) -1 else (31 * (31 * first.toInt() + last.toInt()) + step)\r\n\r\n override fun toString(): String = if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step ${-step}\"\r\n\r\n companion object {\r\n /**\r\n * Creates CharProgression within the specified bounds of a closed range.\r\n\r\n * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\r\n * In order to go backwards the [step] must be negative.\r\n *\r\n * [step] must be greater than `Int.MIN_VALUE` and not equal to zero.\r\n */\r\n public fun fromClosedRange(rangeStart: Char, rangeEnd: Char, step: Int): CharProgression = CharProgression(rangeStart, rangeEnd, step)\r\n }\r\n}\r\n\r\n/**\r\n * A progression of values of type `Int`.\r\n */\r\npublic open class IntProgression\r\n internal constructor\r\n (\r\n start: Int,\r\n endInclusive: Int,\r\n step: Int\r\n) : Iterable<Int> {\r\n init {\r\n if (step == 0) throw kotlin.IllegalArgumentException(\"Step must be non-zero.\")\r\n if (step == Int.MIN_VALUE) throw kotlin.IllegalArgumentException(\"Step must be greater than Int.MIN_VALUE to avoid overflow on negation.\")\r\n }\r\n\r\n /**\r\n * The first element in the progression.\r\n */\r\n public val first: Int = start\r\n\r\n /**\r\n * The last element in the progression.\r\n */\r\n public val last: Int = getProgressionLastElement(start.toInt(), endInclusive.toInt(), step).toInt()\r\n\r\n /**\r\n * The step of the progression.\r\n */\r\n public val step: Int = step\r\n\r\n override fun iterator(): IntIterator = IntProgressionIterator(first, last, step)\r\n\r\n /** Checks if the progression is empty. */\r\n public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\r\n\r\n override fun equals(other: Any?): Boolean =\r\n other is IntProgression && (isEmpty() && other.isEmpty() ||\r\n first == other.first && last == other.last && step == other.step)\r\n\r\n override fun hashCode(): Int =\r\n if (isEmpty()) -1 else (31 * (31 * first + last) + step)\r\n\r\n override fun toString(): String = if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step ${-step}\"\r\n\r\n companion object {\r\n /**\r\n * Creates IntProgression within the specified bounds of a closed range.\r\n\r\n * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\r\n * In order to go backwards the [step] must be negative.\r\n *\r\n * [step] must be greater than `Int.MIN_VALUE` and not equal to zero.\r\n */\r\n public fun fromClosedRange(rangeStart: Int, rangeEnd: Int, step: Int): IntProgression = IntProgression(rangeStart, rangeEnd, step)\r\n }\r\n}\r\n\r\n/**\r\n * A progression of values of type `Long`.\r\n */\r\npublic open class LongProgression\r\n internal constructor\r\n (\r\n start: Long,\r\n endInclusive: Long,\r\n step: Long\r\n) : Iterable<Long> {\r\n init {\r\n if (step == 0L) throw kotlin.IllegalArgumentException(\"Step must be non-zero.\")\r\n if (step == Long.MIN_VALUE) throw kotlin.IllegalArgumentException(\"Step must be greater than Long.MIN_VALUE to avoid overflow on negation.\")\r\n }\r\n\r\n /**\r\n * The first element in the progression.\r\n */\r\n public val first: Long = start\r\n\r\n /**\r\n * The last element in the progression.\r\n */\r\n public val last: Long = getProgressionLastElement(start.toLong(), endInclusive.toLong(), step).toLong()\r\n\r\n /**\r\n * The step of the progression.\r\n */\r\n public val step: Long = step\r\n\r\n override fun iterator(): LongIterator = LongProgressionIterator(first, last, step)\r\n\r\n /** Checks if the progression is empty. */\r\n public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\r\n\r\n override fun equals(other: Any?): Boolean =\r\n other is LongProgression && (isEmpty() && other.isEmpty() ||\r\n first == other.first && last == other.last && step == other.step)\r\n\r\n override fun hashCode(): Int =\r\n if (isEmpty()) -1 else (31 * (31 * (first xor (first ushr 32)) + (last xor (last ushr 32))) + (step xor (step ushr 32))).toInt()\r\n\r\n override fun toString(): String = if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step ${-step}\"\r\n\r\n companion object {\r\n /**\r\n * Creates LongProgression within the specified bounds of a closed range.\r\n\r\n * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\r\n * In order to go backwards the [step] must be negative.\r\n *\r\n

* [step] must be greater than `Long.MIN_VALUE` and not equal to zero.\r\n */\r\n public fun fromClosedRange(rangeStart: Long, rangeEnd: Long, step: Long): LongProgression = LongProgression(rangeStart, rangeEnd, step)\r\n }\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.ranges\r\n\r\n/**\r\n * Represents a range of values (for example, numbers or characters).\r\n * See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/ranges.html) for more information.\r\n */\r\npublic interface ClosedRange<T: Comparable<T>> {\r\n /**\r\n * The minimum value in the range.\r\n */\r\n public val start: T\r\n\r\n /**\r\n * The maximum value in the range (inclusive).\r\n */\r\n public val endInclusive: T\r\n\r\n /**\r\n * Checks whether the specified [value] belongs to the range.\r\n */\r\n public operator fun contains(value: T): Boolean = value >= start && value <= endInclusive\r\n\r\n /**\r\n * Checks whether the range is empty.\r\n */\r\n public fun isEmpty(): Boolean = start > endInclusive\r\n}\r\n","/*\r\n * Copyright 2010-2015 JetBrains s.r.o.\r\n *\r\n * Licensed under the Apache License, Version 2.0 (the \"License\");\r\n * you may not use this file except in compliance with the License.\r\n * You may obtain a copy of the License at\r\n *\r\n * http://www.apache.org/licenses/LICENSE-2.0\r\n *\r\n * Unless required by applicable law or agreed to in writing, software\r\n * distributed under the License is distributed on an \"AS IS\" BASIS,\r\n * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\r\n * See the License for the specific language governing permissions and\r\n * limitations under the License.\r\n */\r\n\r\npackage kotlin.reflect\r\n\r\n/**\r\n * Represents a parameter passed to a function or a property getter/setter,\r\n * including `this` and extension receiver parameters.\r\n */\r\npublic interface KParameter : KAnnotatedElement {\r\n /**\r\n * 0-based index of this parameter in the parameter list of its containing callable.\r\n */\r\n public val index: Int\r\n\r\n /**\r\n * Name of this parameter as it was declared in the source code,\r\n * or `null` if the parameter has no name or its name is not available at runtime.\r\n * Examples of nameless parameters include `this` instance for member functions,\r\n * extension receiver for extension functions or properties, parameters of Java methods\r\n * compiled without the debug information, and others.\r\n */\r\n public val name: String?\r\n\r\n /**\r\n * Type of this parameter. For a `vararg` parameter, this is the type of the corresponding array,\r\n * not the individual element.\r\n */\r\n public val type: KType\r\n\r\n /**\r\n * Kind of this parameter.\r\n */\r\n public val kind: Kind\r\n\r\n /**\r\n * Kind represents a particular position of the parameter declaration in the source code,\r\n * such as an instance, an extension receiver parameter or a value parameter.\r\n */\r\n public enum class Kind {\r\n /** Instance required to make a call to the member, or an outer class instance for an inner class constructor. */\r\n INSTANCE,\r\n\r\n /** Extension receiver of an extension function or property. */\r\n EXTENSION_RECEIVER,\r\n\r\n /** Ordinary named value parameter. */\r\n VALUE,\r\n }\r\n\r\n /**\r\n * `true` if this parameter is optional and can be omitted when making a call via [KCallable.callBy], or `false` otherwise.\r\n *\r\n * A parameter is optional in any of the two cases:\r\n * 1. The default value is provided at the declaration of this parameter.\r\n * 2. The parameter is declared in a member function and one of the corresponding parameters in the super functions is optional.\r\n */\r\n public val isOptional: Boolean\r\n\r\n /**\r\n * `true` if this parameter is `vararg`.\r\n * See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/functions.html#variable-number-of-arguments-varargs)\r\n * for more information.\r\n */\r\n @SinceKotlin(\"1.1\")\r\n public val isVararg: Boolean\r\n}\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.reflect\r\n\r\n/**\r\n * Represents a type. Type is usually either a class with optional type arguments,\r\n * or a type parameter of some declaration, plus nullability.\r\n */\r\npublic interface KType : KAnnotatedElement {\r\n /**\r\n * The declaration of the classifier used in this type.\r\n * For example, in the type `List<String>` the classifier would be the [KClass] instance for [List].\r\n *\r\n * Returns `null` if this type is not denotable in Kotlin, for example if it is an intersection type.\r\n */\r\n @SinceKotlin(\"1.1\")\r\n public val classifier: KClassifier?\r\n\r\n /**\r\n * Type arguments passed for the parameters of the classifier in this type.\r\n * For example, in the type `Array<out Number>` the only type

argument is `out Number`.\r\n *\r\n * In case this type is based on an inner class, the returned list contains the type arguments provided for the innermost class first,\r\n * then its outer class, and so on.\r\n * For example, in the type `Outer<A, B>.Inner<C, D>` the returned list is `[C, D, A, B]`.\r\n */\r\n @SinceKotlin(\"1.1\")\r\n public val arguments: List<KTypeProjection>\r\n\r\n /**\r\n * `true` if this type was marked nullable in the source code.\r\n *\r\n * For Kotlin types, it means that `null` value is allowed to be represented by this type.\r\n * In practice it means that the type was declared with a question mark at the end.\r\n * For non-Kotlin types, it means the type or the symbol which was declared with this type\r\n * is annotated with a runtime-retained nullability annotation such as [javax.annotation.Nullable].\r\n *\r\n * Note that even if [isMarkedNullable] is false, values of the type can still be `null`.\r\n * This may happen if it is a type of the type parameter with a nullable upper bound:\r\n *\r\n * ```\r\n * fun <T> foo(t: T) {\r\n * // isMarkedNullable == false for t's type, but t can be null here when T = \"Any?\"\r\n * }\r\n * ```\r\n */\r\n public val isMarkedNullable: Boolean\r\n}\r\n\r\n/**\r\n * Represents a type projection. Type projection is usually the argument to another type in a type usage.\r\n * For example, in the type `Array<out Number>`, `out Number` is the covariant projection of the type represented by the class `Number`.\r\n *\r\n * Type projection is either the star projection, or an entity consisting of a specific type plus optional variance.\r\n *\r\n * See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/generics.html#type-projections)\r\n * for more information.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic data class KTypeProjection constructor(\r\n /**\r\n * The use-site variance specified in the projection, or `null` if this is a star projection.\r\n */\r\n public val variance: KVariance?,\r\n /**\r\n * The type specified in the projection, or `null` if this is a star projection.\r\n */\r\n public val type: KType?\r\n) {\r\n public companion object {\r\n /**\r\n * Star projection, denoted by the `*` character.\r\n * For example, in the type `KClass<*>`, `*` is the star projection.\r\n * See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/generics.html#star-projections)\r\n * for more information.\r\n */\r\n public val STAR: KTypeProjection = KTypeProjection(null, null)\r\n\r\n /**\r\n * Creates an invariant projection of a given type. Invariant projection is just the type itself,\r\n * without any use-site variance modifiers applied to it.\r\n * For example, in the type `Set<String>`, `String` is an invariant projection of the type represented by the class `String`.\r\n */\r\n public fun invariant(type: KType): KTypeProjection =\r\n KTypeProjection(KVariance.INVARIANT, type)\r\n\r\n /**\r\n * Creates a contravariant projection of a given type, denoted by the `in` modifier applied to a type.\r\n * For example, in the type `MutableList<in Number>`, `in Number` is a contravariant projection of the type of class `Number`.\r\n */\r\n public fun contravariant(type: KType): KTypeProjection =\r\n KTypeProjection(KVariance.IN, type)\r\n\r\n /**\r\n * Creates a covariant projection of a given type, denoted by the `out` modifier applied to a type.\r\n * For example, in the type `Array<out Number>`, `out Number` is a covariant projection of the type of class `Number`.\r\n */\r\n public fun covariant(type: KType): KTypeProjection =\r\n KTypeProjection(KVariance.OUT, type)\r\n }\r\n}\r\n","/*\r\n * Copyright 2010-2016 JetBrains s.r.o.\r\n *\r\n * Licensed under the Apache License, Version 2.0 (the \"License\");\r\n * you may not use this file except in compliance with the License.\r\n * You may obtain a copy of the License at\r\n *\r\n * http://www.apache.org/licenses/LICENSE-2.0\r\n *\r\n * Unless required by applicable law or agreed to in writing, software\r\n * distributed under the License is distributed on an \"AS IS\" BASIS,\r\n * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\r\n * See the License for the specific language governing permissions and\r\n * limitations under the License.\r\n */\r\n\r\npackage kotlin.reflect\r\n\r\n/**\r\n * Represents variance applied to a type parameter on the declaration site (*declaration-site variance*),\r\n * or to a type in a projection (*use-site variance*).\r\n *\r\n * See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/generics.html#variance)\r\n * for more information.\r\n *\r\n * @see [KTypeParameter.variance]\r\n * @see [KTypeProjection]\r\n */\r\n@SinceKotlin(\"1.1\")\r\nenum class KVariance {\r\n /**\r\n * The affected type parameter or type is *invariant*, which means it has no variance applied to it.\r\n */\r\n INVARIANT,\r\n\r\n /**\r\n * The affected type parameter or type is *contravariant*. Denoted by the `in` modifier in the source code.\r\n */\r\n IN,\r\n\r\n /**\r\n * The affected type parameter or type is *covariant*. Denoted by the `out` modifier in the source code.\r\n */\r\n

OUT,\r\n}\r\n","/*\r\n * Copyright 2010-2016 JetBrains s.r.o.\r\n *\r\n * Licensed under the Apache License, Version 2.0 (the \"License\");\r\n * you may not use this file except in compliance with the License.\r\n * You may obtain a copy of the License at\r\n *\r\n * http://www.apache.org/licenses/LICENSE-2.0\r\n *\r\n * Unless required by applicable law or agreed to in writing, software\r\n * distributed under the License is distributed on an \"AS IS\" BASIS,\r\n * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\r\n * See the License for the specific language governing permissions and\r\n * limitations under the License.\r\n */\r\n\r\npackage kotlin.reflect\r\n\r\n/**\r\n * Visibility is an aspect of a Kotlin declaration regulating where that declaration is accessible in the source code.\r\n * Visibility can be changed with one of the following modifiers: `public`, `protected`, `internal`, `private`.\r\n *\r\n * Note that some Java visibilities such as package-private and protected (which also gives access to items from the same package)\r\n * cannot be represented in Kotlin, so there's no [KVisibility] value corresponding to them.\r\n *\r\n * See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/visibility-modifiers.html)\r\n * for more information.\r\n */\r\n@SinceKotlin(\"1.1\")\r\nenum class KVisibility {\r\n   /**\r\n   * Visibility of declarations marked with the `public` modifier, or with no modifier at all.\r\n   */\r\n   PUBLIC,\r\n\r\n   /**\r\n   * Visibility of declarations marked with the `protected` modifier.\r\n   */\r\n   PROTECTED,\r\n\r\n   /**\r\n   * Visibility of declarations marked with the `internal` modifier.\r\n   */\r\n   INTERNAL,\r\n\r\n   /**\r\n   * Visibility of declarations marked with the `private` modifier.\r\n   */\r\n   PRIVATE,\r\n}\r\n","/*\r\n * Copyright 2010-2015 JetBrains s.r.o.\r\n *\r\n * Licensed under the Apache License, Version 2.0 (the \"License\");\r\n * you may not use this file except in compliance with the License.\r\n * You may obtain a copy of the License at\r\n *\r\n * http://www.apache.org/licenses/LICENSE-2.0\r\n *\r\n * Unless required by applicable law or agreed to in writing, software\r\n * distributed under the License is distributed on an \"AS IS\" BASIS,\r\n * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\r\n * See the License for the specific language governing permissions and\r\n * limitations under the License.\r\n */\r\n\r\npackage kotlin\r\n\r\n/**\r\n * The type with only one value: the `Unit` object. This type corresponds to the `void` type in Java.\r\n */\r\npublic object Unit {\r\n   override fun toString() = \"kotlin.Unit\"\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@JsName(\"arrayIterator\")\r\ninternal fun arrayIterator(array: dynamic, type: String?) = when (type) {\r\n   null -> {\r\n   val arr: Array<dynamic> = array\r\n   object : Iterator<dynamic> {\r\n   var index = 0\r\n   override fun hasNext() = index < arr.size\r\n   override fun next() = if (index < arr.size) arr[index++] else throw NoSuchElementException(\"$index\")\r\n   }\r\n   }\r\n   \"BooleanArray\" -> booleanArrayIterator(array)\r\n   \"ByteArray\" -> byteArrayIterator(array)\r\n   \"ShortArray\" -> shortArrayIterator(array)\r\n   \"CharArray\" -> charArrayIterator(array)\r\n   \"IntArray\" -> intArrayIterator(array)\r\n   \"LongArray\" -> longArrayIterator(array)\r\n   \"FloatArray\" -> floatArrayIterator(array)\r\n   \"DoubleArray\" -> doubleArrayIterator(array)\r\n   else -> throw IllegalStateException(\"Unsupported type argument for arrayIterator: $type\")\r\n}\r\n\r\n@JsName(\"booleanArrayIterator\")\r\ninternal fun booleanArrayIterator(array: BooleanArray) = object : BooleanIterator() {\r\n   var index = 0\r\n   override fun hasNext() = index < array.size\r\n   override fun nextBoolean() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\r\n}\r\n\r\n@JsName(\"byteArrayIterator\")\r\ninternal fun byteArrayIterator(array: ByteArray) = object : ByteIterator() {\r\n   var index = 0\r\n   override fun hasNext() = index < array.size\r\n   override fun nextByte() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\r\n}\r\n\r\n@JsName(\"shortArrayIterator\")\r\ninternal fun shortArrayIterator(array: ShortArray) = object : ShortIterator() {\r\n   var index = 0\r\n   override fun hasNext() = index < array.size\r\n   override fun nextShort() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\r\n}\r\n\r\n@JsName(\"charArrayIterator\")\r\ninternal fun charArrayIterator(array: CharArray) = object : CharIterator() {\r\n   var index = 0\r\n   override fun hasNext() = index < array.size\r\n   override fun nextChar() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\r\n}\r\n\r\n@JsName(\"intArrayIterator\")\r\ninternal fun

intArrayIterator(array: IntArray) = object : IntIterator() {\r\n   var index = 0\r\n   override fun hasNext() = index < array.size\r\n   override fun nextInt() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\r\n}\r\n\r\n@JsName(\"floatArrayIterator\")\r\ninternal fun floatArrayIterator(array: FloatArray) = object : FloatIterator() {\r\n   var index = 0\r\n   override fun hasNext() = index < array.size\r\n   override fun nextFloat() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\r\n}\r\n\r\n@JsName(\"doubleArrayIterator\")\r\ninternal fun doubleArrayIterator(array: DoubleArray) = object : DoubleIterator() {\r\n   var index = 0\r\n   override fun hasNext() = index < array.size\r\n   override fun nextDouble() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\r\n}\r\n\r\n@JsName(\"longArrayIterator\")\r\ninternal fun longArrayIterator(array: LongArray) = object : LongIterator() {\r\n   var index = 0\r\n   override fun hasNext() = index < array.size\r\n   override fun nextLong() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\r\n}\r\n\r\n@JsName(\"PropertyMetadata\")\r\ninternal class PropertyMetadata(@JsName(\"callableName\") val name: String)\r\n\r\n@JsName(\"noWhenBranchMatched\")\r\ninternal fun noWhenBranchMatched(): Nothing = throw NoWhenBranchMatchedException()\r\n\r\n@JsName(\"subSequence\")\r\ninternal fun subSequence(c: CharSequence, startIndex: Int, endIndex: Int): CharSequence {\r\n   if (c is String) {\r\n   return c.substring(startIndex, endIndex)\r\n   } else {\r\n   return c.asDynamic().`subSequence_vux9f0$`(startIndex, endIndex)\r\n   }\r\n}\r\n\r\n@JsName(\"captureStack\")\r\ninternal fun captureStack(baseClass: JsClass<in Throwable>, instance: Throwable) {\r\n   if (js(\"Error\").captureStackTrace) {\r\n   js(\"Error\").captureStackTrace(instance, instance::class.js);\r\n   } else {\r\n   instance.asDynamic().stack = js(\"new Error()\").stack;\r\n   }\r\n}\r\n\r\n@JsName(\"newThrowable\")\r\ninternal fun newThrowable(message: String?, cause: Throwable?): Throwable {\r\n   val throwable = js(\"new Error()\")\r\n   throwable.message = if (jsTypeOf(message) == \"undefined\") {\r\n   if (cause != null) cause.toString() else null\r\n   } else {\r\n   message\r\n   }\r\n   throwable.cause = cause\r\n   throwable.name = \"Throwable\"\r\n   return throwable\r\n}\r\n\r\n@JsName(\"BoxedChar\")\r\ninternal class BoxedChar(val c: Int) : Comparable<Int> {\r\n   override fun equals(other: Any?): Boolean {\r\n   return other is BoxedChar && c == other.c\r\n   }\r\n\r\n   override fun hashCode(): Int {\r\n   return c\r\n   }\r\n\r\n   override fun toString(): String {\r\n   return js(\"this.c\").unsafeCast<Char>().toString()\r\n   }\r\n\r\n   override fun compareTo(other: Int): Int {\r\n   return js(\"this.c - other\").unsafeCast<Int>()\r\n   }\r\n\r\n   @JsName(\"valueOf\")\r\n   public fun valueOf(): Int {\r\n   return c\r\n   }\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\ninternal inline fun <T> concat(args: Array<T>): T {\r\n   val typed = js(\"Array\")(args.size)\r\n   for (i in args.indices) {\r\n   val arr = args[i]\r\n   if (arr !is Array<*>) {\r\n   typed[i] = js(\"[]\").slice.call(arr)\r\n   } else {\r\n   typed[i] = arr\r\n   }\r\n   }\r\n   return js(\"[]\").concat.apply(js(\"[]\"), typed);\r\n}\r\n\r\n/** Concat regular Array's and TypedArray's into an Array.\r\n */\r\n@PublishedApi\r\n@JsName(\"arrayConcat\")\r\n@Suppress(\"UNUSED_PARAMETER\")\r\ninternal fun <T> arrayConcat(a: T, b: T): T {\r\n   return concat(js(\"arguments\"))\r\n}\r\n\r\n/** Concat primitive arrays. Main use: prepare vararg arguments.\r\n * For compatibility with 1.1.0 the arguments may be a mixture of Array's and TypedArray's.\r\n *\r\n * If the first argument is TypedArray (Byte-, Short-, Char-, Int-, Float-, and DoubleArray) returns a TypedArray, otherwise an Array.\r\n * If the first argument has the $type$ property (Boolean-, Char-, and LongArray) copy its value to result.$type$.\r\n * If the first argument is a regular Array without the $type$ property default to arrayConcat.\r\n */\r\n@PublishedApi\r\n@JsName(\"primitiveArrayConcat\")\r\n@Suppress(\"UNUSED_PARAMETER\")\r\ninternal fun <T> primitiveArrayConcat(a: T, b: T): T {\r\n   val args: Array<T> = js(\"arguments\")\r\n   if (a is Array<*> && a.asDynamic().`$type$` === undefined) {\r\n   return concat(args)\r\n   } else {\r\n   var size = 0\r\n   for (i in args.indices) {\r\n   size += args[i].asDynamic().length as Int\r\n   }\r\n   val result = js(\"new a.constructor(size)\")\r\n   kotlin.copyArrayType(a, result)\r\n   size = 0\r\n   for (i in args.indices) {\r\n   val arr = args[i].asDynamic()\r\n   for (j in 0 until arr.length) {\r\n   result[size++] = arr[j]\r\n   }\r\n   }\r\n   return result\r\n   }\r\n}\r\n\r\n@JsName(\"booleanArrayOf\")\r\ninternal fun booleanArrayOf() = withType(\"BooleanArray\", js(\"[].slice.call(arguments)\"))\r\n\r\n@JsName(\"charArrayOf\")

// The arguments have to be slice'd here because of Rhino (see KT-16974)\r\ninternal fun charArrayOf() = withType(\"CharArray\", js(\"new Uint16Array([].slice.call(arguments))\"))\r\n\r\n@JsName(\"longArrayOf\")\r\ninternal fun longArrayOf() = withType(\"LongArray\", js(\"[].slice.call(arguments)\"))\r\n\r\n@JsName(\"withType\")\r\n@kotlin.internal.InlineOnly\r\ninternal inline fun withType(type: String, array: dynamic): dynamic {\r\n array.`$type$` = type\r\n return array\r\n}","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.js\r\n\r\n/**\r\n * Function corresponding to JavaScript's `typeof` operator\r\n */\r\n@kotlin.internal.InlineOnly\r\n@Suppress(\"UNUSED_PARAMETER\")\r\npublic inline fun jsTypeOf(a: Any?): String = js(\"typeof a\")\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:Suppress(\"UNUSED_PARAMETER\", \"NOTHING_TO_INLINE\")\r\n\r\npackage kotlin\r\n\r\n/**\r\n * Returns an empty array of the specified type [T].\r\n */\r\npublic inline fun <T> emptyArray(): Array<T> = js(\"[]\")\r\n\r\n@library\r\npublic fun <T> arrayOf(vararg elements: T): Array<T> = definedExternally\r\n\r\n@library\r\npublic fun doubleArrayOf(vararg elements: Double): DoubleArray = definedExternally\r\n\r\n@library\r\npublic fun floatArrayOf(vararg elements: Float): FloatArray = definedExternally\r\n\r\n@library\r\npublic fun longArrayOf(vararg elements: Long): LongArray = definedExternally\r\n\r\n@library\r\npublic fun intArrayOf(vararg elements: Int): IntArray = definedExternally\r\n\r\n@library\r\npublic fun charArrayOf(vararg elements: Char): CharArray = definedExternally\r\n\r\n@library\r\npublic fun shortArrayOf(vararg elements: Short): ShortArray = definedExternally\r\n\r\n@library\r\npublic fun byteArrayOf(vararg elements: Byte): ByteArray = definedExternally\r\n\r\n@library\r\npublic fun booleanArrayOf(vararg elements: Boolean): BooleanArray = definedExternally\r\n\r\n/**\r\n * Creates a new instance of the [Lazy] that uses the specified initialization function [initializer].\r\n */\r\npublic actual fun <T> lazy(initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)\r\n\r\n/**\r\n * Creates a new instance of the [Lazy] that uses the specified initialization function [initializer].\r\n *\r\n * The [mode] parameter is ignored. */\r\npublic actual fun <T> lazy(mode: LazyThreadSafetyMode, initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)\r\n\r\n/**\r\n * Creates a new instance of the [Lazy] that uses the specified initialization function [initializer].\r\n *\r\n * The [lock] parameter is ignored.\r\n */\r\npublic actual fun <T> lazy(lock: Any?, initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)\r\n\r\n\r\n\r\ninternal fun fillFrom(src: dynamic, dst: dynamic): dynamic {\r\n val srcLen: Int = src.length\r\n val dstLen: Int = dst.length\r\n var index: Int = 0\r\n while (index < srcLen && index < dstLen) dst[index] = src[index++]\r\n return dst\r\n}\r\n\r\n\r\n\r\ninternal fun arrayCopyResize(source: dynamic, newSize: Int, defaultValue: Any?): dynamic {\r\n val result = source.slice(0, newSize)\r\n copyArrayType(source, result)\r\n var index: Int = source.length\r\n if (newSize > index) {\r\n result.length = newSize\r\n while (index < newSize) result[index++] = defaultValue\r\n }\r\n return result\r\n}\r\n\r\n\r\ninternal fun <T> arrayPlusCollection(array: dynamic, collection: Collection<T>): dynamic {\r\n val result = array.slice()\r\n result.length += collection.size\r\n copyArrayType(array, result)\r\n var index: Int = array.length\r\n for (element in collection) result[index++] = element\r\n return result\r\n}\r\n\r\n\r\ninternal fun <T> fillFromCollection(dst: dynamic, startIndex: Int, collection: Collection<T>): dynamic {\r\n var index = startIndex\r\n for (element in collection) dst[index++] = element\r\n return dst\r\n}\r\n\r\n\r\ninternal inline fun copyArrayType(from: dynamic, to: dynamic) {\r\n if (from.`$type$` !== undefined) {\r\n to.`$type$` = from.`$type$`\r\n }\r\n}\r\n\r\n\r\ninternal inline fun jsIsType(obj: dynamic, jsClass: dynamic) = js(\"Kotlin\").isType(obj, jsClass)","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\npackage kotlin.coroutines\r\n\r\n\r\nimport kotlin.coroutines.intrinsics.COROUTINE_SUSPENDED\r\n\r\n\r\n@SinceKotlin(\"1.3\")\r\n@JsName(\"CoroutineImpl\")\r\ninternal abstract class CoroutineImpl(private val resultContinuation: Continuation<Any?>) :

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Continuation<Any?> {\r\n    protected var state = 0\r\n    protected var exceptionState = 0\r\n    protected var result: Any? = null\r\n    protected var exception: Throwable? = null\r\n    protected var finallyPath: Array<Int>? = null\r\n\r\n    public override val context: CoroutineContext = resultContinuation.context\r\n\r\n    private var intercepted_: Continuation<Any?>? = null\r\n\r\n    public fun intercepted(): Continuation<Any?> =\r\n        intercepted_\r\n            ?: (context[ContinuationInterceptor]?.interceptContinuation(this) ?: this)\r\n                .also { intercepted_ = it }\r\n\r\n    override fun resumeWith(result: Result<Any?>) {\r\n        var current = this\r\n        var currentResult: Any? = result.getOrNull()\r\n        var currentException: Throwable? = result.exceptionOrNull()\r\n\r\n        // This loop unrolls recursion in current.resumeWith(param) to make saner and shorter stack traces on resume\r\n        while (true) {\r\n            with(current) {\r\n                val completion = resultContinuation\r\n\r\n                // Set result and exception fields in the current continuation\r\n                if (currentException == null) {\r\n                    this.result = currentResult\r\n                } else {\r\n                    state = exceptionState\r\n                    exception = currentException\r\n                }\r\n\r\n                try {\r\n                    val outcome = doResume()\r\n                    if (outcome === COROUTINE_SUSPENDED) return\r\n                    currentResult = outcome\r\n                    currentException = null\r\n                } catch (exception: dynamic) { // Catch all exceptions\r\n                    currentResult = null\r\n                    currentException = exception.unsafeCast<Throwable>()\r\n                }\r\n\r\n                releaseIntercepted() // this state machine instance is terminating\r\n\r\n                if (completion is CoroutineImpl) {\r\n                    // unrolling recursion via loop\r\n                    current = completion\r\n                } else {\r\n                    // top-level completion reached -- invoke and return\r\n                    currentException?.let {\r\n                        completion.resumeWithException(it)\r\n                    } ?: completion.resume(currentResult)\r\n                    return\r\n                }\r\n            }\r\n        }\r\n    }\r\n\r\n    private fun releaseIntercepted() {\r\n        val intercepted = intercepted_\r\n        if (intercepted != null && intercepted !== this) {\r\n            context[ContinuationInterceptor]!!.releaseInterceptedContinuation(intercepted)\r\n        }\r\n        this.intercepted_ = CompletedContinuation // just in case\r\n    }\r\n\r\n    protected abstract fun doResume(): Any?\r\n}\r\n\r\ninternal object CompletedContinuation : Continuation<Any?> {\r\n    override val context: CoroutineContext\r\n        get() = error(\"This continuation is already complete\")\r\n\r\n    override fun resumeWith(result: Result<Any?>) {\r\n        error(\"This continuation is already complete\")\r\n    }\r\n\r\n    override fun toString(): String = \"This continuation is already complete\"\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:Suppress(\"UNCHECKED_CAST\", \"RedundantVisibilityModifier\")\r\n\r\npackage kotlin\r\n\r\nimport kotlin.contracts.*\r\nimport kotlin.internal.InlineOnly\r\nimport kotlin.jvm.JvmField\r\n\r\n/**\r\n * A discriminated union that encapsulates successful outcome with a value of type [T]\r\n * or a failure with an arbitrary [Throwable] exception.\r\n */\r\n@Suppress(\"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS\")\r\n@SinceKotlin(\"1.3\")\r\npublic inline class Result<out T> @PublishedApi internal constructor(\r\n    @PublishedApi\r\n    internal val value: Any?\r\n) : Serializable {\r\n    // discovery\r\n\r\n    /**\r\n     * Returns `true` if this instance represents successful outcome.\r\n     * In this case [isFailure] returns `false`.\r\n     */\r\n    public val isSuccess: Boolean get() = value !is Failure\r\n\r\n    /**\r\n     * Returns `true` if this instance represents failed outcome.\r\n     * In this case [isSuccess] returns `false`.\r\n     */\r\n    public val isFailure: Boolean get() = value is Failure\r\n\r\n    // value & exception retrieval\r\n\r\n    /**\r\n     * Returns the encapsulated value if this instance represents [success][Result.isSuccess] or `null`\r\n     * if it is [failure][Result.isFailure].\r\n     *\r\n     * This function is shorthand for `getOrElse { null }` (see [getOrElse]) or\r\n     * `fold(onSuccess = { it }, onFailure = { null })` (see [fold]).\r\n     */\r\n    @InlineOnly\r\n    public inline fun getOrNull(): T? =\r\n        when {\r\n            isFailure -> null\r\n            else -> value as T\r\n        }\r\n\r\n    /**\r\n     * Returns the encapsulated exception if this instance represents [failure][isFailure] or `null`\r\n     * if it is [success][isSuccess].\r\n     *\r\n     * This function is shorthand for `fold(onSuccess = { null }, onFailure = { it })` (see [fold]).\r\n     */\r\n    public fun exceptionOrNull(): Throwable? =\r\n        when (value) {\r\n            is Failure -> value.exception\r\n            else -> null\r\n        }\r\n\r\n    /**\r\n     * Returns a string `Success(v)` if this instance represents [success][Result.isSuccess]\r\n     * where `v` is
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a string representation of the value or a string `Failure(x)` if\r\n * it is [failure][isFailure] where `x` is a string representation of the exception.\r\n */\r\n public override fun toString(): String =\r\n when (value) {\r\n is Failure -> value.toString() // \"Failure($exception)\"\r\n else -> \"Success($value)\"\r\n }\r\n\r\n // companion with constructors\r\n\r\n /**\r\n * Companion object for [Result] class that contains its constructor functions\r\n * [success] and [failure].\r\n */\r\n public companion object {\r\n /**\r\n * Returns an instance that encapsulates the given [value] as successful value.\r\n */\r\n @InlineOnly\r\n public inline fun <T> success(value: T): Result<T> =\r\n Result(value)\r\n\r\n /**\r\n * Returns an instance that encapsulates the given [exception] as failure.\r\n */\r\n @InlineOnly\r\n public inline fun <T> failure(exception: Throwable): Result<T> =\r\n Result(createFailure(exception))\r\n }\r\n\r\n internal class Failure(\r\n @JvmField\r\n val exception: Throwable\r\n) : Serializable {\r\n override fun equals(other: Any?): Boolean = other is Failure && exception == other.exception\r\n override fun hashCode(): Int = exception.hashCode()\r\n override fun toString(): String = \"Failure($exception)\"\r\n }\r\n}\r\n\r\n/**\r\n * Creates an instance of internal marker [Result.Failure] class to\r\n * make sure that this class is not exposed in ABI.\r\n */\r\n@PublishedApi\r\n@SinceKotlin(\"1.3\")\r\ninternal fun createFailure(exception: Throwable): Any =\r\n Result.Failure(exception)\r\n\r\n/**\r\n * Throws exception if the result is failure. This internal function minimizes\r\n * inlined bytecode for [getOrThrow] and makes sure that in the future we can\r\n * add some exception-augmenting logic here (if needed).\r\n */\r\n@PublishedApi\r\n@SinceKotlin(\"1.3\")\r\ninternal fun Result<*>.throwOnFailure() {\r\n if (value is Result.Failure) throw value.exception\r\n}\r\n\r\n/**\r\n * Calls the specified function [block] and returns its encapsulated result if invocation was successful,\r\n * catching and encapsulating any thrown exception as a failure.\r\n */\r\n@InlineOnly\r\n@SinceKotlin(\"1.3\")\r\npublic inline fun <R> runCatching(block: () -> R): Result<R> {\r\n return try {\r\n Result.success(block())\r\n } catch (e: Throwable) {\r\n Result.failure(e)\r\n }\r\n}\r\n\r\n/**\r\n * Calls the specified function [block] with `this` value as its receiver and returns its encapsulated result\r\n * if invocation was successful, catching and encapsulating any thrown exception as a failure.\r\n */\r\n@InlineOnly\r\n@SinceKotlin(\"1.3\")\r\npublic inline fun <T, R> T.runCatching(block: T.() -> R): Result<R> {\r\n return try {\r\n Result.success(block())\r\n } catch (e: Throwable) {\r\n Result.failure(e)\r\n }\r\n}\r\n\r\n// -- extensions ---\r\n\r\n/**\r\n * Returns the encapsulated value if this instance represents [success][Result.isSuccess] or throws the encapsulated exception\r\n * if it is [failure][Result.isFailure].\r\n *\r\n * This function is shorthand for `getOrElse { throw it }` (see [getOrElse]).\r\n */\r\n@InlineOnly\r\n@SinceKotlin(\"1.3\")\r\npublic inline fun <T> Result<T>.getOrThrow(): T {\r\n throwOnFailure()\r\n return value as T\r\n}\r\n\r\n/**\r\n * Returns the encapsulated value if this instance represents [success][Result.isSuccess] or the\r\n * result of [onFailure] function for encapsulated exception if it is [failure][Result.isFailure].\r\n *\r\n * Note, that an exception thrown by [onFailure] function is rethrown by this function.\r\n *\r\n * This function is shorthand for `fold(onSuccess = { it }, onFailure = onFailure)` (see [fold]).\r\n */\r\n@InlineOnly\r\n@SinceKotlin(\"1.3\")\r\npublic inline fun <R, T : R> Result<T>.getOrElse(onFailure: (exception: Throwable) -> R): R {\r\n contract {\r\n callsInPlace(onFailure, InvocationKind.AT_MOST_ONCE)\r\n }\r\n return when (val exception = exceptionOrNull()) {\r\n null -> value as T\r\n else -> onFailure(exception)\r\n }\r\n}\r\n\r\n/**\r\n * Returns the encapsulated value if this instance represents [success][Result.isSuccess] or the\r\n * [defaultValue] if it is [failure][Result.isFailure].\r\n *\r\n * This function is shorthand for `getOrElse { defaultValue }` (see [getOrElse]).\r\n */\r\n@InlineOnly\r\n@SinceKotlin(\"1.3\")\r\npublic inline fun <R, T : R> Result<T>.getOrDefault(defaultValue: R): R {\r\n if (isFailure) return defaultValue\r\n return value as T\r\n}\r\n\r\n/**\r\n * Returns the the result of [onSuccess] for encapsulated value if this instance represents [success][Result.isSuccess]\r\n * or the result of [onFailure] function for encapsulated exception if it is [failure][Result.isFailure].\r\n *\r\n * Note, that an exception thrown by [onSuccess] or by [onFailure] function is rethrown by this function.\r\n */\r\n@InlineOnly\r\n@SinceKotlin(\"1.3\")\r\npublic inline fun <R, T> Result<T>.fold(\r\n onSuccess: (value: T) -> R,\r\n onFailure: (exception: Throwable) -> R\r\n): R {\r\n contract {\r\n callsInPlace(onSuccess, InvocationKind.AT_MOST_ONCE)\r\n callsInPlace(onFailure, InvocationKind.AT_MOST_ONCE)\r\n }\r\n

return when (val exception = exceptionOrNull()) {\r\n null -> onSuccess(value as T)\r\n else -> onFailure(exception)\r\n }\r\n}\r\n\r\n// transformation\r\n\r\n/**\r\n * Returns the encapsulated result of the given [transform] function applied to encapsulated value\r\n * if this instance represents [success][Result.isSuccess] or the\r\n * original encapsulated exception if it is [failure][Result.isFailure].\r\n *\r\n * Note, that an exception thrown by [transform] function is rethrown by this function.\r\n * See [mapCatching] for an alternative that encapsulates exceptions.\r\n */\r\n@InlineOnly\r\n@SinceKotlin(\"1.3\")\r\npublic inline fun <R, T> Result<T>.map(transform: (value: T) -> R): Result<R> {\r\n contract {\r\n callsInPlace(transform, InvocationKind.AT_MOST_ONCE)\r\n }\r\n return when {\r\n isSuccess -> Result.success(transform(value as T))\r\n else -> Result(value)\r\n }\r\n}\r\n\r\n/**\r\n * Returns the encapsulated result of the given [transform] function applied to encapsulated value\r\n * if this instance represents [success][Result.isSuccess] or the\r\n * original encapsulated exception if it is [failure][Result.isFailure].\r\n *\r\n * Any exception thrown by [transform] function is caught, encapsulated as a failure and returned by this function.\r\n * See [map] for an alternative that rethrows exceptions.\r\n */\r\n@InlineOnly\r\n@SinceKotlin(\"1.3\")\r\npublic inline fun <R, T> Result<T>.mapCatching(transform: (value: T) -> R): Result<R> {\r\n return when {\r\n isSuccess -> runCatching { transform(value as T) }\r\n else -> Result(value)\r\n }\r\n}\r\n\r\n/**\r\n * Returns the encapsulated result of the given [transform] function applied to encapsulated exception\r\n * if this instance represents [failure][Result.isFailure] or the\r\n * original encapsulated value if it is [success][Result.isSuccess].\r\n *\r\n * Note, that an exception thrown by [transform] function is rethrown by this function.\r\n * See [recoverCatching] for an alternative that encapsulates exceptions.\r\n */\r\n@InlineOnly\r\n@SinceKotlin(\"1.3\")\r\npublic inline fun <R, T : R> Result<T>.recover(transform: (exception: Throwable) -> R): Result<R> {\r\n contract {\r\n callsInPlace(transform, InvocationKind.AT_MOST_ONCE)\r\n }\r\n return when (val exception = exceptionOrNull()) {\r\n null -> this\r\n else -> Result.success(transform(exception))\r\n }\r\n}\r\n\r\n/**\r\n * Returns the encapsulated result of the given [transform] function applied to encapsulated exception\r\n * if this instance represents [failure][Result.isFailure] or the\r\n * original encapsulated value if it is [success][Result.isSuccess].\r\n *\r\n * Any exception thrown by [transform] function is caught, encapsulated as a failure and returned by this function.\r\n * See [recover] for an alternative that rethrows exceptions.\r\n */\r\n@InlineOnly\r\n@SinceKotlin(\"1.3\")\r\npublic inline fun <R, T : R> Result<T>.recoverCatching(transform: (exception: Throwable) -> R): Result<R> {\r\n val value = value // workaround for inline classes BE bug\r\n return when (val exception = exceptionOrNull()) {\r\n null -> this\r\n else -> runCatching { transform(exception) }\r\n }\r\n}\r\n\r\n// \"peek\" onto value/exception and pipe\r\n\r\n/**\r\n * Performs the given [action] on encapsulated exception if this instance represents [failure][Result.isFailure].\r\n * Returns the original `Result` unchanged.\r\n */\r\n@InlineOnly\r\n@SinceKotlin(\"1.3\")\r\npublic inline fun <T> Result<T>.onFailure(action: (exception: Throwable) -> Unit): Result<T> {\r\n contract {\r\n callsInPlace(action, InvocationKind.AT_MOST_ONCE)\r\n }\r\n exceptionOrNull()?.let { action(it) }\r\n return this\r\n}\r\n\r\n/**\r\n * Performs the given [action] on encapsulated value if this instance represents [success][Result.isSuccess].\r\n * Returns the original `Result` unchanged.\r\n */\r\n@InlineOnly\r\n@SinceKotlin(\"1.3\")\r\npublic inline fun <T> Result<T>.onSuccess(action: (value: T) -> Unit): Result<T> {\r\n contract {\r\n callsInPlace(action, InvocationKind.AT_MOST_ONCE)\r\n }\r\n if (isSuccess) action(value as T)\r\n return this\r\n}\r\n\r\n// ----------\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.coroutines\r\n\r\nimport kotlin.coroutines.intrinsics.*\r\nimport kotlin.internal.InlineOnly\r\n\r\n/**\r\n * Interface representing a continuation after a suspension point that returns a value of type `T`.\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic interface Continuation<in T> {\r\n /**\r\n * The context of the coroutine that corresponds to this continuation.\r\n */\r\n public val context: CoroutineContext\r\n\r\n /**\r\n * Resumes the execution of the corresponding coroutine passing a successful or failed [result] as the\r\n * return value of the last suspension point.\r\n */\r\n public fun resumeWith(result: Result<T>)\r\n}\r\n\r\n/**\r\n *

Classes and interfaces marked with this annotation are restricted when used as receivers for extension\r\n * `suspend` functions. These `suspend` extensions can only invoke other member or extension `suspend` functions on this particular\r\n * receiver and are restricted from calling arbitrary suspension functions.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@Target(AnnotationTarget.CLASS)\r\n@Retention(AnnotationRetention.BINARY)\r\npublic annotation class RestrictsSuspension\r\n\r\n/**\r\n * Resumes the execution of the corresponding coroutine passing [value] as the return value of the last suspension point.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@InlineOnly\r\npublic inline fun <T> Continuation<T>.resume(value: T): Unit =\r\n resumeWith(Result.success(value))\r\n\r\n/**\r\n * Resumes the execution of the corresponding coroutine so that the [exception] is re-thrown right after the\r\n * last suspension point.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@InlineOnly\r\npublic inline fun <T> Continuation<T>.resumeWithException(exception: Throwable): Unit =\r\n resumeWith(Result.failure(exception))\r\n\r\n\r\n/**\r\n * Creates a [Continuation] instance with the given [context] and implementation of [resumeWith] method.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@InlineOnly\r\npublic inline fun <T> Continuation(\r\n   context: CoroutineContext,\r\n   crossinline resumeWith: (Result<T>) -> Unit\r\n): Continuation<T> =\r\n   object : Continuation<T> {\r\n   override val context: CoroutineContext\r\n   get() = context\r\n\r\n   override fun resumeWith(result: Result<T>) =\r\n   resumeWith(result)\r\n   }\r\n\r\n/**\r\n * Creates a coroutine without a receiver and with result type [T].\r\n * This function creates a new, fresh instance of suspendable computation every time it is invoked.\r\n *\r\n * To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation] instance.\r\n * The [completion] continuation is invoked when the coroutine completes with a result or an exception.\r\n * Subsequent invocation of any resume function on the resulting continuation will produce an [IllegalStateException].\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@Suppress(\"UNCHECKED_CAST\")\r\npublic fun <T> (suspend () -> T).createCoroutine(\r\n   completion: Continuation<T>\r\n): Continuation<Unit> =\r\n SafeContinuation(createCoroutineUnintercepted(completion).intercepted(), COROUTINE_SUSPENDED)\r\n\r\n/**\r\n * Creates a coroutine with receiver type [R] and result type [T].\r\n * This function creates a new, fresh instance of suspendable computation every time it is invoked.\r\n *\r\n * To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation] instance.\r\n * The [completion] continuation is invoked when the coroutine completes with a result or an exception.\r\n * Subsequent invocation of any resume function on the resulting continuation will produce an [IllegalStateException].\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@Suppress(\"UNCHECKED_CAST\")\r\npublic fun <R, T> (suspend R.() -> T).createCoroutine(\r\n   receiver: R,\r\n   completion: Continuation<T>\r\n): Continuation<Unit> =\r\n SafeContinuation(createCoroutineUnintercepted(receiver, completion).intercepted(), COROUTINE_SUSPENDED)\r\n\r\n/**\r\n * Starts a coroutine without a receiver and with result type [T].\r\n * This function creates and starts a new, fresh instance of suspendable computation every time it is invoked.\r\n * The [completion] continuation is invoked when the coroutine completes with a result or an exception.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@Suppress(\"UNCHECKED_CAST\")\r\npublic fun <T> (suspend () -> T).startCoroutine(\r\n   completion: Continuation<T>\r\n) {\r\n createCoroutineUnintercepted(completion).intercepted().resume(Unit)\r\n}\r\n\r\n/**\r\n * Starts a coroutine with receiver type [R] and result type [T].\r\n * This function creates and starts a new, fresh instance of suspendable computation every time it is invoked.\r\n * The [completion] continuation is invoked when the coroutine completes with a result or an exception.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@Suppress(\"UNCHECKED_CAST\")\r\npublic fun <R, T> (suspend R.() -> T).startCoroutine(\r\n   receiver: R,\r\n   completion: Continuation<T>\r\n) {\r\n createCoroutineUnintercepted(receiver, completion).intercepted().resume(Unit)\r\n}\r\n\r\n/**\r\n * Obtains the current continuation instance inside suspend functions and suspends\r\n * the currently running coroutine.\r\n *\r\n * In this function both [Continuation.resume] and [Continuation.resumeWithException] can be used either synchronously in\r\n * the same stack-frame where the suspension function is run or asynchronously later in the same thread or\r\n * from a different thread of execution. Subsequent invocation of any resume function will produce an [IllegalStateException].\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@InlineOnly\r\npublic suspend inline fun

<T> suspendCoroutine(crossinline block: (Continuation<T>) -> Unit): T =\r\n suspendCoroutineUninterceptedOrReturn { c: Continuation<T> ->\r\n val safe = SafeContinuation(c.intercepted())\r\n block(safe)\r\n safe.getOrThrow()\r\n }\r\n\r\n/**\r\n * Returns the context of the current coroutine.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@Suppress(\"WRONG_MODIFIER_TARGET\")\r\n@InlineOnly\r\npublic suspend inline val coroutineContext: CoroutineContext\r\n get() {\r\n throw NotImplementedError(\"Implemented as intrinsic\")\r\n }\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.coroutines.intrinsics\r\n\r\nimport kotlin.coroutines.*\r\nimport kotlin.internal.InlineOnly\r\n\r\n/**\r\n * Starts an unintercepted coroutine without a receiver and with result type [T] and executes it until its first suspension.\r\n * Returns the result of the coroutine or throws its exception if it does not suspend or [COROUTINE_SUSPENDED] if it suspends.\r\n * In the latter case, the [completion] continuation is invoked when the coroutine completes with a result or an exception.\r\n *\r\n * The coroutine is started directly in the invoker's thread without going through the [ContinuationInterceptor] that might\r\n * be present in the completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation\r\n * context is established.\r\n *\r\n * This function is designed to be used from inside of [suspendCoroutineUninterceptedOrReturn] to resume the execution of the suspended\r\n * coroutine using a reference to the suspending function.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@InlineOnly\r\npublic actual inline fun <T> (suspend () -> T).startCoroutineUninterceptedOrReturn(\r\n completion: Continuation<T>\r\n): Any? = this.asDynamic()(completion, false)\r\n\r\n/**\r\n * Starts an unintercepted coroutine with receiver type [R] and result type [T] and executes it until its first suspension.\r\n * Returns the result of the coroutine or throws its exception if it does not suspend or [COROUTINE_SUSPENDED] if it suspends.\r\n * In the latter case, the [completion] continuation is invoked when the coroutine completes with a result or an exception.\r\n *\r\n * The coroutine is started directly in the invoker's thread without going through the [ContinuationInterceptor] that might\r\n * be present in the completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation\r\n * context is established.\r\n *\r\n * This function is designed to be used from inside of [suspendCoroutineUninterceptedOrReturn] to resume the execution of the suspended\r\n * coroutine using a reference to the suspending function.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@InlineOnly\r\npublic actual inline fun <R, T> (suspend R.() -> T).startCoroutineUninterceptedOrReturn(\r\n receiver: R,\r\n completion: Continuation<T>\r\n): Any? = this.asDynamic()(receiver, completion, false)\r\n\r\n\r\n/**\r\n * Creates unintercepted coroutine without receiver and with result type [T].\r\n * This function creates a new, fresh instance of suspendable computation every time it is invoked.\r\n *\r\n * To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation] instance.\r\n * The [completion] continuation is invoked when coroutine completes with result or exception.\r\n *\r\n * This function returns unintercepted continuation.\r\n * Invocation of `resume(Unit)` starts coroutine immediately in the invoker's call stack without going through the\r\n * [ContinuationInterceptor] that might be present in the completion's [CoroutineContext].\r\n * It is the invoker's responsibility to ensure that a proper invocation context is established.\r\n * Note that [completion] of this function may get invoked in an arbitrary context.\r\n *\r\n * [Continuation.intercepted] can be used to acquire the intercepted continuation.\r\n * Invocation of `resume(Unit)` on intercepted continuation guarantees that execution of\r\n * both the coroutine and [completion] happens in the invocation context established by\r\n * [ContinuationInterceptor].\r\n *\r\n * Repeated invocation of any resume function on the resulting continuation corrupts the\r\n * state machine of the coroutine and may result in arbitrary behaviour or exception.\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic actual fun <T> (suspend () -> T).createCoroutineUnintercepted(\r\n completion: Continuation<T>\r\n): Continuation<Unit> =\r\n // Kotlin/JS suspend lambdas have an extra parameter `suspended`\r\n if (this.asDynamic().length == 2) {\r\n // When `suspended` is true the continuation is created, but not executed\r\n this.asDynamic()(completion, true)\r\n } else {\r\n createCoroutineFromSuspendFunction(completion) {\r\n this.asDynamic()(completion)\r\n }\r\n }\r\n\r\n/**\r\n * Creates unintercepted coroutine with receiver type [R] and result type [T].\r\n * This function creates a new, fresh instance of suspendable computation every time

it is invoked.\r\n *\r\n * To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation] instance.\r\n * The [completion] continuation is invoked when coroutine completes with result or exception.\r\n *\r\n * This function returns unintercepted continuation.\r\n * Invocation of `resume(Unit)` starts coroutine immediately in the invoker's call stack without going through the\r\n * [ContinuationInterceptor] that might be present in the completion's [CoroutineContext].\r\n * It is the invoker's responsibility to ensure that a proper invocation context is established.\r\n * Note that [completion] of this function may get invoked in an arbitrary context.\r\n *\r\n * [Continuation.intercepted] can be used to acquire the intercepted continuation.\r\n * Invocation of `resume(Unit)` on intercepted continuation guarantees that execution of\r\n * both the coroutine and [completion] happens in the invocation context established by\r\n * [ContinuationInterceptor].\r\n *\r\n * Repeated invocation of any resume function on the resulting continuation corrupts the\r\n * state machine of the coroutine and may result in arbitrary behaviour or exception.\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic actual fun <R, T> (suspend R.() -> T).createCoroutineUnintercepted(\r\n   receiver: R,\r\n   completion: Continuation<T>\r\n): Continuation<Unit> =\r\n   // Kotlin/JS suspend lambdas have an extra parameter `suspended`\r\n   if (this.asDynamic().length == 3) {\r\n   // When `suspended` is true the continuation is created, but not executed\r\n   this.asDynamic()(receiver, completion, true)\r\n   } else {\r\n   createCoroutineFromSuspendFunction(completion) {\r\n   this.asDynamic()(receiver, completion)\r\n   }\r\n   }\r\n\r\n/**\r\n * Intercepts this continuation with [ContinuationInterceptor].\r\n *\r\n * This function shall be used on the immediate result of [createCoroutineUnintercepted] or [suspendCoroutineUninterceptedOrReturn],\r\n * in which case it checks for [ContinuationInterceptor] in the continuation's [context][Continuation.context],\r\n * invokes [ContinuationInterceptor.interceptContinuation], caches and returns the result.\r\n *\r\n * If this function is invoked on other [Continuation] instances it returns `this` continuation unchanged.\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic actual fun <T> Continuation<T>.intercepted(): Continuation<T> =\r\n   (this as? CoroutineImpl)?.intercepted() ?: this\r\n\r\n\r\nprivate inline fun <T> createCoroutineFromSuspendFunction(\r\n   completion: Continuation<T>,\r\n   crossinline block: () -> Any?\r\n): Continuation<Unit> {\r\n   @Suppress(\"UNCHECKED_CAST\")\r\n   return object : CoroutineImpl(completion as Continuation<Any?>) {\r\n   override fun doResume(): Any? {\r\n   exception?.let { throw it }\r\n   return block()\r\n   }\r\n   }\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.js\r\n\r\n// Mirrors signature from JS IR BE\r\n// Used for js.translator/testData/box/number/mulInt32.kt\r\n@library\r\n@JsName(\"imulEmulated\")\r\ninternal fun imul(x: Int, y: Int): Int = definedExternally\r\n\r\ninternal inline fun isArrayish(o: dynamic) = js(\"Kotlin\").isArrayish(o)","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. Use of this source code is governed by the Apache 2.0 license\r\n * that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\n\r\n@file:Suppress(\"UNUSED_PARAMETER\")\r\n\r\n\r\npackage kotlin.js\r\n\r\n\r\n@kotlin.internal.InlineOnly\r\ninternal inline fun jsDeleteProperty(obj: Any, property: Any) {\r\n   js(\"delete obj[property]\")\r\n}\r\n\r\n\r\n@kotlin.internal.InlineOnly\r\ninternal inline fun jsBitwiseOr(lhs: Any?, rhs: Any?): Int =\r\n   js(\"lhs | rhs\").unsafeCast<Int>()","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\npackage kotlin.math\r\n\r\n\r\n/**\r\n * Returns this value with the sign bit same as of the [sign] value.\r\n *\r\n * If [sign] is `NaN` the sign of the result is undefined.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual fun Double.withSign(sign: Double): Double {\r\n   val thisSignBit = js(\"Kotlin\").doubleSignBit(this).unsafeCast<Int>()\r\n   val newSignBit = js(\"Kotlin\").doubleSignBit(sign).unsafeCast<Int>()\r\n   return if (thisSignBit == newSignBit) this else -this\r\n}","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\npackage kotlin\r\n\r\n\r\n\r\n\r\n/**\r\n * Returns a bit representation of the specified floating-point value as [Long]\r\n * according to the IEEE 754 floating-point \"double format\" bit layout.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@library(\"doubleToBits\")\r\npublic actual fun Double.toBits(): Long =

definedExternally\r\n\r\n/**\r\n * Returns a bit representation of the specified floating-point value as [Long]\r\n * according to the IEEE 754 floating-point \"double format\" bit layout,\r\n * preserving `NaN` values exact layout.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@library(\"doubleToRawBits\")\r\npublic actual fun Double.toRawBits(): Long = definedExternally\r\n\r\n/**\r\n * Returns the [Double] value corresponding to a given bit representation.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@kotlin.internal.InlineOnly\r\npublic actual inline fun Double.Companion.fromBits(bits: Long): Double = js(\"Kotlin\").doubleFromBits(bits).unsafeCast<Double>()\r\n\r\n/**\r\n * Returns a bit representation of the specified floating-point value as [Int]\r\n * according to the IEEE 754 floating-point \"single format\" bit layout.\r\n *\r\n * Note that in Kotlin/JS [Float] range is wider than \"single format\" bit layout can represent,\r\n * so some [Float] values may overflow, underflow or loose their accuracy after conversion to bits and back.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@library(\"floatToBits\")\r\npublic actual fun Float.toBits(): Int = definedExternally\r\n\r\n/**\r\n * Returns a bit representation of the specified floating-point value as [Int]\r\n * according to the IEEE 754 floating-point \"single format\" bit layout,\r\n * preserving `NaN` values exact layout.\r\n *\r\n * Note that in Kotlin/JS [Float] range is wider than \"single format\" bit layout can represent,\r\n * so some [Float] values may overflow, underflow or loose their accuracy after conversion to bits and back.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@library(\"floatToRawBits\")\r\npublic actual fun Float.toRawBits(): Int = definedExternally\r\n\r\n/**\r\n * Returns the [Float] value corresponding to a given bit representation.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@kotlin.internal.InlineOnly\r\npublic actual inline fun Float.Companion.fromBits(bits: Int): Float = js(\"Kotlin\").floatFromBits(bits).unsafeCast<Float>()\r\n\r\n\r\n\r\ninternal inline fun Long(low: Int, high: Int) = js(\"Kotlin\").Long.fromBits(low, high).unsafeCast<Long>()\r\ninternal inline val Long.low: Int get() = this.asDynamic().getLowBits().unsafeCast<Int>()\r\ninternal inline val Long.high: Int get() = this.asDynamic().getHighBits().unsafeCast<Int>()","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.text\r\n\r\n/**\r\n * Returns a string representation of this [Long] value in the specified [radix].\r\n *\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual fun Long.toString(radix: Int): String = asDynamic().toString(checkRadix(radix))","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.js.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Reverses elements in the list in-place.\n */\npublic actual fun <T> MutableList<T>.reverse(): Unit {\n   val midPoint = (size / 2) - 1\n   if (midPoint < 0) return\n   var reverseIndex = lastIndex\n   for (index in 0..midPoint) {\n   val tmp = this[index]\n   this[index] = this[reverseIndex]\n   this[reverseIndex] = tmp\n   reverseIndex--\n   }\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.js.*\n\n/**\n * Returns a character at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this char sequence.\n *\n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun CharSequence.elementAt(index: Int): Char {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, length: $length}\") }\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.js.*\nimport

kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun UIntArray.elementAt(index: Int): UInt {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size}\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun ULongArray.elementAt(index: Int): ULong {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size}\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun UByteArray.elementAt(index: Int): UByte {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size}\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun UShortArray.elementAt(index: Int): UShort {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size}\") }\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun UIntArray.asList(): List<UInt> {\n return object : AbstractList<UInt>(), RandomAccess {\n override val size: Int get() = this@asList.size\n override fun isEmpty(): Boolean = this@asList.isEmpty()\n override fun contains(element: UInt): Boolean = this@asList.contains(element)\n override fun get(index: Int): UInt {\n AbstractList.checkElementIndex(index, size)\n return this@asList[index]\n }\n override fun indexOf(element: UInt): Int {\n if ((element as Any?) !is UInt) return -1\n return this@asList.indexOf(element)\n }\n override fun lastIndexOf(element: UInt): Int {\n if ((element as Any?) !is UInt) return -1\n return this@asList.lastIndexOf(element)\n }\n }\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun ULongArray.asList(): List<ULong> {\n return object : AbstractList<ULong>(), RandomAccess {\n override val size: Int get() = this@asList.size\n override fun isEmpty(): Boolean = this@asList.isEmpty()\n override fun contains(element: ULong): Boolean = this@asList.contains(element)\n override fun get(index: Int): ULong {\n AbstractList.checkElementIndex(index, size)\n return this@asList[index]\n }\n override fun indexOf(element: ULong): Int {\n if ((element as Any?) !is ULong) return -1\n return this@asList.indexOf(element)\n }\n override fun lastIndexOf(element: ULong): Int {\n if ((element as Any?) !is ULong) return -1\n return this@asList.lastIndexOf(element)\n }\n }\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun UByteArray.asList(): List<UByte> {\n return object : AbstractList<UByte>(), RandomAccess {\n override val size: Int get() = this@asList.size\n override fun isEmpty(): Boolean = this@asList.isEmpty()\n override fun contains(element: UByte): Boolean = this@asList.contains(element)\n override fun get(index: Int): UByte {\n AbstractList.checkElementIndex(index, size)\n return this@asList[index]\n }\n override fun indexOf(element: UByte): Int {\n if ((element as Any?) !is UByte) return -1\n return this@asList.indexOf(element)\n }\n override fun lastIndexOf(element: UByte): Int {\n if ((element as Any?) !is UByte) return -1\n return this@asList.lastIndexOf(element)\n }\n }\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun UShortArray.asList(): List<UShort> {\n return object : AbstractList<UShort>(), RandomAccess {\n override val size: Int get() = this@asList.size\n override fun isEmpty(): Boolean = this@asList.isEmpty()\n override fun contains(element: UShort): Boolean = this@asList.contains(element)\n override fun get(index: Int): UShort {\n AbstractList.checkElementIndex(index, size)\n return this@asList[index]\n }\n override fun indexOf(element: UShort): Int {\n if ((element as Any?) !is UShort) return -1\n return

this@asList.indexOf(element)\n }\n override fun lastIndexOf(element: UShort): Int {\n if ((element as Any?) !is UShort) return -1\n return this@asList.lastIndexOf(element)\n }\n }\n}\n\n","@file:Suppress(\"DEPRECATION\")\r\npackage jquery.ui\r\n\r\n\r\n//jquery UI\r\nimport jquery.JQuery\r\nimport kotlin.js.Json\r\n\r\n@Deprecated(\"Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\")\r\npublic inline fun JQuery.buttonset(): JQuery = asDynamic().buttonset()\r\n\r\n@Deprecated(\"Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\")\r\npublic inline fun JQuery.dialog(): JQuery = asDynamic().dialog()\r\n\r\n@Deprecated(\"Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\")\r\npublic inline fun JQuery.dialog(params: Json): JQuery = asDynamic().dialog(params)\r\n\r\n@Deprecated(\"Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\")\r\npublic inline fun JQuery.dialog(mode: String, param: String): Any? = asDynamic().dialog(mode, param)\r\n\r\n@Deprecated(\"Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\")\r\npublic inline fun JQuery.dialog(mode: String): JQuery = asDynamic().dialog(mode)\r\n\r\n@Deprecated(\"Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\")\r\npublic inline fun JQuery.dialog(mode: String, param: String, value: Any?): JQuery = asDynamic().dialog(mode, param, value)\r\n\r\n@Deprecated(\"Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\")\r\npublic inline fun JQuery.button(): JQuery = asDynamic().button()\r\n\r\n@Deprecated(\"Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\")\r\npublic inline fun JQuery.accordion(): JQuery = asDynamic().accordion()\r\n\r\n@Deprecated(\"Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\")\r\npublic inline fun JQuery.draggable(params: Json): JQuery = asDynamic().draggable(params)\r\n\r\n@Deprecated(\"Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\")\r\npublic inline fun JQuery.selectable(): JQuery = asDynamic().selectable()\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.js\r\n\r\nimport kotlin.annotation.AnnotationTarget.*\r\n\r\n@Target(CLASS, FUNCTION, PROPERTY, CONSTRUCTOR, VALUE_PARAMETER, PROPERTY_GETTER, PROPERTY_SETTER)\r\n@Deprecated(\"Use `external` modifier instead\", level = DeprecationLevel.ERROR)\r\npublic annotation class native(public val name: String = \"\")\r\n\r\n@Target(FUNCTION)\r\n@Deprecated(\"Use inline extension function with body using dynamic\")\r\npublic annotation class nativeGetter\r\n\r\n@Target(FUNCTION)\r\n@Deprecated(\"Use inline extension function with body using dynamic\")\r\npublic annotation class nativeSetter\r\n\r\n@Target(FUNCTION)\r\n@Deprecated(\"Use inline extension function with body using dynamic\")\r\npublic annotation class nativeInvoke\r\n\r\n@Target(CLASS, FUNCTION, PROPERTY)\r\ninternal annotation class library(public val name: String = \"\")\r\n\r\n@Target(CLASS)\r\ninternal annotation class marker\r\n\r\n/**\r\n * Gives a declaration (a function, a property or a class) specific name in JavaScript.\r\n *\r\n * This may be useful in the following cases:\r\n *\r\n * * There are two functions for which the compiler gives same name in JavaScript, you can\r\n * mark one with `@JsName(...)` to prevent the compiler from reporting error.\r\n * * You are writing a JavaScript library in Kotlin. The compiler produces mangled names\r\n * for functions with parameters, which is unnatural for usual JavaScript developer.\r\n * You can put `@JsName(...)` on functions you want to be available from JavaScript.\r\n * * For some reason you want to rename declaration, e.g. there's common term in JavaScript\r\n * for a concept provided by the declaration, which in uncommon in Kotlin.\r\n *\r\n * Example:\r\n *\r\n * ``` kotlin\r\n * class Person(val name: String) {\r\n * fun hello() {\r\n * println(\"Hello $name!\")\r\n * }\r\n *\r\n * @JsName(\"helloWithGreeting\")\r\n * fun hello(greeting: String) {\r\n * println(\"$greeting $name!\")\r\n * }\r\n * }\r\n * ```\r\n *\r\n * @property name the name which compiler uses both for declaration itself and for all references to the declaration.\r\n * It's required to denote a valid JavaScript identifier.\r\n *\r\n */\r\n@Retention(AnnotationRetention.BINARY)\r\n@Target(CLASS, FUNCTION, PROPERTY, CONSTRUCTOR, PROPERTY_GETTER, PROPERTY_SETTER)\r\npublic actual

annotation class JsName(actual val name: String)\r\n\r\n/**\r\n * Denotes an `external` declaration that must be imported from native JavaScript library.\r\n *\r\n * The compiler produces the code relevant for the target module system, for example, in case of CommonJS,\r\n * it will import the declaration via the `require(...)` function.\r\n *\r\n * The annotation can be used on top-level external declarations (classes, properties, functions) and files.\r\n * In case of file (which can't be `external`) the following rule applies: all the declarations in\r\n * the file must be `external`. By applying `@JsModule(...)` on a file you tell the compiler to import a JavaScript object\r\n * that contain all the declarations from the file.\r\n *\r\n * Example:\r\n *\r\n * ``` kotlin\r\n * @JsModule(\"jquery\")\r\n * external abstract class JQuery() {\r\n * // some declarations here\r\n * }\r\n *\r\n * @JsModule(\"jquery\")\r\n * external fun JQuery(element: Element): JQuery\r\n * ```\r\n *\r\n * @property import name of a module to import declaration from.\r\n * It is not interpreted by the Kotlin compiler, it's passed as is directly to the target module system.\r\n *\r\n * @see JsNonModule\r\n */\r\n@Retention(AnnotationRetention.BINARY)\r\n@Target(CLASS, PROPERTY, FUNCTION, FILE)\r\npublic annotation class JsModule(val import: String)\r\n\r\n/**\r\n * Denotes an `external` declaration that can be used without module system.\r\n *\r\n * By default, an `external` declaration is available regardless your target module system.\r\n * However, by applying [JsModule] annotation you can make a declaration unavailable to *plain* module system.\r\n * Some JavaScript libraries are distributed both as a standalone downloadable piece of JavaScript and as a module available\r\n * as an npm package.\r\n * To tell the Kotlin compiler to accept both cases, you can augment [JsModule] with the `@JsNonModule` annotation.\r\n *\r\n * For example:\r\n *\r\n * ``` kotlin\r\n * @JsModule(\"jquery\")\r\n * @JsNonModule\r\n * @JsName(\"$\")\r\n * external abstract class JQuery() {\r\n * // some declarations here\r\n * }\r\n *\r\n * @JsModule(\"jquery\")\r\n * @JsNonModule\r\n * @JsName(\"$\")\r\n * external fun JQuery(element: Element): JQuery\r\n * ```\r\n *\r\n * @see JsModule\r\n */\r\n@Retention(AnnotationRetention.BINARY)\r\n@Target(CLASS, PROPERTY, FUNCTION, FILE)\r\npublic annotation class JsNonModule\r\n\r\n/**\r\n * Adds prefix to `external` declarations in a source file.\r\n *\r\n * JavaScript does not have concept of packages (namespaces). They are usually emulated by nested objects.\r\n * The compiler turns references to `external` declarations either to plain unprefixed names (in case of *plain* modules)\r\n * or to plain imports.\r\n * However, if a JavaScript library provides its declarations in packages, you won't be satisfied with this.\r\n * You can tell the compiler to generate additional prefix before references to `external` declarations using the `@JsQualifier(...)`\r\n * annotation.\r\n *\r\n * Note that a file marked with the `@JsQualifier(...)` annotation can't contain non-`external` declarations.\r\n *\r\n * Example:\r\n *\r\n * ```\r\n * @file:JsQualifier(\"my.jsPackageName\")\r\n * package some.kotlinPackage\r\n *\r\n * external fun foo(x: Int)\r\n *\r\n * external fun bar(): String\r\n * ```\r\n *\r\n * @property value the qualifier to add to the declarations in the generated code.\r\n * It must be a sequence of valid JavaScript identifiers separated by the `.` character.\r\n * Examples of valid qualifiers are: `foo`, `bar.Baz`, `_.$0.f`.\r\n *\r\n * @see JsModule\r\n */\r\n@Retention(AnnotationRetention.BINARY)\r\n@Target(AnnotationTarget.FILE)\r\npublic annotation class JsQualifier(val value: String)\r\n\r\n/**\r\n * Exports top-level declaration.\r\n *\r\n * Used in future IR-based backend.\r\n * Has no effect in current JS backend.\r\n */\r\n@Retention(AnnotationRetention.BINARY)\r\n@Target(CLASS, PROPERTY, FUNCTION, FILE)\r\npublic annotation class JsExport\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.jvm\r\n\r\n// these are used in common generated code in stdlib\r\n\r\n// TODO: find how to deprecate these ones\r\n\r\n@Target(AnnotationTarget.FIELD)\r\n@Retention(AnnotationRetention.SOURCE)\r\npublic actual annotation class Volatile\r\n\r\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY_GETTER, AnnotationTarget.PROPERTY_SETTER)\r\n@Retention(AnnotationRetention.SOURCE)\r\npublic actual annotation class Synchronized\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.collections\r\n\r\n/**\r\n * Provides a skeletal implementation of the [MutableCollection] interface.\r\n *\r\n * @param E the type of elements contained in the collection. The

collection is invariant on its element type.\r\n */\r\npublic actual abstract class AbstractMutableCollection<E> protected actual constructor() : AbstractCollection<E>(), MutableCollection<E> {\r\n\r\n   actual abstract override fun add(element: E): Boolean\r\n\r\n   actual override fun remove(element: E): Boolean {\r\n   val iterator = iterator()\r\n   while (iterator.hasNext()) {\r\n   if (iterator.next() == element) {\r\n   iterator.remove()\r\n   return true\r\n   }\r\n   }\r\n   return false\r\n   }\r\n\r\n   actual override fun addAll(elements: Collection<E>): Boolean {\r\n   var modified = false\r\n   for (element in elements) {\r\n   if (add(element)) modified = true\r\n   }\r\n   return modified\r\n   }\r\n\r\n   actual override fun removeAll(elements: Collection<E>): Boolean = (this as MutableIterable<E>).removeAll { it in elements }\r\n   actual override fun retainAll(elements: Collection<E>): Boolean = (this as MutableIterable<E>).removeAll { it !in elements }\r\n\r\n   actual override fun clear(): Unit {\r\n   val iterator = this.iterator()\r\n   while (iterator.hasNext()) {\r\n   iterator.next()\r\n   iterator.remove()\r\n   }\r\n   }\r\n\r\n   @JsName(\"toJSON\")\r\n   open fun toJSON(): Any = this.toArray()\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n/*\r\n * Based on GWT AbstractList\r\n * Copyright 2007 Google Inc.\r\n*/\r\n\r\n\r\npackage kotlin.collections\r\n\r\n/**\r\n * Provides a skeletal implementation of the [MutableList] interface.\r\n *\r\n * @param E the type of elements contained in the list. The list is invariant on its element type.\r\n */\r\npublic actual abstract class AbstractMutableList<E> protected actual constructor() : AbstractMutableCollection<E>(), MutableList<E> {\r\n   protected var modCount: Int = 0\r\n\r\n   abstract override fun add(index: Int, element: E): Unit\r\n   abstract override fun removeAt(index: Int): E\r\n   abstract override fun set(index: Int, element: E): E\r\n\r\n   /**\r\n   * Adds the specified element to the end of this list.\r\n   *\r\n   * @return `true` because the list is always modified as the result of this operation.\r\n   */\r\n   actual override fun add(element: E): Boolean {\r\n   add(size, element)\r\n   return true\r\n   }\r\n\r\n   actual override fun addAll(index: Int, elements: Collection<E>): Boolean {\r\n   var _index = index\r\n   var changed = false\r\n   for (e in elements) {\r\n   add(_index++, e)\r\n   changed = true\r\n   }\r\n   return changed\r\n   }\r\n\r\n   actual override fun clear() {\r\n   removeRange(0, size)\r\n   }\r\n\r\n   actual override fun removeAll(elements: Collection<E>): Boolean = removeAll { it in elements }\r\n   actual override fun retainAll(elements: Collection<E>): Boolean = removeAll { it !in elements }\r\n\r\n\r\n   actual override fun iterator(): MutableIterator<E> = IteratorImpl()\r\n\r\n   actual override fun contains(element: E): Boolean = indexOf(element) >= 0\r\n\r\n   actual override fun indexOf(element: E): Int {\r\n   for (index in 0..lastIndex) {\r\n   if (get(index) == element) {\r\n   return index\r\n   }\r\n   }\r\n   return -1\r\n   }\r\n\r\n   actual override fun lastIndexOf(element: E): Int {\r\n   for (index in lastIndex downTo 0) {\r\n   if (get(index) == element) {\r\n   return index\r\n   }\r\n   }\r\n   return -1\r\n   }\r\n\r\n   actual override fun listIterator(): MutableListIterator<E> = listIterator(0)\r\n   actual override fun listIterator(index: Int): MutableListIterator<E> = ListIteratorImpl(index)\r\n\r\n\r\n\r\n   actual override fun subList(fromIndex: Int, toIndex: Int): MutableList<E> = SubList(this, fromIndex, toIndex)\r\n\r\n\r\n   /**\r\n   * Removes the range of elements from this list starting from [fromIndex] and ending with but not including [toIndex].\r\n   */\r\n   protected open fun removeRange(fromIndex: Int, toIndex: Int) {\r\n   val iterator = listIterator(fromIndex)\r\n   repeat(toIndex - fromIndex) {\r\n   iterator.next()\r\n   iterator.remove()\r\n   }\r\n   }\r\n\r\n   /**\r\n   * Compares this list with another list instance with the ordered structural equality.\r\n   *\r\n   * @return true, if [other] instance is a [List] of the same size, which contains the same elements in the same order.\r\n   */\r\n   override fun equals(other: Any?): Boolean {\r\n   if (other === this) return true\r\n   if (other !is List<*>) return false\r\n\r\n\r\n   return AbstractList.orderedEquals(this, other)\r\n   }\r\n\r\n\r\n   /**\r\n   * Returns the hash code value for this list.\r\n   */\r\n   override fun hashCode(): Int = AbstractList.orderedHashCode(this)\r\n\r\n\r\n\r\n\r\n   private open inner class IteratorImpl : MutableIterator<E> {\r\n   /** the index of the item that will be returned on the next call to [next]`()` */\r\n   protected var index = 0\r\n   /** the index of the item that was returned on the previous call to [next]`()`\r\n   * or [ListIterator.previous]`()` (for `ListIterator`),\r\n   * -1 if no such item exists\r\n   */\r\n   protected var last = -1\r\n\r\n\r\n   override fun hasNext(): Boolean = index < size\r\n\r\n\r\n   override fun next(): E {\r\n   if (!hasNext()) throw NoSuchElementException()\r\n   last = index++\r\n

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return get(last)\r\n        }\r\n\r\n        override fun remove() {\r\n            check(last != -1) { \"Call next() or previous() before removing element from the iterator.\" }\r\n\r\n            removeAt(last)\r\n            index = last\r\n            last = -1\r\n        }\r\n    }\r\n\r\n    /**\r\n     * Implementation of `MutableListIterator` for abstract lists.\r\n     */\r\n    private inner class ListIteratorImpl(index: Int) : IteratorImpl(), MutableListIterator<E> {\r\n\r\n        init {\r\n            AbstractList.checkPositionIndex(index, this@AbstractMutableList.size)\r\n            this.index = index\r\n        }\r\n\r\n        override fun hasPrevious(): Boolean = index > 0\r\n\r\n        override fun nextIndex(): Int = index\r\n\r\n        override fun previous(): E {\r\n            if (!hasPrevious()) throw NoSuchElementException()\r\n\r\n            last = --index\r\n            return get(last)\r\n        }\r\n\r\n        override fun previousIndex(): Int = index - 1\r\n\r\n        override fun add(element: E) {\r\n            add(index, element)\r\n            index++\r\n            last = -1\r\n        }\r\n\r\n        override fun set(element: E) {\r\n            check(last != -1) { \"Call next() or previous() before updating element value with the iterator.\" }\r\n            this@AbstractMutableList[last] = element\r\n        }\r\n    }\r\n\r\n    private class SubList<E>(private val list: AbstractMutableList<E>, private val fromIndex: Int, toIndex: Int) : AbstractMutableList<E>(), RandomAccess {\r\n        private var _size: Int = 0\r\n\r\n        init {\r\n            AbstractList.checkRangeIndexes(fromIndex, toIndex, list.size)\r\n            this._size = toIndex - fromIndex\r\n        }\r\n\r\n        override fun add(index: Int, element: E) {\r\n            AbstractList.checkPositionIndex(index, _size)\r\n\r\n            list.add(fromIndex + index, element)\r\n            _size++\r\n        }\r\n\r\n        override fun get(index: Int): E {\r\n            AbstractList.checkElementIndex(index, _size)\r\n\r\n            return list[fromIndex + index]\r\n        }\r\n\r\n        override fun removeAt(index: Int): E {\r\n            AbstractList.checkElementIndex(index, _size)\r\n\r\n            val result = list.removeAt(fromIndex + index)\r\n            _size--\r\n            return result\r\n        }\r\n\r\n        override fun set(index: Int, element: E): E {\r\n            AbstractList.checkElementIndex(index, _size)\r\n\r\n            return list.set(fromIndex + index, element)\r\n        }\r\n\r\n        override val size: Int get() = _size\r\n    }\r\n\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n/*\r\n * Based on GWT AbstractMap\r\n * Copyright 2007 Google Inc.\r\n */\r\n\r\npackage kotlin.collections\r\n\r\n/**\r\n * Provides a skeletal implementation of the [MutableMap] interface.\r\n *\r\n * The implementor is required to implement [entries] property, which should return mutable set of map entries, and [put] function.\r\n *\r\n * @param K the type of map keys. The map is invariant on its key type.\r\n * @param V the type of map values. The map is invariant on its value type.\r\n */\r\npublic actual abstract class AbstractMutableMap<K, V> protected actual constructor() : AbstractMap<K, V>(), MutableMap<K, V> {\r\n\r\n    /**\r\n     * A mutable [Map.Entry] shared by several [Map] implementations.\r\n     */\r\n    internal open class SimpleEntry<K, V>(override val key: K, value: V) : MutableMap.MutableEntry<K, V> {\r\n        constructor(entry: Map.Entry<K, V>) : this(entry.key, entry.value)\r\n\r\n        private var _value = value\r\n\r\n        override val value: V get() = _value\r\n\r\n        override fun setValue(newValue: V): V {\r\n            val oldValue = this._value\r\n            this._value = newValue\r\n            return oldValue\r\n        }\r\n\r\n        override fun hashCode(): Int = entryHashCode(this)\r\n        override fun toString(): String = entryToString(this)\r\n        override fun equals(other: Any?): Boolean = entryEquals(this, other)\r\n\r\n    }\r\n\r\n    actual override fun clear() {\r\n        entries.clear()\r\n    }\r\n\r\n    private var _keys: MutableSet<K>? = null\r\n    actual override val keys: MutableSet<K>\r\n        get() {\r\n            if (_keys == null) {\r\n                _keys = object : AbstractMutableSet<K>() {\r\n                    override fun add(element: K): Boolean = throw UnsupportedOperationException(\"Add is not supported on keys\")\r\n                    override fun clear() {\r\n                        this@AbstractMutableMap.clear()\r\n                    }\r\n\r\n                    override operator fun contains(element: K): Boolean = containsKey(element)\r\n\r\n                    override operator fun iterator(): MutableIterator<K> {\r\n                        val entryIterator = entries.iterator()\r\n                        return object : MutableIterator<K> {\r\n                            override fun hasNext(): Boolean = entryIterator.hasNext()\r\n                            override fun next(): K = entryIterator.next().key\r\n                            override fun remove() = entryIterator.remove()\r\n                        }\r\n                    }\r\n\r\n                    override fun remove(element: K): Boolean {\r\n                        if (containsKey(element)) {\r\n                            this@AbstractMutableMap.remove(element)\r\n                            return true\r\n                        }\r\n                        return false\r\n                    }\r\n\r\n                    override val size:
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Int get() = this@AbstractMutableMap.size\r\n }\r\n }\r\n return _keys!!\r\n }\r\n\r\n actual abstract override fun put(key: K, value: V): V?\r\n\r\n actual override fun putAll(from: Map<out K, V>) {\r\n for ((key, value) in from) {\r\n put(key, value)\r\n }\r\n }\r\n\r\n private var _values: MutableCollection<V>? = null\r\n actual override val values: MutableCollection<V>\r\n get() {\r\n if (_values == null) {\r\n _values = object : AbstractMutableCollection<V>() {\r\n override fun add(element: V): Boolean = throw UnsupportedOperationException(\"Add is not supported on values\")\r\n override fun clear() = this@AbstractMutableMap.clear()\r\n\r\n override operator fun contains(element: V): Boolean = containsValue(element)\r\n\r\n override operator fun iterator(): MutableIterator<V> {\r\n val entryIterator = entries.iterator()\r\n return object : MutableIterator<V> {\r\n override fun hasNext(): Boolean = entryIterator.hasNext()\r\n override fun next(): V = entryIterator.next().value\r\n override fun remove() = entryIterator.remove()\r\n }\r\n }\r\n\r\n override val size: Int get() = this@AbstractMutableMap.size\r\n\r\n // TODO: should we implement them this way? Currently it's unspecified in JVM\r\n override fun equals(other: Any?): Boolean {\r\n if (this === other) return true\r\n if (other !is Collection<*>) return false\r\n return AbstractList.orderedEquals(this, other)\r\n }\r\n\r\n override fun hashCode(): Int = AbstractList.orderedHashCode(this)\r\n }\r\n }\r\n return _values!!\r\n }\r\n\r\n actual override fun remove(key: K): V? {\r\n val iter = entries.iterator()\r\n while (iter.hasNext()) {\r\n val entry = iter.next()\r\n val k = entry.key\r\n if (key == k) {\r\n val value = entry.value\r\n iter.remove()\r\n return value\r\n }\r\n }\r\n return null\r\n }\r\n\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\npackage kotlin.collections\r\n\r\n/**\r\n * Provides a skeletal implementation of the [MutableSet] interface.\r\n *\r\n * @param E the type of elements contained in the set. The set is invariant on its element type.\r\n */\r\npublic actual abstract class AbstractMutableSet<E> protected actual constructor() : AbstractMutableCollection<E>(), MutableSet<E> {\r\n\r\n /**\r\n * Compares this set with another set instance with the unordered structural equality.\r\n *\r\n * @return `true`, if [other] instance is a [Set] of the same size, all elements of which are contained in this set.\r\n */\r\n override fun equals(other: Any?): Boolean {\r\n if (other === this) return true\r\n if (other !is Set<*>) return false\r\n return AbstractSet.setEquals(this, other)\r\n }\r\n\r\n /**\r\n * Returns the hash code value for this set.\r\n */\r\n override fun hashCode(): Int = AbstractSet.unorderedHashCode(this)\r\n\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.collections\r\n\r\n/**\r\n * Provides a [MutableList] implementation, which uses a resizable array as its backing storage.\r\n *\r\n * This implementation doesn't provide a way to manage capacity, as backing JS array is resizeable itself.\r\n * There is no speed advantage to pre-allocating array sizes in JavaScript, so this implementation does not include any of the\r\n * capacity and \"growth increment\" concepts.\r\n */\r\npublic actual open class ArrayList<E> internal constructor(private var array: Array<Any?>) : AbstractMutableList<E>(), MutableList<E>, RandomAccess {\r\n\r\n /**\r\n * Creates an empty [ArrayList].\r\n */\r\n public actual constructor() : this(emptyArray()) {}\r\n\r\n /**\r\n * Creates an empty [ArrayList].\r\n * @param initialCapacity initial capacity (ignored)\r\n */\r\n @Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\n public actual constructor(initialCapacity: Int = 0) : this(emptyArray()) {}\r\n\r\n /**\r\n * Creates an [ArrayList] filled from the [elements] collection.\r\n */\r\n public actual constructor(elements: Collection<E>) : this(elements.toTypedArray<Any?>()) {}\r\n\r\n /** Does nothing in this ArrayList implementation. */\r\n public actual fun trimToSize() {}\r\n\r\n /** Does nothing in this ArrayList implementation. */\r\n public actual fun ensureCapacity(minCapacity: Int) {}\r\n\r\n actual override val size: Int get() = array.size\r\n\r\n @Suppress(\"UNCHECKED_CAST\")\r\n actual override fun get(index: Int): E = array[rangeCheck(index)] as E\r\n\r\n actual override fun set(index: Int, element: E): E {\r\n rangeCheck(index)\r\n

@Suppress(\"UNCHECKED_CAST\")\r\n return array[index].apply { array[index] = element } as E\r\n }\r\n\r\n actual override fun add(element: E): Boolean {\r\n array.asDynamic().push(element)\r\n modCount++\r\n return true\r\n }\r\n\r\n actual override fun add(index: Int, element: E): Unit {\r\n array.asDynamic().splice(insertionRangeCheck(index), 0, element)\r\n modCount++\r\n }\r\n\r\n actual override fun addAll(elements: Collection<E>): Boolean {\r\n if (elements.isEmpty()) return false\r\n\r\n array += elements.toTypedArray<Any?>()\r\n modCount++\r\n return true\r\n }\r\n\r\n actual override fun addAll(index: Int, elements: Collection<E>): Boolean {\r\n insertionRangeCheck(index)\r\n\r\n if (index == size) return addAll(elements)\r\n if (elements.isEmpty()) return false\r\n when (index) {\r\n size -> return addAll(elements)\r\n 0 -> array = elements.toTypedArray<Any?>() + array\r\n else -> array = array.copyOfRange(0, index).asDynamic().concat(elements.toTypedArray<Any?>(), array.copyOfRange(index, size))\r\n }\r\n\r\n modCount++\r\n return true\r\n }\r\n\r\n actual override fun removeAt(index: Int): E {\r\n rangeCheck(index)\r\n modCount++\r\n return if (index == lastIndex)\r\n array.asDynamic().pop()\r\n else\r\n array.asDynamic().splice(index, 1)[0]\r\n }\r\n\r\n actual override fun remove(element: E): Boolean {\r\n for (index in array.indices) {\r\n if (array[index] == element) {\r\n array.asDynamic().splice(index, 1)\r\n modCount++\r\n return true\r\n }\r\n }\r\n return false\r\n }\r\n\r\n override fun removeRange(fromIndex: Int, toIndex: Int) {\r\n modCount++\r\n array.asDynamic().splice(fromIndex, toIndex - fromIndex)\r\n }\r\n\r\n actual override fun clear() {\r\n array = emptyArray()\r\n modCount++\r\n }\r\n\r\n\r\n actual override fun indexOf(element: E): Int = array.indexOf(element)\r\n\r\n actual override fun lastIndexOf(element: E): Int = array.lastIndexOf(element)\r\n\r\n override fun toString() = arrayToString(array)\r\n override fun toArray(): Array<Any?> = js(\"[]\").slice.call(array)\r\n\r\n\r\n private fun rangeCheck(index: Int) = index.apply {\r\n AbstractList.checkElementIndex(index, size)\r\n }\r\n\r\n private fun insertionRangeCheck(index: Int) = index.apply {\r\n AbstractList.checkPositionIndex(index, size)\r\n }\r\n}","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.collections\r\n\r\n\r\n@UseExperimental(ExperimentalUnsignedTypes::class)\r\n@SinceKotlin(\"1.3\")\r\n@kotlin.js.JsName(\"contentDeepHashCodeImpl\")\r\ninternal fun <T> Array<out T>.contentDeepHashCodeImpl(): Int {\r\n var result = 1\r\n for (element in this) {\r\n val elementHash = when {\r\n element == null -> 0\r\n isArrayish(element) -> (element.unsafeCast<Array<*>>()).contentDeepHashCodeImpl()\r\n\r\n element is UByteArray -> element.contentHashCode()\r\n element is UShortArray -> element.contentHashCode()\r\n element is UIntArray -> element.contentHashCode()\r\n element is ULongArray -> element.contentHashCode()\r\n\r\n else -> element.hashCode()\r\n }\r\n\r\n result = 31 * result + elementHash\r\n }\r\n return result\r\n}","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\npackage kotlin.collections\r\n\r\ninternal fun <T> sortArrayWith(array: Array<out T>, comparison: (T, T) -> Int) {\r\n if (getStableSortingIsSupported()) {\r\n array.asDynamic().sort(comparison)\r\n } else {\r\n mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, Comparator(comparison))\r\n }\r\n}\r\n\r\n\r\ninternal fun <T> sortArrayWith(array: Array<out T>, comparator: Comparator<in T>) {\r\n if (getStableSortingIsSupported()) {\r\n val comparison = { a: T, b: T -> comparator.compare(a, b) }\r\n array.asDynamic().sort(comparison)\r\n } else {\r\n mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, comparator)\r\n }\r\n}\r\n\r\n\r\ninternal fun <T : Comparable<T>> sortArray(array: Array<out T>) {\r\n if (getStableSortingIsSupported()) {\r\n val comparison = { a: T, b: T -> a.compareTo(b) }\r\n array.asDynamic().sort(comparison)\r\n } else {\r\n mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, naturalOrder())\r\n }\r\n}\r\n\r\n\r\nprivate var _stableSortingIsSupported: Boolean? = null\r\n\r\nprivate fun getStableSortingIsSupported(): Boolean {\r\n _stableSortingIsSupported?.let { return it }\r\n _stableSortingIsSupported = false\r\n\r\n\r\n val array = js(\"[]\").unsafeCast<Array<Int>>()\r\n // known implementations may use stable sort for arrays of up to 512 elements\r\n // so we create slightly more elements to test stability\r\n for (index in 0 until 600)

array.asDynamic().push(index)\r\n   val comparison = { a: Int, b: Int -> (a and 3) - (b and 3) }\r\n   array.asDynamic().sort(comparison)\r\n   for (index in 1 until array.size) {\r\n   val a = array[index - 1]\r\n   val b = array[index]\r\n   if ((a and 3) == (b and 3) && a >= b) return false\r\n   }\r\n   _stableSortingIsSupported = true\r\n   return true\r\n}\r\n\r\n\r\n\nprivate fun <T> mergeSort(array: Array<T>, start: Int, endInclusive: Int, comparator: Comparator<in T>) {\r\n   val buffer = arrayOfNulls<Any?>(array.size).unsafeCast<Array<T>>()\r\n   val result = mergeSort(array, buffer, start, endInclusive, comparator)\r\n   if (result !== array) {\r\n   result.forEachIndexed { i, v -> array[i] = v }\r\n   }\r\n}\r\n\r\n// Both start and end are inclusive indices.\r\nprivate fun <T> mergeSort(array: Array<T>, buffer: Array<T>, start: Int, end: Int, comparator: Comparator<in T>): Array<T> {\r\n   if (start == end) {\r\n   return array\r\n   }\r\n\r\n   val median = (start + end) / 2\r\n   val left = mergeSort(array, buffer, start, median, comparator)\r\n   val right = mergeSort(array, buffer, median + 1, end, comparator)\r\n\r\n   val target = if (left === buffer) array else buffer\r\n\r\n   // Merge.\r\n   var leftIndex = start\r\n   var rightIndex = median + 1\r\n   for (i in start..end) {\r\n   when {\r\n   leftIndex <= median && rightIndex <= end -> {\r\n   val leftValue = left[leftIndex]\r\n   val rightValue = right[rightIndex]\r\n\r\n   if (comparator.compare(leftValue, rightValue) <= 0) {\r\n   target[i] = leftValue\r\n   leftIndex++\r\n   } else {\r\n   target[i] = rightValue\r\n   rightIndex++\r\n   }\r\n   }\r\n   leftIndex <= median -> {\r\n   target[i] = left[leftIndex]\r\n   leftIndex++\r\n   }\r\n   else /* rightIndex <= end */ -> {\r\n   target[i] = right[rightIndex]\r\n   rightIndex++\r\n   Unit // TODO: Fix KT-31506\r\n   }\r\n   }\r\n   }\r\n\r\n   return target\r\n}","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.collections\r\n\r\ninternal interface EqualityComparator {\r\n   /**\r\n   * Subclasses must override to return a value indicating\r\n   * whether or not two keys or values are equal.\r\n   */\r\n   abstract fun equals(value1: Any?, value2: Any?): Boolean\r\n\r\n   /**\r\n   * Subclasses must override to return the hash code of a given key.\r\n   */\r\n   abstract fun getHashCode(value: Any?): Int\r\n\r\n\r\n   object HashCode : EqualityComparator {\r\n   override fun equals(value1: Any?, value2: Any?): Boolean = value1 == value2\r\n\r\n\r\n   override fun getHashCode(value: Any?): Int = value?.hashCode() ?: 0\r\n   }\r\n}","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n/*\r\n * Based on GWT AbstractHashMap\r\n * Copyright 2008 Google Inc.\r\n */\r\n\r\n\r\npackage kotlin.collections\r\n\r\n\r\nimport kotlin.collections.MutableMap.MutableEntry\r\n\r\n\r\n/**\r\n * Hash table based implementation of the [MutableMap] interface.\r\n *\r\n * This implementation makes no guarantees regarding the order of enumeration of [keys], [values] and [entries] collections.\r\n */\r\npublic actual open class HashMap<K, V> : AbstractMutableMap<K, V>, MutableMap<K, V> {\r\n\r\n\r\n   private inner class EntrySet : AbstractMutableSet<MutableEntry<K, V>>() {\r\n\r\n\r\n   override fun add(element: MutableEntry<K, V>): Boolean = throw UnsupportedOperationException(\"Add is not supported on entries\")\r\n\r\n   override fun clear() {\r\n   this@HashMap.clear()\r\n   }\r\n\r\n\r\n   override operator fun contains(element: MutableEntry<K, V>): Boolean = containsEntry(element)\r\n\r\n\r\n   override operator fun iterator(): MutableIterator<MutableEntry<K, V>> = internalMap.iterator()\r\n\r\n\r\n   override fun remove(element: MutableEntry<K, V>): Boolean {\r\n   if (contains(element)) {\r\n   this@HashMap.remove(element.key)\r\n   return true\r\n   }\r\n   return false\r\n   }\r\n\r\n\r\n   override val size: Int get() = this@HashMap.size\r\n   }\r\n\r\n\r\n\r\n\r\n   /**\r\n   * Internal implementation of the map: either string-based or hashcode-based.\r\n   */\r\n   private val internalMap: InternalMap<K, V>\r\n\r\n\r\n   private val equality: EqualityComparator\r\n\r\n\r\n   internal constructor(internalMap: InternalMap<K, V>) : super() {\r\n   this.internalMap = internalMap\r\n   this.equality = internalMap.equality\r\n   }\r\n\r\n\r\n   /**\r\n   * Constructs an empty [HashMap] instance.\r\n   */\r\n   actual constructor() : this(InternalHashCodeMap(EqualityComparator.HashCode))\r\n\r\n\r\n   /**\r\n   * Constructs an empty [HashMap] instance.\r\n   *\r\n   * @param initialCapacity the initial capacity (ignored)\r\n   * @param loadFactor   the load factor (ignored)\r\n   *\r\n   * @throws IllegalArgumentException if the initial capacity or load factor are

negative\r\n */\r\n @Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\n actual constructor(initialCapacity: Int, loadFactor: Float = 0.0f) : this() {\r\n // This implementation of HashMap has no need of load factors or capacities.\r\n require(initialCapacity >= 0) { \"Negative initial capacity: $initialCapacity\" }\r\n require(loadFactor >= 0) { \"Non-positive load factor: $loadFactor\" }\r\n }\r\n\r\n actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\r\n\r\n\r\n /**\r\n * Constructs an instance of [HashMap] filled with the contents of the specified [original] map.\r\n */\r\n actual constructor(original: Map<out K, V>) : this() {\r\n this.putAll(original)\r\n }\r\n\r\n actual override fun clear() {\r\n internalMap.clear()\r\n// structureChanged(this)\r\n }\r\n\r\n actual override fun containsKey(key: K): Boolean = internalMap.contains(key)\r\n\r\n actual override fun containsValue(value: V): Boolean = internalMap.any { equality.equals(it.value, value) }\r\n\r\n private var _entries: MutableSet<MutableMap.MutableEntry<K, V>>? = null\r\n actual override val entries: MutableSet<MutableMap.MutableEntry<K, V>>\r\n get() {\r\n if (_entries == null) {\r\n _entries = createEntrySet()\r\n }\r\n return _entries!!\r\n }\r\n\r\n protected open fun createEntrySet(): MutableSet<MutableMap.MutableEntry<K, V>> = EntrySet()\r\n\r\n actual override operator fun get(key: K): V? = internalMap.get(key)\r\n\r\n actual override fun put(key: K, value: V): V? = internalMap.put(key, value)\r\n\r\n actual override fun remove(key: K): V? = internalMap.remove(key)\r\n\r\n actual override val size: Int get() = internalMap.size\r\n\r\n}\r\n\r\n/**\r\n * Constructs the specialized implementation of [HashMap] with [String] keys, which stores the keys as properties of\r\n * JS object without hashing them.\r\n */\r\npublic fun <V> stringMapOf(vararg pairs: Pair<String, V>): HashMap<String, V> {\r\n return HashMap<String, V>(InternalStringMap(EqualityComparator.HashCode)).apply { putAll(pairs) }\r\n}","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n/*\r\n * Based on GWT HashSet\r\n * Copyright 2008 Google Inc.\r\n */\r\n\r\npackage kotlin.collections\r\n\r\n/**\r\n * The implementation of the [MutableSet] interface, backed by a [HashMap] instance.\r\n */\r\npublic actual open class HashSet<E> : AbstractMutableSet<E>, MutableSet<E> {\r\n\r\n private val map: HashMap<E, Any>\r\n\r\n /**\r\n * Constructs a new empty [HashSet].\r\n */\r\n actual constructor() {\r\n map = HashMap<E, Any>()\r\n }\r\n\r\n /**\r\n * Constructs a new [HashSet] filled with the elements of the specified collection.\r\n */\r\n actual constructor(elements: Collection<E>) {\r\n map = HashMap<E, Any>(elements.size)\r\n addAll(elements)\r\n }\r\n\r\n /**\r\n * Constructs a new empty [HashSet].\r\n *\r\n * @param initialCapacity the initial capacity (ignored)\r\n * @param loadFactor the load factor (ignored)\r\n *\r\n * @throws IllegalArgumentException if the initial capacity or load factor are negative\r\n */\r\n @Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\n actual constructor(initialCapacity: Int, loadFactor: Float = 0.0f) {\r\n map = HashMap<E, Any>(initialCapacity, loadFactor)\r\n }\r\n\r\n actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\r\n\r\n\r\n /**\r\n * Protected constructor to specify the underlying map. This is used by\r\n * LinkedHashSet.\r\n\r\n\r\n * @param map underlying map to use.\r\n */\r\n internal constructor(map: HashMap<E, Any>) {\r\n this.map = map\r\n }\r\n\r\n actual override fun add(element: E): Boolean {\r\n val old = map.put(element, this)\r\n return old == null\r\n }\r\n\r\n actual override fun clear() {\r\n map.clear()\r\n }\r\n\r\n\r\n// public override fun clone(): Any {\r\n// return HashSet<E>(this)\r\n// }\r\n\r\n actual override operator fun contains(element: E): Boolean = map.containsKey(element)\r\n\r\n actual override fun isEmpty(): Boolean = map.isEmpty()\r\n\r\n actual override fun iterator(): MutableIterator<E> = map.keys.iterator()\r\n\r\n actual override fun remove(element: E): Boolean = map.remove(element) != null\r\n\r\n actual override val size: Int get() = map.size\r\n\r\n\r\n}\r\n\r\n/**\r\n * Creates a new instance of the specialized implementation of [HashSet] with the specified [String] elements,\r\n * which elements the keys as properties of JS object without hashing them.\r\n */\r\npublic fun stringSetOf(vararg elements: String): HashSet<String> {\r\n return HashSet(stringMapOf<Any>()).apply { addAll(elements) }\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n/*\r\n * Based on GWT InternalHashCodeMap\r\n *

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Copyright 2008 Google Inc.\r\n */\r\n\r\npackage kotlin.collections\r\n\r\nimport
kotlin.collections.MutableMap.MutableEntry\r\nimport
kotlin.collections.AbstractMutableMap.SimpleEntry\r\n\r\n/**\r\n * A simple wrapper around JavaScriptObject to
provide [java.util.Map]-like semantics for any\r\n * key type.\r\n *\r\n *\r\n * Implementation notes:\r\n *\r\n *\r\n *
A key's hashCode is the index in backingMap which should contain that key. Since several keys may\r\n * have the
same hash, each value in hashCodeMap is actually an array containing all entries whose\r\n * keys share the same
hash.\r\n */\r\ninternal class InternalHashCodeMap<K, V>(override val equality: EqualityComparator) :
InternalMap<K, V> {\r\n\r\n    private var backingMap: dynamic = createJsMap()\r\n    override var size: Int = 0\r\n
    private set\r\n\r\n    override fun put(key: K, value: V): V? {\r\n        val hashCode =
equality.getHashCode(key)\r\n        val chainOrEntry = getChainOrEntryOrNull(hashCode)\r\n        if (chainOrEntry
== null) {\r\n            // This is a new chain, put it to the map.\r\n            backingMap[hashCode] = SimpleEntry(key,
value)\r\n        } else {\r\n            if (chainOrEntry !is Array<*>) {\r\n                // It is an entry\r\n                val
entry: SimpleEntry<K, V> = chainOrEntry\r\n                if (equality.equals(entry.key, key)) {\r\n                    return
entry.setValue(value)\r\n                } else {\r\n                    backingMap[hashCode] = arrayOf(entry,
SimpleEntry(key, value))\r\n                    size++\r\n                    return null\r\n                }\r\n            } else {\r\n
    // Chain already exists, perhaps key also exists.\r\n                val chain: Array<MutableEntry<K, V>> =
chainOrEntry\r\n                val entry = chain.findEntryInChain(key)\r\n                if (entry != null) {\r\n
return entry.setValue(value)\r\n                }\r\n                chain.asDynamic().push(SimpleEntry(key, value))\r\n
}\r\n        }\r\n        size++\r\n//        structureChanged(host)\r\n        return null\r\n    }\r\n\r\n    override fun
remove(key: K): V? {\r\n        val hashCode = equality.getHashCode(key)\r\n        val chainOrEntry =
getChainOrEntryOrNull(hashCode) ?: return null\r\n        if (chainOrEntry !is Array<*>) {\r\n            val entry:
MutableEntry<K, V> = chainOrEntry\r\n            if (equality.equals(entry.key, key)) {\r\n
jsDeleteProperty(backingMap, hashCode)\r\n                size--\r\n                return entry.value\r\n            } else {\r\n
        return null\r\n            }\r\n        } else {\r\n            val chain: Array<MutableEntry<K, V>> = chainOrEntry\r\n
        for (index in chain.indices) {\r\n                val entry = chain[index]\r\n                if (equality.equals(key,
entry.key)) {\r\n                    if (chain.size == 1) {\r\n                        chain.asDynamic().length = 0\r\n
// remove the whole array\r\n                        jsDeleteProperty(backingMap, hashCode)\r\n                    } else {\r\n
            // splice out the entry we're removing\r\n                        chain.asDynamic().splice(index, 1)\r\n
}\r\n                    size--\r\n//                    structureChanged(host)\r\n                    return entry.value\r\n                }\r\n
    }\r\n        }\r\n        return null\r\n    }\r\n\r\n    override fun clear() {\r\n        backingMap = createJsMap()\r\n
size = 0\r\n    }\r\n\r\n    override fun contains(key: K): Boolean = getEntry(key) != null\r\n\r\n    override fun
get(key: K): V? = getEntry(key)?.value\r\n\r\n    private fun getEntry(key: K): MutableEntry<K, V>? {\r\n        val
chainOrEntry = getChainOrEntryOrNull(equality.getHashCode(key)) ?: return null\r\n        if (chainOrEntry !is
Array<*>) {\r\n            val entry: MutableEntry<K, V> = chainOrEntry\r\n            if (equality.equals(entry.key,
key)) {\r\n                return entry\r\n            } else {\r\n                return null\r\n            }\r\n        } else {\r\n            val
chain: Array<MutableEntry<K, V>> = chainOrEntry\r\n            return chain.findEntryInChain(key)\r\n        }\r\n
}\r\n\r\n    private fun Array<MutableEntry<K, V>>.findEntryInChain(key: K): MutableEntry<K, V>? =\r\n
firstOrNull { entry -> equality.equals(entry.key, key) }\r\n\r\n    override fun iterator():
MutableIterator<MutableEntry<K, V>> {\r\n\r\n        return object : MutableIterator<MutableEntry<K, V>> {\r\n
    var state = -1 // -1 not ready, 0 - ready, 1 - done\r\n\r\n            val keys: Array<String> =
js(\"Object\").keys(backingMap)\r\n            var keyIndex = -1\r\n\r\n            var chainOrEntry: dynamic = null\r\n
    var isChain = false\r\n            var itemIndex = -1\r\n            var lastEntry: MutableEntry<K, V>? = null\r\n\r\n
   private fun computeNext(): Int {\r\n                if (chainOrEntry != null && isChain) {\r\n                    val
chainSize: Int = chainOrEntry.unsafeCast<Array<MutableEntry<K, V>>>().size\r\n                    if (++itemIndex <
chainSize)\r\n                        return 0\r\n                }\r\n\r\n                if (++keyIndex < keys.size) {\r\n
chainOrEntry = backingMap[keys[keyIndex]]\r\n                    isChain = chainOrEntry is Array<*>\r\n
itemIndex = 0\r\n                    return 0\r\n                } else {\r\n                    chainOrEntry = null\r\n                    return
1\r\n                }\r\n            }\r\n\r\n            override fun hasNext(): Boolean {\r\n                if (state == -1)\r\n
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    state = computeNext()\r\n            return state == 0\r\n        }\r\n\r\n        override fun next(): MutableEntry<K, V> {\r\n            if (!hasNext()) throw NoSuchElementException()\r\n            val lastEntry = if (isChain) {\r\n                chainOrEntry.unsafeCast<Array<MutableEntry<K, V>>>()[itemIndex]\r\n            } else {\r\n                chainOrEntry.unsafeCast<MutableEntry<K, V>>()\r\n            }\r\n            this.lastEntry = lastEntry\r\n            state = -1\r\n            return lastEntry\r\n        }\r\n\r\n        override fun remove() {\r\n            checkNotNull(lastEntry)\r\n            this@InternalHashCodeMap.remove(lastEntry!!.key)\r\n            lastEntry = null\r\n            // the chain being iterated just got modified by InternalHashCodeMap.remove\r\n            itemIndex--\r\n        }\r\n    }\r\n}\r\n\r\n    private fun getChainOrEntryOrNull(hashCode: Int): dynamic {\r\n        val chainOrEntry = backingMap[hashCode]\r\n        return if (chainOrEntry === undefined) null else chainOrEntry\r\n    }\r\n\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.collections\r\n\r\n/**\r\n * The common interface of [InternalStringMap] and [InternalHashCodeMap].\r\n */\r\ninternal interface InternalMap<K, V> : MutableIterable<MutableMap.MutableEntry<K, V>> {\r\n    val equality: EqualityComparator\r\n    val size: Int\r\n    operator fun contains(key: K): Boolean\r\n    operator fun get(key: K): V?\r\n\r\n    fun put(key: K, value: V): V?\r\n    fun remove(key: K): V?\r\n    fun clear(): Unit\r\n\r\n    fun createJsMap(): dynamic {\r\n        val result = js(\"Object.create(null)\")\r\n        // force to switch object representation to dictionary mode\r\n        result[\"foo\"] = 1\r\n        jsDeleteProperty(result, \"foo\")\r\n        return result\r\n    }\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n/*\r\n * Based on GWT InternalStringMap\r\n * Copyright 2008 Google Inc.\r\n */\r\npackage kotlin.collections\r\n\r\nimport kotlin.collections.MutableMap.MutableEntry\r\n\r\n/**\r\n * A simple wrapper around JavaScript Map for key type is string.\r\n *\r\n * Though this map is instantiated only with K=String, the K type is not fixed to String statically,\r\n * because we want to have it erased to Any? in order not to generate type-safe override bridges for\r\n * [get], [contains], [remove] etc, if they ever are generated.\r\n */\r\ninternal class InternalStringMap<K, V>(override val equality: EqualityComparator) : InternalMap<K, V> {\r\n\r\n    private var backingMap: dynamic = createJsMap()\r\n    override var size: Int = 0\r\n        private set\r\n\r\n//    /**\r\n//     * A mod count to track 'value' replacements in map to ensure that the 'value' that we have in the\r\n//     * iterator entry is guaranteed to be still correct.\r\n//     * This is to optimize for the common scenario where the values are not modified during\r\n//     * iterations where the entries are never stale.\r\n//     */\r\n//    private var valueMod: Int = 0\r\n\r\n    override operator fun contains(key: K): Boolean {\r\n        if (key !is String) return false\r\n        return backingMap[key] !== undefined\r\n    }\r\n\r\n    override operator fun get(key: K): V? {\r\n        if (key !is String) return null\r\n        val value = backingMap[key]\r\n        return if (value !== undefined) value.unsafeCast<V>() else null\r\n    }\r\n\r\n\r\n    override fun put(key: K, value: V): V? {\r\n        require(key is String)\r\n        val oldValue = backingMap[key]\r\n        backingMap[key] = value\r\n\r\n        if (oldValue === undefined) {\r\n            size++\r\n//            structureChanged(host)\r\n            return null\r\n        } else {\r\n//            valueMod++\r\n            return oldValue.unsafeCast<V>()\r\n        }\r\n    }\r\n\r\n    override fun remove(key: K): V? {\r\n        if (key !is String) return null\r\n        val value = backingMap[key]\r\n        if (value !== undefined) {\r\n            jsDeleteProperty(backingMap, key)\r\n            size--\r\n//            structureChanged(host)\r\n            return value.unsafeCast<V>()\r\n        } else {\r\n//            valueMod++\r\n            return null\r\n        }\r\n    }\r\n\r\n\r\n    override fun clear() {\r\n        backingMap = createJsMap()\r\n        size = 0\r\n    }\r\n\r\n\r\n    override fun iterator(): MutableIterator<MutableEntry<K, V>> {\r\n        return object : MutableIterator<MutableEntry<K, V>> {\r\n            private val keys: Array<String> = js(\"Object\").keys(backingMap)\r\n            private val iterator = keys.iterator()\r\n            private var lastKey: String? = null\r\n\r\n\r\n            override fun hasNext(): Boolean = iterator.hasNext()\r\n\r\n\r\n            override fun next(): MutableEntry<K, V> {\r\n                val key = iterator.next()\r\n                lastKey = key\r\n                @Suppress(\"UNCHECKED_CAST\")\r\n                return newMapEntry(key as K)\r\n            }\r\n\r\n\r\n            override fun remove() {\r\n                @Suppress(\"UNCHECKED_CAST\")\r\n                this@InternalStringMap.remove(checkNotNull(lastKey) as K)\r\n            }\r\n        }\r\n    }\r\n\r\n    private fun
```

newMapEntry(key: K): MutableEntry<K, V> = object : MutableEntry<K, V> {\r\n override val key: K get() = key\r\n override val value: V get() = this@InternalStringMap[key].unsafeCast<V>()\r\n\r\n override fun setValue(newValue: V): V = this@InternalStringMap.put(key, newValue).unsafeCast<V>()\r\n\r\n override fun hashCode(): Int = AbstractMap.entryHashCode(this)\r\n override fun toString(): String = AbstractMap.entryToString(this)\r\n override fun equals(other: Any?): Boolean = AbstractMap.entryEquals(this, other)\r\n }\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n/*\r\n * Based on GWT LinkedHashMap\r\n * Copyright 2008 Google Inc.\r\n */\r\npackage kotlin.collections\r\n\r\nimport kotlin.collections.MutableMap.MutableEntry\r\n\r\n/**\r\n * Hash table based implementation of the [MutableMap] interface, which additionally preserves the insertion order\r\n * of entries during the iteration.\r\n *\r\n * The insertion order is preserved by maintaining a doubly-linked list of all of its entries.\r\n */\r\npublic actual open class LinkedHashMap<K, V> : HashMap<K, V>, MutableMap<K, V> {\r\n\r\n /**\r\n * The entry we use includes next/prev pointers for a doubly-linked circular\r\n * list with a head node. This reduces the special cases we have to deal with\r\n * in the list operations.\r\n\r\n * Note that we duplicate the key from the underlying hash map so we can find\r\n * the eldest entry. The alternative would have been to modify HashMap so more\r\n * of the code was directly usable here, but this would have added some\r\n * overhead to HashMap, or to reimplement most of the HashMap code here with\r\n * small modifications. Paying a small storage cost only if you use\r\n * LinkedHashMap and minimizing code size seemed like a better tradeoff\r\n */\r\n private class ChainEntry<K, V>(key: K, value: V) : AbstractMutableMap.SimpleEntry<K, V>(key, value) {\r\n internal var next: ChainEntry<K, V>? = null\r\n internal var prev: ChainEntry<K, V>? = null\r\n }\r\n\r\n private inner class EntrySet : AbstractMutableSet<MutableEntry<K, V>>() {\r\n\r\n private inner class EntryIterator : MutableIterator<MutableEntry<K, V>> {\r\n // The last entry that was returned from this iterator.\r\n private var last: ChainEntry<K, V>? = null\r\n\r\n // The next entry to return from this iterator.\r\n private var next: ChainEntry<K, V>? = null\r\n\r\n init {\r\n next = head\r\n// recordLastKnownStructure(map, this)\r\n }\r\n\r\n override fun hasNext(): Boolean {\r\n return next !== null\r\n }\r\n\r\n override fun next(): MutableEntry<K, V> {\r\n// checkStructuralChange(map, this)\r\n if (!hasNext()) throw NoSuchElementException()\r\n\r\n val current = next!!\r\n last = current\r\n next = current.next.takeIf { it !== head }\r\n return current\r\n }\r\n\r\n override fun remove() {\r\n check(last != null)\r\n// checkStructuralChange(map, this)\r\n\r\n last!!.remove()\r\n map.remove(last!!.key)\r\n// recordLastKnownStructure(map, this)\r\n last = null\r\n }\r\n }\r\n\r\n override fun add(element: MutableEntry<K, V>): Boolean = throw UnsupportedOperationException(\"Add is not supported on entries\")\r\n override fun clear() {\r\n this@LinkedHashMap.clear()\r\n }\r\n\r\n override operator fun contains(element: MutableEntry<K, V>): Boolean = containsEntry(element)\r\n\r\n override operator fun iterator(): MutableIterator<MutableEntry<K, V>> = EntryIterator()\r\n\r\n override fun remove(element: MutableEntry<K, V>): Boolean {\r\n if (contains(element)) {\r\n this@LinkedHashMap.remove(element.key)\r\n return true\r\n }\r\n return false\r\n }\r\n\r\n override val size: Int get() = this@LinkedHashMap.size\r\n }\r\n\r\n\r\n /*\r\n * The head of the insert order chain, which is a doubly-linked circular\r\n * list.\r\n *\r\n * The most recently inserted node is at the end of the chain, ie.\r\n * chain.prev.\r\n */\r\n private var head: ChainEntry<K, V>? = null\r\n\r\n /**\r\n * Add this node to the end of the chain.\r\n */\r\n private fun ChainEntry<K, V>.addToEnd() {\r\n // This entry is not in the list.\r\n check(next == null && prev == null)\r\n\r\n val _head = head\r\n if (_head == null) {\r\n head = this\r\n next = this\r\n prev = this\r\n } else {\r\n // Chain is valid.\r\n val _tail = checkNotNull(_head.prev)\r\n // Update me.\r\n prev = _tail\r\n next = _head\r\n // Update my new siblings: current head and old tail\r\n _head.prev = this\r\n _tail.next = this\r\n }\r\n }\r\n\r\n /**\r\n * Remove this node from the chain it is a part of.\r\n */\r\n private fun ChainEntry<K, V>.remove() {\r\n if (this.next === this) {\r\n // if this is single element,

remove head\r\n head = null\r\n } else {\r\n if (head === this) {\r\n // if this is first element, move head to next\r\n head = next\r\n }\r\n next!!.prev = prev\r\n prev!!.next = next\r\n }\r\n next = null\r\n prev = null\r\n }\r\n\r\n /*\r\n * The hashmap that keeps track of our entries and the chain. Note that we\r\n * duplicate the key here to eliminate changes to HashMap and minimize the\r\n * code here, at the expense of additional space.\r\n */\r\n private val map: HashMap<K, ChainEntry<K, V>>\r\n\r\n /**\r\n * Constructs an empty [LinkedHashMap] instance.\r\n */\r\n actual constructor() : super() {\r\n map = HashMap<K, ChainEntry<K, V>>()\r\n }\r\n\r\n internal constructor(backingMap: HashMap<K, Any>) : super() {\r\n @Suppress(\"UNCHECKED_CAST\") // expected to work due to erasure\r\n map = backingMap as HashMap<K, ChainEntry<K, V>>\r\n }\r\n\r\n /**\r\n * Constructs an empty [LinkedHashMap] instance.\r\n *\r\n * @param initialCapacity the initial capacity (ignored)\r\n * @param loadFactor the load factor (ignored)\r\n *\r\n * @throws IllegalArgumentException if the initial capacity or load factor are negative\r\n */\r\n @Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\n actual constructor(initialCapacity: Int, loadFactor: Float = 0.0f) : super(initialCapacity, loadFactor) {\r\n map = HashMap<K, ChainEntry<K, V>>()\r\n }\r\n\r\n actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\r\n\r\n /**\r\n * Constructs an instance of [LinkedHashMap] filled with the contents of the specified [original] map.\r\n */\r\n actual constructor(original: Map<out K, V>) {\r\n map = HashMap<K, ChainEntry<K, V>>()\r\n this.putAll(original)\r\n }\r\n\r\n actual override fun clear() {\r\n map.clear()\r\n head = null\r\n }\r\n\r\n\r\n\r\n// override fun clone(): Any {\r\n// return LinkedHashMap(this)\r\n// }\r\n\r\n\r\n actual override fun containsKey(key: K): Boolean = map.containsKey(key)\r\n\r\n actual override fun containsValue(value: V): Boolean {\r\n var node: ChainEntry<K, V> = head ?: return false\r\n do {\r\n if (node.value == value) {\r\n return true\r\n }\r\n node = node.next!!\r\n } while (node !== head)\r\n return false\r\n }\r\n\r\n\r\n override fun createEntrySet(): MutableSet<MutableMap.MutableEntry<K, V>> = EntrySet()\r\n\r\n actual override operator fun get(key: K): V? = map.get(key)?.value\r\n\r\n actual override fun put(key: K, value: V): V? {\r\n val old = map.get(key)\r\n if (old == null) {\r\n val newEntry = ChainEntry(key, value)\r\n map.put(key, newEntry)\r\n newEntry.addToEnd()\r\n return null\r\n } else {\r\n return old.setValue(value)\r\n }\r\n }\r\n\r\n actual override fun remove(key: K): V? {\r\n val entry = map.remove(key)\r\n if (entry != null) {\r\n entry.remove()\r\n return entry.value\r\n }\r\n return null\r\n }\r\n\r\n actual override val size: Int get() = map.size\r\n\r\n}\r\n\r\n/**\r\n * Constructs the specialized implementation of [LinkedHashMap] with [String] keys, which stores the keys as properties of\r\n * JS object without hashing them.\r\n */\r\npublic fun <V> linkedStringMapOf(vararg pairs: Pair<String, V>): LinkedHashMap<String, V> {\r\n return LinkedHashMap<String, V>(stringMapOf<Any>()).apply { putAll(pairs) }\r\n}","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n/*\r\n * Based on GWT LinkedHashSet\r\n * Copyright 2008 Google Inc.\r\n */\r\n\r\npackage kotlin.collections\r\n\r\n/**\r\n * The implementation of the [MutableSet] interface, backed by a [LinkedHashMap] instance.\r\n *\r\n * This implementation preserves the insertion order of elements during the iteration.\r\n */\r\npublic actual open class LinkedHashSet<E> : HashSet<E>, MutableSet<E> {\r\n\r\n internal constructor(map: LinkedHashMap<E, Any>) : super(map)\r\n\r\n /**\r\n * Constructs a new empty [LinkedHashSet].\r\n */\r\n actual constructor() : super(LinkedHashMap<E, Any>())\r\n\r\n /**\r\n * Constructs a new [LinkedHashSet] filled with the elements of the specified collection.\r\n */\r\n actual constructor(elements: Collection<E>) : super(LinkedHashMap<E, Any>()) {\r\n addAll(elements)\r\n }\r\n\r\n /**\r\n * Constructs a new empty [LinkedHashSet].\r\n *\r\n * @param initialCapacity the initial capacity (ignored)\r\n * @param loadFactor the load factor (ignored)\r\n *\r\n * @throws IllegalArgumentException if the initial capacity or load factor are negative\r\n */\r\n @Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\n actual constructor(initialCapacity: Int, loadFactor: Float = 0.0f) : super(LinkedHashMap<E, Any>(initialCapacity,

loadFactor))\r\n\r\n   actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\r\n\r\n//   public override fun clone(): Any {\r\n//   return LinkedHashSet(this)\r\n//   }\r\n\r\n}\r\n\r\n/**\r\n * Creates a new instance of the specialized implementation of [LinkedHashSet] with the specified [String] elements,\r\n * which elements the keys as properties of JS object without hashing them.\r\n */\r\npublic fun linkedStringSetOf(vararg elements: String): LinkedHashSet<String> {\r\n   return LinkedHashSet(linkedStringMapOf<Any>()).apply { addAll(elements) }\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin\r\n\r\nimport kotlin.contracts.*\r\n\r\n\r\n@Deprecated(\"Do not use Synchronized annotation in pure Kotlin/JS code\", level = DeprecationLevel.ERROR)\r\npublic typealias Synchronized = kotlin.jvm.Synchronized\r\n\r\n@Deprecated(\"Do not use Volatile annotation in pure Kotlin/JS code\", level = DeprecationLevel.ERROR)\r\npublic typealias Volatile = kotlin.jvm.Volatile\r\n\r\n@kotlin.internal.InlineOnly\r\npublic actual inline fun <R> synchronized(lock: Any, block: () -> R): R {\r\n   contract {\r\n   callsInPlace(block, InvocationKind.EXACTLY_ONCE)\r\n   }\r\n   return block()\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.io\r\n\r\ninternal abstract class BaseOutput {\r\n   open fun println() {\r\n   print(\"\\n\")\r\n   }\r\n\r\n   open fun println(message: Any?) {\r\n   print(message)\r\n   println()\r\n   }\r\n\r\n   abstract fun print(message: Any?)\r\n\r\n   open fun flush() {}\r\n}\r\n\r\n/** JsName used to make the declaration available outside of module to test it */\r\n@JsName(\"NodeJsOutput\")\r\ninternal class NodeJsOutput(val outputStream: dynamic) : BaseOutput() {\r\n   override fun print(message: Any?) {\r\n   // TODO: Using local variable because of bug in block decomposition lowering in IR backend\r\n   val messageString = String(message)\r\n   outputStream.write(messageString)\r\n   }\r\n}\r\n\r\n/** JsName used to make the declaration available outside of module to test it */\r\n@JsName(\"OutputToConsoleLog\")\r\ninternal class OutputToConsoleLog : BaseOutput() {\r\n   override fun print(message: Any?) {\r\n   console.log(message)\r\n   }\r\n\r\n   override fun println(message: Any?) {\r\n   console.log(message)\r\n   }\r\n\r\n   override fun println() {\r\n   console.log(\"\")\r\n   }\r\n}\r\n\r\n/** JsName used to make the declaration available outside of module to test it and use at try.kotl.in */\r\n@JsName(\"BufferedOutput\")\r\ninternal open class BufferedOutput : BaseOutput() {\r\n   var buffer = \"\"\r\n\r\n   override fun print(message: Any?) {\r\n   buffer += String(message)\r\n   }\r\n\r\n   override fun flush() {\r\n   buffer = \"\"\r\n   }\r\n}\r\n\r\n/** JsName used to make the declaration available outside of module to test it */\r\n@JsName(\"BufferedOutputToConsoleLog\")\r\ninternal class BufferedOutputToConsoleLog : BufferedOutput() {\r\n   override fun print(message: Any?) {\r\n   var s = String(message)\r\n   val i = s.lastIndexOf('\\n')\r\n   if (i >= 0) {\r\n   buffer += s.substring(0, i)\r\n   flush()\r\n   s = s.substring(i + 1)\r\n   }\r\n   buffer += s\r\n   }\r\n\r\n   override fun flush() {\r\n   console.log(buffer)\r\n   buffer = \"\"\r\n   }\r\n}\r\n\r\n/** JsName used to make the declaration available outside of module to test it and use at try.kotl.in */\r\n@JsName(\"output\")\r\ninternal var output = run {\r\n   val isNode: Boolean = js(\"typeof process !== 'undefined' && process.versions && !!process.versions.node\")\r\n   if (isNode) NodeJsOutput(js(\"process.stdout\")) else BufferedOutputToConsoleLog()\r\n}\r\n\r\n\r\n@kotlin.internal.InlineOnly\r\nprivate inline fun String(value: Any?): String = js(\"String\")(value)\r\n\r\n\r\n/** Prints the line separator to the standard output stream. */\r\npublic actual fun println() {\r\n   output.println()\r\n}\r\n\r\n\r\n/** Prints the given [message] and the line separator to the standard output stream. */\r\npublic actual fun println(message: Any?) {\r\n   output.println(message)\r\n}\r\n\r\n\r\n/** Prints the given [message] to the standard output stream. */\r\npublic actual fun print(message: Any?) {\r\n   output.print(message)\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.coroutines.js.internal\r\n\r\nimport kotlin.coroutines.Continuation\r\nimport kotlin.coroutines.EmptyCoroutineContext\r\n\r\n@PublishedApi\r\n@SinceKotlin(\"1.3\")\r\ninternal val

EmptyContinuation = Continuation<Any?>(EmptyCoroutineContext) { result ->\r\n result.getOrThrow()\r\n}","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.coroutines\r\n\r\nimport kotlin.coroutines.intrinsics.CoroutineSingletons.*\r\nimport kotlin.coroutines.intrinsics.COROUTINE_SUSPENDED\r\n\r\n@PublishedApi\r\n@SinceKotlin(\"1.3\")\r\ninternal actual class SafeContinuation<in T>\r\ninternal actual constructor(\r\n private val delegate: Continuation<T>,\r\n initialResult: Any?\r\n) : Continuation<T> {\r\n @PublishedApi\r\n internal actual constructor(delegate: Continuation<T>) : this(delegate, UNDECIDED)\r\n\r\n public actual override val context: CoroutineContext\r\n get() = delegate.context\r\n\r\n private var result: Any? = initialResult\r\n\r\n public actual override fun resumeWith(result: Result<T>) {\r\n val cur = this.result\r\n when {\r\n cur === UNDECIDED -> {\r\n this.result = result.value\r\n }\r\n cur === COROUTINE_SUSPENDED -> {\r\n this.result = RESUMED\r\n delegate.resumeWith(result)\r\n }\r\n else -> throw IllegalStateException(\"Already resumed\")\r\n }\r\n }\r\n\r\n @PublishedApi\r\n internal actual fun getOrThrow(): Any? {\r\n if (result === UNDECIDED) {\r\n result = COROUTINE_SUSPENDED\r\n return COROUTINE_SUSPENDED\r\n }\r\n val result = this.result\r\n return when {\r\n result === RESUMED -> COROUTINE_SUSPENDED // already called continuation, indicate COROUTINE_SUSPENDED upstream\r\n result is Result.Failure -> throw result.exception\r\n else -> result // either COROUTINE_SUSPENDED or data\r\n }\r\n }\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.js\r\n\r\n/**\r\n * Exposes the [Date API](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Date) to Kotlin.\r\n */\r\n@Suppress(\"NOT_DOCUMENTED\")\r\npublic external class Date() {\r\n public constructor(milliseconds: Number)\r\n\r\n public constructor(dateString: String)\r\n\r\n public constructor(year: Int, month: Int)\r\n\r\n public constructor(year: Int, month: Int, day: Int)\r\n\r\n public constructor(year: Int, month: Int, day: Int, hour: Int)\r\n\r\n public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int)\r\n\r\n public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int)\r\n\r\n public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int, millisecond: Number)\r\n\r\n public fun getDate(): Int\r\n\r\n public fun getDay(): Int\r\n\r\n public fun getFullYear(): Int\r\n\r\n public fun getHours(): Int\r\n\r\n public fun getMilliseconds(): Int\r\n\r\n public fun getMinutes(): Int\r\n\r\n public fun getMonth(): Int\r\n\r\n public fun getSeconds(): Int\r\n\r\n public fun getTime(): Double\r\n\r\n public fun getTimezoneOffset(): Int\r\n\r\n public fun getUTCDate(): Int\r\n\r\n public fun getUTCDay(): Int\r\n\r\n public fun getUTCFullYear(): Int\r\n\r\n public fun getUTCHours(): Int\r\n\r\n public fun getUTCMilliseconds(): Int\r\n\r\n public fun getUTCMinutes(): Int\r\n\r\n public fun getUTCMonth(): Int\r\n\r\n public fun getUTCSeconds(): Int\r\n\r\n public fun toDateString(): String\r\n\r\n public fun toISOString(): String\r\n\r\n public fun toJSON(): Json\r\n\r\n public fun toLocaleDateString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally): String\r\n\r\n public fun toLocaleDateString(locales: String, options: LocaleOptions = definedExternally): String\r\n\r\n public fun toLocaleString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally): String\r\n\r\n public fun toLocaleString(locales: String, options: LocaleOptions = definedExternally): String\r\n\r\n public fun toLocaleTimeString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally): String\r\n\r\n public fun toLocaleTimeString(locales: String, options: LocaleOptions = definedExternally): String\r\n\r\n public fun toTimeString(): String\r\n\r\n public fun toUTCString(): String\r\n\r\n public companion object {\r\n public fun now(): Double\r\n\r\n public fun parse(dateString: String): Double\r\n\r\n public fun UTC(year: Int, month: Int): Double\r\n\r\n public fun UTC(year: Int, month: Int, day: Int): Double\r\n\r\n public fun UTC(year: Int, month: Int, day: Int, hour: Int): Double\r\n\r\n public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int): Double\r\n\r\n public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int): Double\r\n\r\n public fun UTC(year: Int, month: Int,

day: Int, hour: Int, minute: Int, second: Int, millisecond: Number): Double\r\n }\r\n\r\n public interface LocaleOptions {\r\n public var localeMatcher: String?\r\n\r\n public var timeZone: String?\r\n\r\n public var hour12: Boolean?\r\n\r\n public var formatMatcher: String?\r\n\r\n public var weekday: String?\r\n\r\n public var era: String?\r\n\r\n public var year: String?\r\n\r\n public var month: String?\r\n\r\n public var day: String?\r\n\r\n public var hour: String?\r\n\r\n public var minute: String?\r\n\r\n public var second: String?\r\n\r\n public var timeZoneName: String?\r\n }\r\n}\r\n\r\npublic inline fun dateLocaleOptions(init: Date.LocaleOptions.() -> Unit): Date.LocaleOptions {\r\n val result = js(\"new Object()\").unsafeCast<Date.LocaleOptions>()\r\n init(result)\r\n return result\r\n}","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.dom\r\n\r\nimport org.w3c.dom.*\r\n\r\n/**\r\n * Creates a new element with the specified [name].\r\n *\r\n * The element is initialized with the speicifed [init] function.\r\n */\r\npublic fun Document.createElement(name: String, init: Element.() -> Unit): Element = createElement(name).apply(init)\r\n\r\n/**\r\n * Appends a newly created element with the specified [name] to this element.\r\n *\r\n * The element is initialized with the speicifed [init] function.\r\n */\r\npublic fun Element.appendElement(name: String, init: Element.() -> Unit): Element =\r\n ownerDocument!!.createElement(name, init).also { appendChild(it) }\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.dom\r\n\r\nimport org.w3c.dom.*\r\n\r\n/** Returns true if the element has the given CSS class style in its 'class' attribute */\r\nfun Element.hasClass(cssClass: String): Boolean = className.matches(\"\"\"(^|.*\\s+)$cssClass($|\\s+.*)\"\"\".toRegex())\r\n\r\n/**\r\n * Adds CSS class to element. Has no effect if all specified classes are already in class attribute of the element\r\n *\r\n * @return true if at least one class has been added\r\n */\r\nfun Element.addClass(vararg cssClasses: String): Boolean {\r\n val missingClasses = cssClasses.filterNot { hasClass(it) }\r\n if (missingClasses.isNotEmpty()) {\r\n val presentClasses = className.trim()\r\n className = buildString {\r\n append(presentClasses)\r\n if (!presentClasses.isEmpty()) {\r\n append(\" \")\r\n }\r\n missingClasses.joinTo(this, \" \")\r\n }\r\n return true\r\n }\r\n\r\n return false\r\n}\r\n\r\n/**\r\n * Removes all [cssClasses] from element. Has no effect if all specified classes are missing in class attribute of the element\r\n *\r\n * @return true if at least one class has been removed\r\n */\r\nfun Element.removeClass(vararg cssClasses: String): Boolean {\r\n if (cssClasses.any { hasClass(it) }) {\r\n val toBeRemoved = cssClasses.toSet()\r\n className = className.trim().split(\"\\\\s+\".toRegex()).filter { it !in toBeRemoved }.joinToString(\" \")\r\n return true\r\n }\r\n\r\n return false\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"StringsKt\")\r\n\r\n\r\npackage kotlin.text\r\n\r\n\r\n/**\r\n * Converts the string into a regular expression [Regex] with the default options.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun String.toRegex(): Regex = Regex(this)\r\n\r\n\r\n/**\r\n * Converts the string into a regular expression [Regex] with the specified single [option].\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun String.toRegex(option: RegexOption): Regex = Regex(this, option)\r\n\r\n\r\n/**\r\n * Converts the string into a regular expression [Regex] with the specified set of [options].\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun String.toRegex(options: Set<RegexOption>): Regex = Regex(this, options)\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"StringsKt\")\r\n\r\n\r\npackage kotlin.text\r\n\r\n\r\n/**\r\n * Builds new string by populating newly created [StringBuilder] using provided [builderAction]\r\n * and then converting it to [String].\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun buildString(builderAction: StringBuilder.() -> Unit): String =\r\n

StringBuilder().apply(builderAction).toString()\r\n\r\n/**\r\n * Builds new string by populating newly created [StringBuilder] initialized with the given [capacity]\r\n * using provided [builderAction] and then converting it to [String].\r\n */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun buildString(capacity: Int, builderAction: StringBuilder.() -> Unit): String =\r\n StringBuilder(capacity).apply(builderAction).toString()\r\n\r\n/**\r\n * Appends all arguments to the given [Appendable].\r\n */\r\npublic fun <T : Appendable> T.append(vararg value: CharSequence?): T {\r\n for (item in value)\r\n append(item)\r\n return this\r\n}\r\n\r\n/**\r\n * Appends all arguments to the given StringBuilder.\r\n */\r\npublic fun StringBuilder.append(vararg value: String?): StringBuilder {\r\n for (item in value)\r\n append(item)\r\n return this\r\n}\r\n\r\n/**\r\n * Appends all arguments to the given StringBuilder.\r\n */\r\npublic fun StringBuilder.append(vararg value: Any?): StringBuilder {\r\n for (item in value)\r\n append(item)\r\n return this\r\n}\r\n\r\n\r\ninternal fun <T> Appendable.appendElement(element: T, transform: ((T) -> CharSequence)?) {\r\n when {\r\n transform != null -> append(transform(element))\r\n element is CharSequence? -> append(element)\r\n element is Char -> append(element)\r\n else -> append(element.toString())\r\n }\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.dom\r\n\r\nimport org.w3c.dom.*\r\n\r\n/**\r\n * Gets a value indicating whether this node is a TEXT_NODE or a CDATA_SECTION_NODE.\r\n */\r\npublic val Node.isText: Boolean\r\n get() = nodeType == Node.TEXT_NODE || nodeType == Node.CDATA_SECTION_NODE\r\n\r\n/**\r\n * Gets a value indicating whether this node is an [Element].\r\n */\r\npublic val Node.isElement: Boolean\r\n get() = nodeType == Node.ELEMENT_NODE\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage org.w3c.dom.events\r\n\r\npublic fun EventListener(handler: (Event) -> Unit): EventListener = EventListenerHandler(handler)\r\n\r\nprivate class EventListenerHandler(private val handler: (Event) -> Unit) : EventListener {\r\n public override fun handleEvent(event: Event) {\r\n handler(event)\r\n }\r\n\r\n public override fun toString(): String = \"EventListenerHandler($handler)\"\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage org.w3c.dom\r\n\r\npublic external interface ItemArrayLike<out T> {\r\n val length: Int\r\n fun item(index: Int): T?\r\n}\r\n\r\n/**\r\n * Returns the view of this `ItemArrayLike<T>` collection as `List<T>`\r\n */\r\npublic fun <T> ItemArrayLike<T>.asList(): List<T> = object : AbstractList<T>() {\r\n override val size: Int get() = this@asList.length\r\n\r\n override fun get(index: Int): T = when (index) {\r\n in 0..lastIndex -> this@asList.item(index).unsafeCast<T>()\r\n else -> throw IndexOutOfBoundsException(\"index $index is not in range [0..$lastIndex]\")\r\n }\r\n}","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.dom\r\n\r\nimport org.w3c.dom.*\r\n\r\n/** Removes all the children from this node. */\r\npublic fun Node.clear() {\r\n while (hasChildNodes()) {\r\n removeChild(firstChild!!)\r\n }\r\n}\r\n\r\n/**\r\n * Creates text node and append it to the element.\r\n *\r\n * @return this element\r\n */\r\nfun Element.appendText(text: String): Element {\r\n appendChild(ownerDocument!!.createTextNode(text))\r\n return this\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.js\r\n\r\n/**\r\n * Reinterprets this value as a value of the [dynamic type](/docs/reference/dynamic-type.html).\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Any?.asDynamic(): dynamic = this\r\n\r\n/**\r\n * Reinterprets this value as a value of the specified type [T] without any actual type checking.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> Any?.unsafeCast(): @kotlin.internal.NoInfer T = this.asDynamic()\r\n\r\n/**\r\n * Reinterprets this `dynamic` value as a value of the specified type [T] without any actual type checking.\r\n

*/\r\n@kotlin.internal.DynamicExtension\r\n@JsName(\"unsafeCastDynamic\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> dynamic.unsafeCast(): @kotlin.internal.NoInfer T = this\r\n\r\n/**\r\n * Allows to iterate this `dynamic` object in the following cases:\r\n * - when it has an `iterator` function,\r\n * - when it is an array\r\n * - when it is an instance of [kotlin.collections.Iterable]\r\n */\r\n@kotlin.internal.DynamicExtension\r\npublic operator fun dynamic.iterator(): Iterator<dynamic> {\r\n   val r: Any? = this\r\n\r\n   return when {\r\n   this[\"iterator\"] != null ->\r\n   this[\"iterator\"]()\r\n   isArrayish(r) ->\r\n   r.unsafeCast<Array<*>>().iterator()\r\n\r\n   else ->\r\n   (r as Iterable<*>).iterator()\r\n   }\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin\r\n\r\n// NOTE: Do not author your exceptions as they are written in this file, instead use this template:\r\n/*\r\npublic open class MyException : Exception {\r\n   constructor() : super()\r\n   constructor(message: String?) : super(message)\r\n   constructor(message: String?, cause: Throwable?) : super(message, cause)\r\n   constructor(cause: Throwable?) : super(cause)\r\n}\r\n*/\r\n\r\n\r\n// TODO: remove workarounds for KT-22053 from direct Throwable inheritors\r\n// TODO: remove primary constructors, make all secondary KT-22055\r\n\r\n@Suppress(\"USELESS_ELVIS_RIGHT_IS_NULL\")\r\npublic actual open class Error actual constructor(message: String?, cause: Throwable?) : Throwable(message, cause ?: null) {\r\n   actual constructor() : this(null, null) {\r\n   Error::class.js.asDynamic().call(this, null, null)\r\n   }\r\n\r\n   actual constructor(message: String?) : this(message, null) {\r\n   Error::class.js.asDynamic().call(this, message, null)\r\n   }\r\n\r\n   actual constructor(cause: Throwable?) : this(undefined, cause) {\r\n   Error::class.js.asDynamic().call(this, undefined, cause)\r\n   }\r\n}\r\n\r\n@Suppress(\"USELESS_ELVIS_RIGHT_IS_NULL\")\r\npublic actual open class Exception actual constructor(message: String?, cause: Throwable?) : Throwable(message, cause ?: null) {\r\n   actual constructor() : this(null, null) {\r\n   Exception::class.js.asDynamic().call(this, null, null)\r\n   }\r\n\r\n   actual constructor(message: String?) : this(message, null) {\r\n   Exception::class.js.asDynamic().call(this, message, null)\r\n   }\r\n\r\n   actual constructor(cause: Throwable?) : this(undefined, cause) {\r\n   Exception::class.js.asDynamic().call(this, undefined, cause)\r\n   }\r\n}\r\n\r\npublic actual open class RuntimeException actual constructor(message: String?, cause: Throwable?) : Exception(message, cause) {\r\n   actual constructor() : this(null, null)\r\n   actual constructor(message: String?) : this(message, null)\r\n   actual constructor(cause: Throwable?) : this(undefined, cause)\r\n}\r\n\r\npublic actual open class IllegalArgumentException actual constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\r\n   actual constructor() : this(null, null)\r\n   actual constructor(message: String?) : this(message, null)\r\n   actual constructor(cause: Throwable?) : this(undefined, cause)\r\n}\r\n\r\npublic actual open class IllegalStateException actual constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\r\n   actual constructor() : this(null, null)\r\n   actual constructor(message: String?) : this(message, null)\r\n   actual constructor(cause: Throwable?) : this(undefined, cause)\r\n}\r\n\r\npublic actual open class IndexOutOfBoundsException actual constructor(message: String?) : RuntimeException(message) {\r\n   actual constructor() : this(null)\r\n}\r\n\r\npublic actual open class ConcurrentModificationException actual constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\r\n   actual constructor() : this(null, null)\r\n   actual constructor(message: String?) : this(message, null)\r\n   actual constructor(cause: Throwable?) : this(undefined, cause)\r\n}\r\n\r\npublic actual open class UnsupportedOperationException actual constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\r\n   actual constructor() : this(null, null)\r\n   actual constructor(message: String?) : this(message, null)\r\n   actual constructor(cause: Throwable?) : this(undefined, cause)\r\n}\r\n\r\npublic actual open class NumberFormatException actual constructor(message: String?) : IllegalArgumentException(message) {\r\n   actual constructor() : this(null)\r\n}\r\n\r\npublic actual open class NullPointerException actual constructor(message: String?) : RuntimeException(message) {\r\n   actual constructor() : this(null)\r\n}\r\n\r\npublic actual open class ClassCastException actual constructor(message: String?) : RuntimeException(message) {\r\n   actual constructor() : this(null)\r\n}\r\n\r\npublic actual open class AssertionError private constructor(message: String?, cause: Throwable?) : Error(message, cause) {\r\n   actual constructor() : this(null)\r\n   constructor(message: String?) :

this(message, null)\r\n   actual constructor(message: Any?) : this(message.toString(), message as? Throwable)\r\n}\r\n\r\npublic actual open class NoSuchElementException actual constructor(message: String?) : RuntimeException(message) {\r\n   actual constructor() : this(null)\r\n}\r\n\r\n@SinceKotlin(\"1.3\")\r\npublic actual open class ArithmeticException actual constructor(message: String?) : RuntimeException(message) {\r\n   actual constructor() : this(null)\r\n}\r\n\r\npublic actual open class NoWhenBranchMatchedException actual constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\r\n   actual constructor() : this(null, null)\r\n   actual constructor(message: String?) : this(message, null)\r\n   actual constructor(cause: Throwable?) : this(undefined, cause)\r\n}\r\n\r\npublic actual open class UninitializedPropertyAccessException actual constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\r\n   actual constructor() : this(null, null)\r\n   actual constructor(message: String?) : this(message, null)\r\n   actual constructor(cause: Throwable?) : this(undefined, cause)\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// a package is omitted to get declarations directly under the module\r\n\r\n@JsName(\"throwNPE\")\r\ninternal fun throwNPE(message: String) {\r\n   throw NullPointerException(message)\r\n}\r\n\r\n@JsName(\"throwCCE\")\r\ninternal fun throwCCE() {\r\n   throw ClassCastException(\"Illegal cast\")\r\n}\r\n\r\n@JsName(\"throwISE\")\r\ninternal fun throwISE(message: String) {\r\n   throw IllegalStateException(message)\r\n}\r\n\r\n@JsName(\"throwUPAE\")\r\ninternal fun throwUPAE(propertyName: String) {\r\n   throw UninitializedPropertyAccessException(\"lateinit property ${propertyName} has not been initialized\")\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmName(\"GroupingKt\")\r\n@file:kotlin.jvm.JvmMultifileClass\r\n\r\npackage kotlin.collections\r\n\r\n/**\r\n * Represents a source of elements with a [keyOf] function, which can be applied to each element to get its key.\r\n *\r\n * A [Grouping] structure serves as an intermediate step in group-and-fold operations:\r\n * they group elements by their keys and then fold each group with some aggregating operation.\r\n *\r\n * It is created by attaching `keySelector: (T) -> K` function to a source of elements.\r\n * To get an instance of [Grouping] use one of `groupingBy` extension functions:\r\n * - [Iterable.groupingBy]\r\n * - [Sequence.groupingBy]\r\n * - [Array.groupingBy]\r\n * - [CharSequence.groupingBy]\r\n *\r\n * For the list of group-and-fold operations available, see the [extension functions](#extension-functions) for `Grouping`.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic interface Grouping<T, out K> {\r\n   /** Returns an [Iterator] over the elements of the source of this grouping. */\r\n   fun sourceIterator(): Iterator<T>\r\n   /** Extracts the key of an [element]. */\r\n   fun keyOf(element: T): K\r\n}\r\n\r\n/**\r\n * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially,\r\n * passing the previously accumulated value and the current element as arguments, and stores the results in a new map.\r\n *\r\n * The key for each element is provided by the [Grouping.keyOf] function.\r\n *\r\n * @param operation function is invoked on each element with the following parameters:\r\n * - `key`: the key of the group this element belongs to;\r\n * - `accumulator`: the current value of the accumulator of the group, can be `null` if it's the first `element` encountered in the group;\r\n * - `element`: the element from the source being aggregated;\r\n * - `first`: indicates whether it's the first `element` encountered in the group.\r\n *\r\n * @return a [Map] associating the key of each group with the result of aggregation of the group elements.\r\n * @sample samples.collections.Grouping.aggregateByRadix\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic inline fun <T, K, R> Grouping<T, K>.aggregate(\r\n   operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R\r\n): Map<K, R> {\r\n   return aggregateTo(mutableMapOf<K, R>(), operation)\r\n}\r\n\r\n/**\r\n * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially,\r\n * passing the previously accumulated value and the current element as arguments,\r\n * and stores the results in the given [destination] map.\r\n *\r\n * The key for each element is provided by the [Grouping.keyOf] function.\r\n *\r\n * @param operation a function that is invoked on each element with the following parameters:\r\n * - `key`: the key of the group this element belongs to;\r\n * - `accumulator`: the current value of the accumulator of the group, can be `null` if it's the first `element` encountered in the group;\r\n *

- `element`: the element from the source being aggregated;\r\n * - `first`: indicates whether it's the first `element` encountered in the group.\r\n *\r\n * If the [destination] map already has a value corresponding to some key,\r\n * then the elements being aggregated for that key are never considered as `first`.\r\n *\r\n * @return the [destination] map associating the key of each group with the result of aggregation of the group elements.\r\n * @sample samples.collections.Grouping.aggregateByRadixTo\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.aggregateTo(\r\n   destination: M,\r\n   operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R\r\n): M {\r\n   for (e in this.sourceIterator()) {\r\n   val key = keyOf(e)\r\n   val accumulator = destination[key]\r\n   destination[key] = operation(key, accumulator, e, accumulator == null && !destination.containsKey(key))\r\n   }\r\n   return destination\r\n}\r\n\r\n/**\r\n * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially,\r\n * passing the previously accumulated value and the current element as arguments, and stores the results in a new map.\r\n * An initial value of accumulator is provided by [initialValueSelector] function.\r\n *\r\n * @param initialValueSelector a function that provides an initial value of accumulator for each group.\r\n * It's invoked with parameters:\r\n * - `key`: the key of the group;\r\n * - `element`: the first element being encountered in that group.\r\n *\r\n * @param operation a function that is invoked on each element with the following parameters:\r\n * - `key`: the key of the group this element belongs to;\r\n * - `accumulator`: the current value of the accumulator of the group;\r\n * - `element`: the element from the source being accumulated.\r\n *\r\n * @return a [Map] associating the key of each group with the result of accumulating the group elements.\r\n * @sample samples.collections.Grouping.foldByEvenLengthWithComputedInitialValue\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic inline fun <T, K, R> Grouping<T, K>.fold(\r\n   initialValueSelector: (key: K, element: T) -> R,\r\n   operation: (key: K, accumulator: R, element: T) -> R\r\n): Map<K, R> =\r\n   @Suppress(\"UNCHECKED_CAST\")\r\n   aggregate { key, acc, e, first -> operation(key, if (first) initialValueSelector(key, e) else acc as R, e) }\r\n\r\n/**\r\n * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially,\r\n * passing the previously accumulated value and the current element as arguments,\r\n * and stores the results in the given [destination] map.\r\n * An initial value of accumulator is provided by [initialValueSelector] function.\r\n *\r\n * @param initialValueSelector a function that provides an initial value of accumulator for each group.\r\n * It's invoked with parameters:\r\n * - `key`: the key of the group;\r\n * - `element`: the first element being encountered in that group.\r\n *\r\n * If the [destination] map already has a value corresponding to some key, that value is used as an initial value of\r\n * the accumulator for that group and the [initialValueSelector] function is not called for that group.\r\n *\r\n * @param operation a function that is invoked on each element with the following parameters:\r\n * - `key`: the key of the group this element belongs to;\r\n * - `accumulator`: the current value of the accumulator of the group;\r\n * - `element`: the element from the source being accumulated.\r\n *\r\n * @return the [destination] map associating the key of each group with the result of accumulating the group elements.\r\n * @sample samples.collections.Grouping.foldByEvenLengthWithComputedInitialValueTo\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.foldTo(\r\n   destination: M,\r\n   initialValueSelector: (key: K, element: T) -> R,\r\n   operation: (key: K, accumulator: R, element: T) -> R\r\n): M =\r\n   @Suppress(\"UNCHECKED_CAST\")\r\n   aggregateTo(destination) { key, acc, e, first -> operation(key, if (first) initialValueSelector(key, e) else acc as R, e) }\r\n\r\n\r\n/**\r\n * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially,\r\n * passing the previously accumulated value and the current element as arguments, and stores the results in a new map.\r\n * An initial value of accumulator is the same [initialValue] for each group.\r\n *\r\n * @param operation a function that is invoked on each element with the following parameters:\r\n * - `accumulator`: the current value of the accumulator of the group;\r\n * - `element`: the element from the source being accumulated.\r\n *\r\n * @return a [Map] associating the key of each group with the result of accumulating the group elements.\r\n * @sample samples.collections.Grouping.foldByEvenLengthWithConstantInitialValue\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic inline fun <T, K, R> Grouping<T, K>.fold(\r\n   initialValue: R,\r\n   operation: (accumulator: R, element: T) -> R\r\n): Map<K, R> =\r\n   @Suppress(\"UNCHECKED_CAST\")\r\n

aggregate { _, acc, e, first -> operation(if (first) initialValue else acc as R, e) }\r\n\r\n/**\r\n * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially,\r\n * passing the previously accumulated value and the current element as arguments,\r\n * and stores the results in the given [destination] map.\r\n * An initial value of accumulator is the same [initialValue] for each group.\r\n *\r\n * If the [destination] map already has a value corresponding to the key of some group,\r\n * that value is used as an initial value of the accumulator for that group.\r\n *\r\n * @param operation a function that is invoked on each element with the following parameters:\r\n * - `accumulator`: the current value of the accumulator of the group;\r\n * - `element`: the element from the source being accumulated.\r\n *\r\n * @return the [destination] map associating the key of each group with the result of accumulating the group elements.\r\n * @sample samples.collections.Grouping.foldByEvenLengthWithConstantInitialValueTo\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.foldTo(\r\n destination: M,\r\n initialValue: R,\r\n operation: (accumulator: R, element: T) -> R\r\n): M =\r\n @Suppress(\"UNCHECKED_CAST\")\r\n aggregateTo(destination) { _, acc, e, first -> operation(if (first) initialValue else acc as R, e) }\r\n\r\n\r\n/**\r\n * Groups elements from the [Grouping] source by key and applies the reducing [operation] to the elements of each group\r\n * sequentially starting from the second element of the group,\r\n * passing the previously accumulated value and the current element as arguments,\r\n * and stores the results in a new map.\r\n * An initial value of accumulator is the first element of the group.\r\n *\r\n * @param operation a function that is invoked on each subsequent element of the group with the following parameters:\r\n * - `key`: the key of the group this element belongs to;\r\n * - `accumulator`: the current value of the accumulator of the group;\r\n * - `element`: the element from the source being accumulated.\r\n *\r\n * @return a [Map] associating the key of each group with the result of accumulating the group elements.\r\n * @sample samples.collections.Grouping.reduceByMaxVowels\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic inline fun <S, T : S, K> Grouping<T, K>.reduce(\r\n operation: (key: K, accumulator: S, element: T) -> S\r\n): Map<K, S> =\r\n aggregate { key, acc, e, first ->\r\n   @Suppress(\"UNCHECKED_CAST\")\r\n   if (first) e else operation(key, acc as S, e)\r\n }\r\n\r\n/**\r\n * Groups elements from the [Grouping] source by key and applies the reducing [operation] to the elements of each group\r\n * sequentially starting from the second element of the group,\r\n * passing the previously accumulated value and the current element as arguments,\r\n * and stores the results in the given [destination] map.\r\n * An initial value of accumulator is the first element of the group.\r\n *\r\n * If the [destination] map already has a value corresponding to the key of some group,\r\n * that value is used as an initial value of the accumulator for that group and the first element of that group is also\r\n * subjected to the [operation].\r\n\r\n * @param operation a function that is invoked on each subsequent element of the group with the following parameters:\r\n * - `accumulator`: the current value of the accumulator of the group;\r\n * - `element`: the element from the source being folded;\r\n *\r\n * @return the [destination] map associating the key of each group with the result of accumulating the group elements.\r\n * @sample samples.collections.Grouping.reduceByMaxVowelsTo\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic inline fun <S, T : S, K, M : MutableMap<in K, S>> Grouping<T, K>.reduceTo(\r\n destination: M,\r\n operation: (key: K, accumulator: S, element: T) -> S\r\n): M =\r\n aggregateTo(destination) { key, acc, e, first ->\r\n   @Suppress(\"UNCHECKED_CAST\")\r\n   if (first) e else operation(key, acc as S, e)\r\n }\r\n\r\n\r\n/**\r\n * Groups elements from the [Grouping] source by key and counts elements in each group to the given [destination] map.\r\n *\r\n * If the [destination] map already has a value corresponding to the key of some group,\r\n * that value is used as an initial value of the counter for that group.\r\n *\r\n * @return the [destination] map associating the key of each group with the count of elements in the group.\r\n *\r\n * @sample samples.collections.Grouping.groupingByEachCount\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic fun <T, K, M : MutableMap<in K, Int>> Grouping<T, K>.eachCountTo(destination: M): M =\r\n foldTo(destination, 0) { acc, _ -> acc + 1 }\r\n\r\n/*\r\n/**\r\n * Groups elements from the [Grouping] source by key and sums values provided by the [valueSelector] function for elements in each group\r\n * to the given [destination] map.\r\n *\r\n *\r\n * If the [destination] map already has a value corresponding to the key of some group,\r\n * that value is used as an initial value of the sum for that group.\r\n *\r\n * @return the [destination] map associating the key of each group with the

sum of elements in the group.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic inline fun <T, K, M : MutableMap<in K, Int>> Grouping<T, K>.eachSumOfTo(destination: M, valueSelector: (T) -> Int): M =\r\n foldTo(destination, 0) { acc, e -> acc + valueSelector(e)}\r\n*/\r\n\r\n\r\n/*\r\n// TODO: sum by long and by double overloads\r\n\r\npublic inline fun <T, K, M : MutableMap<in K, Long>> Grouping<T, K>.sumEachByLongTo(destination: M, valueSelector: (T) -> Long): M =\r\n foldTo(destination, 0L) { acc, e -> acc + valueSelector(e)}\r\n\r\npublic inline fun <T, K> Grouping<T, K>.sumEachByLong(valueSelector: (T) -> Long): Map<K, Long> =\r\n fold(0L) { acc, e -> acc + valueSelector(e)}\r\n\r\npublic inline fun <T, K, M : MutableMap<in K, Double>> Grouping<T, K>.sumEachByDoubleTo(destination: M, valueSelector: (T) -> Double): M =\r\n foldTo(destination, 0.0) { acc, e -> acc + valueSelector(e)}\r\n\r\npublic inline fun <T, K> Grouping<T, K>.sumEachByDouble(valueSelector: (T) -> Double): Map<K, Double> =\r\n fold(0.0) { acc, e -> acc + valueSelector(e)}\r\n*/\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\npackage kotlin.collections\r\n\r\n/**\r\n * Groups elements from the [Grouping] source by key and counts elements in each group.\r\n *\r\n * @return a [Map] associating the key of each group with the count of element in the group.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic actual fun <T, K> Grouping<T, K>.eachCount(): Map<K, Int> =\r\n fold(0) { acc, _ -> acc + 1 }\r\n\r\n/*\r\n/**\r\n * Groups elements from the [Grouping] source by key and sums values provided by the [valueSelector] function for elements in each group.\r\n *\r\n * @return a [Map] associating the key of each group with the count of element in the group.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic inline fun <T, K> Grouping<T, K>.eachSumOf(valueSelector: (T) -> Int): Map<K, Int> =\r\n fold(0) { acc, e -> acc + valueSelector(e) }\r\n*/","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\npackage kotlin.js\r\n\r\n/**\r\n * Exposes the JavaScript [Math object](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/Math) to Kotlin.\r\n */\r\n@Deprecated(\"Use top-level functions from kotlin.math package instead.\", level = DeprecationLevel.WARNING)\r\npublic external object Math {\r\n @Deprecated(\"Use kotlin.math.PI instead.\", ReplaceWith(\"PI\", \"kotlin.math.PI\"), level = DeprecationLevel.ERROR)\r\n public val PI: Double\r\n @Deprecated(\"Use Random.nextDouble instead\", ReplaceWith(\"kotlin.random.Random.nextDouble()\", \"kotlin.random.Random\"), level = DeprecationLevel.WARNING)\r\n public fun random(): Double\r\n @Deprecated(\"Use kotlin.math.abs instead.\", ReplaceWith(\"abs(value)\", \"kotlin.math.abs\"), level = DeprecationLevel.ERROR)\r\n public fun abs(value: Double): Double\r\n @Deprecated(\"Use kotlin.math.acos instead.\", ReplaceWith(\"acos(value)\", \"kotlin.math.acos\"), level = DeprecationLevel.ERROR)\r\n public fun acos(value: Double): Double\r\n @Deprecated(\"Use kotlin.math.asin instead.\", ReplaceWith(\"asin(value)\", \"kotlin.math.asin\"), level = DeprecationLevel.ERROR)\r\n public fun asin(value: Double): Double\r\n @Deprecated(\"Use kotlin.math.atan instead.\", ReplaceWith(\"atan(value)\", \"kotlin.math.atan\"), level = DeprecationLevel.ERROR)\r\n public fun atan(value: Double): Double\r\n @Deprecated(\"Use kotlin.math.atan2 instead.\", ReplaceWith(\"atan2(y, x)\", \"kotlin.math.atan2\"), level = DeprecationLevel.ERROR)\r\n public fun atan2(y: Double, x: Double): Double\r\n @Deprecated(\"Use kotlin.math.cos instead.\", ReplaceWith(\"cos(value)\", \"kotlin.math.cos\"), level = DeprecationLevel.ERROR)\r\n public fun cos(value: Double): Double\r\n @Deprecated(\"Use kotlin.math.sin instead.\", ReplaceWith(\"sin(value)\", \"kotlin.math.sin\"), level = DeprecationLevel.ERROR)\r\n public fun sin(value: Double): Double\r\n @Deprecated(\"Use kotlin.math.exp instead.\", ReplaceWith(\"exp(value)\", \"kotlin.math.exp\"), level = DeprecationLevel.ERROR)\r\n public fun exp(value: Double): Double\r\n @Deprecated(\"Use maxOf or kotlin.math.max instead\", level = DeprecationLevel.ERROR)\r\n public fun max(vararg values: Int): Int\r\n @Deprecated(\"Use maxOf or kotlin.math.max instead\", level = DeprecationLevel.ERROR)\r\n public fun max(vararg values: Float): Float\r\n @Deprecated(\"Use maxOf or kotlin.math.max instead\", level = DeprecationLevel.ERROR)\r\n public fun max(vararg values: Double): Double\r\n @Deprecated(\"Use minOf or kotlin.math.min instead\", level = DeprecationLevel.ERROR)\r\n public fun min(vararg values: Int): Int\r\n @Deprecated(\"Use minOf or kotlin.math.min instead\", level =

DeprecationLevel.ERROR)\r\n   public fun min(vararg values: Float): Float\r\n   @Deprecated(\"Use minOf or kotlin.math.min instead\", level = DeprecationLevel.ERROR)\r\n   public fun min(vararg values: Double): Double\r\n   @Deprecated(\"Use kotlin.math.sqrt instead.\", ReplaceWith(\"sqrt(value)\", \"kotlin.math.sqrt\"), level = DeprecationLevel.ERROR)\r\n   public fun sqrt(value: Double): Double\r\n   @Deprecated(\"Use kotlin.math.tan instead.\", ReplaceWith(\"tan(value)\", \"kotlin.math.tan\"), level = DeprecationLevel.ERROR)\r\n   public fun tan(value: Double): Double\r\n   @Deprecated(\"Use kotlin.math.ln instead.\", ReplaceWith(\"ln(value)\", \"kotlin.math.ln\"), level = DeprecationLevel.ERROR)\r\n   public fun log(value: Double): Double\r\n   @Deprecated(\"Use kotlin.math.pow instead.\", ReplaceWith(\"base.pow(exp)\", \"kotlin.math.pow\"), level = DeprecationLevel.ERROR)\r\n   public fun pow(base: Double, exp: Double): Double\r\n   @Deprecated(\"Use kotlin.math.round instead.\", ReplaceWith(\"round(value)\", \"kotlin.math.round\"), level = DeprecationLevel.ERROR)\r\n   public fun round(value: Number): Int\r\n   @Deprecated(\"Use kotlin.math.floor instead.\", ReplaceWith(\"floor(value)\", \"kotlin.math.floor\"), level = DeprecationLevel.ERROR)\r\n   public fun floor(value: Number): Int\r\n   @Deprecated(\"Use kotlin.math.ceil instead.\", ReplaceWith(\"ceil(value)\", \"kotlin.math.ceil\"), level = DeprecationLevel.ERROR)\r\n   public fun ceil(value: Number): Int\r\n\r\n   @PublishedApi\r\n   internal fun trunc(value: Number): Double\r\n   @PublishedApi\r\n   internal fun sign(value: Number): Double\r\n\r\n   @PublishedApi\r\n   internal fun sinh(value: Double): Double\r\n   @PublishedApi\r\n   internal fun cosh(value: Double): Double\r\n   @PublishedApi\r\n   internal fun tanh(value: Double): Double\r\n   @PublishedApi\r\n   internal fun asinh(value: Double): Double\r\n   @PublishedApi\r\n   internal fun acosh(value: Double): Double\r\n   @PublishedApi\r\n   internal fun atanh(value: Double): Double\r\n\r\n   @PublishedApi\r\n   internal fun hypot(x: Double, y: Double): Double\r\n\r\n   @PublishedApi\r\n   internal fun expm1(value: Double): Double\r\n\r\n   @PublishedApi\r\n   internal fun log10(value: Double): Double\r\n   @PublishedApi\r\n   internal fun log2(value: Double): Double\r\n   @PublishedApi\r\n   internal fun log1p(value: Double): Double\r\n\r\n   @PublishedApi\r\n   internal fun clz32(value: Int): Int\r\n}\r\n\r\n/**\r\n * Returns the smaller of two values.\r\n */\r\n@Suppress(\"DEPRECATION\")\r\n@Deprecated(\"Use minOf or kotlin.math.min instead\", ReplaceWith(\"minOf(a, b)\"), level = DeprecationLevel.ERROR)\r\npublic fun Math.min(a: Long, b: Long): Long = if (a <= b) a else b\r\n\r\n/**\r\n * Returns the greater of two values.\r\n */\r\n@Suppress(\"DEPRECATION\")\r\n@Deprecated(\"Use maxOf or kotlin.math.max instead\", ReplaceWith(\"maxOf(a, b)\"), level = DeprecationLevel.ERROR)\r\npublic fun Math.max(a: Long, b: Long): Long = if (a >= b) a else b\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.js\r\n\r\n/**\r\n * An interface for indexing access to a collection of key-value pairs, where type of key is [String] and type of value is [Any?][Any].\r\n */\r\npublic external interface Json {\r\n   /**\r\n   * Calls to the function will be translated to indexing operation (square brackets) on the receiver with [propertyName] as the argument.\r\n   *\r\n   * E.g. for next code:\r\n   * ```kotlin\r\n   * fun test(j: Json, p: String) = j[\"prop\"] + j.get(p)\r\n   * ```\r\n   *\r\n   * will be generated:\r\n   * ```js\r\n   * function test(j, p) {\r\n   *   return j[\"prop\"] + j[p];\r\n   * }\r\n   * ```\r\n   */\r\n   operator fun get(propertyName: String): Any?\r\n\r\n   /**\r\n   * Calls of the function will be translated to an assignment of [value] to the receiver indexed (with square brackets/index operation) with [propertyName].\r\n   *\r\n   * E.g. for the following code:\r\n   * ```kotlin\r\n   * fun test(j: Json, p: String, newValue: Any) {\r\n   *   j[\"prop\"] = 1\r\n   *   j.set(p, newValue)\r\n   * }\r\n   * ```\r\n   *\r\n   * will be generated:\r\n   * ```js\r\n   * function test(j, p, newValue) {\r\n   *   j[\"prop\"] = 1;\r\n   *   j[p] = newValue;\r\n   * }\r\n   * ```\r\n   */\r\n   operator fun set(propertyName: String, value: Any?): Unit\r\n}\r\n\r\n/**\r\n * Returns a simple JavaScript object (as [Json]) using provided key-value pairs as names and values of its properties.\r\n */\r\npublic fun json(vararg pairs: Pair<String, Any?>): Json {\r\n   val res: dynamic = js(\"({})\")\r\n   for ((name, value) in pairs) {\r\n   res[name] = value\r\n   }\r\n   return res\r\n}\r\n\r\n/**\r\n * Adds key-value pairs from [other] to [this].\r\n * Returns the original receiver.\r\n */\r\npublic fun Json.add(other: Json): Json {\r\n   val keys: Array<String> = js(\"Object\").keys(other)\r\n   for (key in keys) {\r\n   if (other.asDynamic().hasOwnProperty(key)) {\r\n   this[key] = other[key];\r\n   }\r\n   }\r\n   return

this\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [JSON object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) to Kotlin.\r\n */\r\n@Suppress(\"NOT_DOCUMENTED\")\r\npublic external object JSON {\r\n   public fun stringify(o: Any?): String\r\n   public fun stringify(o: Any?, replacer: ((key: String, value: Any?) -> Any?)): String\r\n   public fun stringify(o: Any?, replacer: ((key: String, value: Any?) -> Any?)? = definedExternally, space: Int): String\r\n   public fun stringify(o: Any?, replacer: ((key: String, value: Any?) -> Any?)? = definedExternally, space: String): String\r\n   public fun stringify(o: Any?, replacer: Array<String>): String\r\n   public fun stringify(o: Any?, replacer: Array<String>, space: Int): String\r\n   public fun stringify(o: Any?, replacer: Array<String>, space: String): String\r\n\r\n   public fun <T> parse(text: String): T\r\n   public fun <T> parse(text: String, reviver: ((key: String, value: Any?) -> Any?)): T\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n@file:Suppress(\"DEPRECATION\", \"DEPRECATION_ERROR\")\r\npackage kotlin.math\r\n\r\n\r\nimport kotlin.internal.InlineOnly\r\nimport kotlin.js.Math as nativeMath\r\n\r\n\r\n// region ================ Double Math ==\r\n\r\n/** Computes the sine of the angle [x] given in radians.\r\n *\r\n * Special cases:\r\n *   - `sin(NaN|+Inf|-Inf)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun sin(x: Double): Double = nativeMath.sin(x)\r\n\r\n\r\n/** Computes the cosine of the angle [x] given in radians.\r\n *\r\n * Special cases:\r\n *   - `cos(NaN|+Inf|-Inf)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun cos(x: Double): Double = nativeMath.cos(x)\r\n\r\n\r\n/** Computes the tangent of the angle [x] given in radians.\r\n *\r\n * Special cases:\r\n *   - `tan(NaN|+Inf|-Inf)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun tan(x: Double): Double = nativeMath.tan(x)\r\n\r\n\r\n/**\r\n * Computes the arc sine of the value [x];\r\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\r\n *\r\n * Special cases:\r\n *   - `asin(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun asin(x: Double): Double = nativeMath.asin(x)\r\n\r\n\r\n/**\r\n * Computes the arc cosine of the value [x];\r\n * the returned value is an angle in the range from `0.0` to `PI` radians.\r\n *\r\n * Special cases:\r\n *   - `acos(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun acos(x: Double): Double = nativeMath.acos(x)\r\n\r\n\r\n/**\r\n * Computes the arc tangent of the value [x];\r\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\r\n *\r\n * Special cases:\r\n *   - `atan(NaN)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun atan(x: Double): Double = nativeMath.atan(x)\r\n\r\n\r\n/**\r\n * Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond\r\n * to the rectangular coordinates `(x, y)` by computing the arc tangent of the value [y] / [x];\r\n * the returned value is an angle in the range from `-PI` to `PI` radians.\r\n *\r\n * Special cases:\r\n *   - `atan2(0.0, 0.0)` is `0.0`\r\n *   - `atan2(0.0, x)` is `0.0` for `x > 0` and `PI` for `x < 0`\r\n *   - `atan2(-0.0, x)` is `-0.0` for 'x > 0` and `-PI` for `x < 0`\r\n *    - `atan2(y, +Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for '-Inf < y < 0`\r\n *   - `atan2(y, -Inf)` is `PI` for `0 < y < +Inf` and `-PI` for `-Inf < y < 0`\r\n *   - `atan2(y, 0.0)` is `PI/2` for `y > 0` and `-PI/2` for `y < 0`\r\n *   - `atan2(+Inf, x)` is `PI/2` for finite `x`\r\n *   - `atan2(-Inf, x)` is `-PI/2` for finite `x`\r\n *   - `atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun atan2(y: Double, x: Double): Double = nativeMath.atan2(y, x)\r\n\r\n\r\n/**\r\n * Computes the hyperbolic sine of the value [x].\r\n *\r\n * Special cases:\r\n *   - `sinh(NaN)` is `NaN`\r\n *   - `sinh(+Inf)` is `+Inf`\r\n *   - `sinh(-Inf)` is `-Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun sinh(x: Double): Double = nativeMath.sinh(x)\r\n\r\n\r\n/**\r\n * Computes the hyperbolic cosine of the value [x].\r\n *\r\n * Special cases:\r\n *   - `cosh(NaN)` is `NaN`\r\n *   - `cosh(+Inf|-Inf)` is `+Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun cosh(x: Double): Double = nativeMath.cosh(x)\r\n\r\n\r\n/**\r\n * Computes the hyperbolic tangent of the value [x].\r\n *\r\n * Special cases:\r\n *   - `tanh(NaN)` is `NaN`\r\n *   - `tanh(+Inf)` is `1.0`\r\n *   - `tanh(-Inf)` is `-1.0`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun tanh(x: Double): Double = nativeMath.tanh(x)\r\n\r\n\r\n/**\r\n * Computes the inverse hyperbolic sine of the value [x].\r\n *\r\n * The returned value is `y` such that `sinh(y) == x`.\r\n *\r\n * Special cases:\r\n *   - `asinh(NaN)` is `NaN`\r\n *   - `asinh(+Inf)` is `+Inf`\r\n *   - `asinh(-Inf)` is `-Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun

asinh(x: Double): Double = nativeMath.asinh(x)\r\n\r\n/**\r\n * Computes the inverse hyperbolic cosine of the value [x].\r\n *\r\n * The returned value is positive `y` such that `cosh(y) == x`.\r\n *\r\n * Special cases:\r\n * - `acosh(NaN)` is `NaN`\r\n * - `acosh(x)` is `NaN` when `x < 1`\r\n * - `acosh(+Inf)` is `+Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun acosh(x: Double): Double = nativeMath.acosh(x)\r\n\r\n/**\r\n * Computes the inverse hyperbolic tangent of the value [x].\r\n *\r\n * The returned value is `y` such that `tanh(y) == x`.\r\n *\r\n * Special cases:\r\n * - `tanh(NaN)` is `NaN`\r\n * - `tanh(x)` is `NaN` when `x > 1` or `x < -1`\r\n * - `tanh(1.0)` is `+Inf`\r\n * - `tanh(-1.0)` is `-Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun atanh(x: Double): Double = nativeMath.atanh(x)\r\n\r\n/**\r\n * Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow.\r\n *\r\n * Special cases:\r\n * - returns `+Inf` if any of arguments is infinite\r\n * - returns `NaN` if any of arguments is `NaN` and the other is not infinite\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun hypot(x: Double, y: Double): Double = nativeMath.hypot(x, y)\r\n\r\n/**\r\n * Computes the positive square root of the value [x].\r\n *\r\n * Special cases:\r\n * - `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun sqrt(x: Double): Double = nativeMath.sqrt(x)\r\n\r\n/**\r\n * Computes Euler's number `e` raised to the power of the value [x].\r\n *\r\n * Special cases:\r\n * - `exp(NaN)` is `NaN`\r\n * - `exp(+Inf)` is `+Inf`\r\n * - `exp(-Inf)` is `0.0`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun exp(x: Double): Double = nativeMath.exp(x)\r\n\r\n/**\r\n * Computes `exp(x) - 1`.\r\n *\r\n * This function can be implemented to produce more precise result for [x] near zero.\r\n *\r\n * Special cases:\r\n * - `expm1(NaN)` is `NaN`\r\n * - `expm1(+Inf)` is `+Inf`\r\n * - `expm1(-Inf)` is `-1.0`\r\n *\r\n * @see [exp] function.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun expm1(x: Double): Double = nativeMath.expm1(x)\r\n\r\n/**\r\n * Computes the logarithm of the value [x] to the given [base].\r\n *\r\n * Special cases:\r\n * - `log(x, b)` is `NaN` if either `x` or `b` are `NaN`\r\n * - `log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0`\r\n * - `log(+Inf, +Inf)` is `NaN`\r\n * - `log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1`\r\n * - `log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1`\r\n *\r\n * See also logarithm functions for common fixed bases: [ln], [log10] and [log2].\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual fun log(x: Double, base: Double): Double {\r\n   if (base <= 0.0 || base == 1.0) return Double.NaN\r\n   return nativeMath.log(x) / nativeMath.log(base)\r\n}\r\n\r\n/**\r\n * Computes the natural logarithm (base `E`) of the value [x].\r\n *\r\n * Special cases:\r\n * - `ln(NaN)` is `NaN`\r\n * - `ln(x)` is `NaN` when `x < 0.0`\r\n * - `ln(+Inf)` is `+Inf`\r\n * - `ln(0.0)` is `-Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun ln(x: Double): Double = nativeMath.log(x)\r\n\r\n/**\r\n * Computes the common logarithm (base 10) of the value [x].\r\n *\r\n * @see [ln] function for special cases.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun log10(x: Double): Double = nativeMath.log10(x)\r\n\r\n/**\r\n * Computes the binary logarithm (base 2) of the value [x].\r\n *\r\n * @see [ln] function for special cases.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun log2(x: Double): Double = nativeMath.log2(x)\r\n\r\n/**\r\n * Computes `ln(x + 1)`.\r\n *\r\n * This function can be implemented to produce more precise result for [x] near zero.\r\n *\r\n * Special cases:\r\n * - `ln1p(NaN)` is `NaN`\r\n * - `ln1p(x)` is `NaN` where `x < -1.0`\r\n * - `ln1p(-1.0)` is `-Inf`\r\n * - `ln1p(+Inf)` is `+Inf`\r\n *\r\n * @see [ln] function\r\n * @see [expm1] function\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun ln1p(x: Double): Double = nativeMath.log1p(x)\r\n\r\n/**\r\n * Rounds the given value [x] to an integer towards positive infinity.\r\n\r\n * @return the smallest double value that is greater than or equal to the given value [x] and is a mathematical integer.\r\n *\r\n * Special cases:\r\n * - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun ceil(x: Double): Double = nativeMath.ceil(x).unsafeCast<Double>() // TODO: Remove unsafe cast after removing public js.math\r\n\r\n/**\r\n * Rounds the given value [x] to an integer towards negative infinity.\r\n\r\n * @return the largest double value that is smaller than or equal to the given value [x] and is a mathematical integer.\r\n *\r\n * Special cases:\r\n * - `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun floor(x: Double): Double = nativeMath.floor(x).unsafeCast<Double>()\r\n\r\n/**\r\n * Rounds the given value [x] to an integer

towards zero.\r\n *\r\n * @return the value [x] having its fractional part truncated.\r\n *\r\n * Special cases:\r\n * - `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun truncate(x: Double): Double = nativeMath.trunc(x)\r\n\r\n/**\r\n * Rounds the given value [x] towards the closest integer with ties rounded towards even integer.\r\n *\r\n * Special cases:\r\n * - `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual fun round(x: Double): Double {\r\n   if (x % 0.5 != 0.0) {\r\n   return nativeMath.round(x).unsafeCast<Double>()\r\n   }\r\n   val floor = floor(x)\r\n   return if (floor % 2 == 0.0) floor else ceil(x)\r\n}\r\n\r\n/**\r\n * Returns the absolute value of the given value [x].\r\n *\r\n * Special cases:\r\n * - `abs(NaN)` is `NaN`\r\n *\r\n * @see absoluteValue extension property for [Double]\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun abs(x: Double): Double = nativeMath.abs(x)\r\n\r\n/**\r\n * Returns the sign of the given value [x]:\r\n * - `-1.0` if the value is negative,\r\n * - zero if the value is zero,\r\n * - `1.0` if the value is positive\r\n *\r\n * Special case:\r\n * - `sign(NaN)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun sign(x: Double): Double = nativeMath.sign(x)\r\n\r\n/**\r\n * Returns the smaller of two values.\r\n *\r\n * If either value is `NaN`, then the result is `NaN`.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun min(a: Double, b: Double): Double = nativeMath.min(a, b)\r\n\r\n/**\r\n * Returns the greater of two values.\r\n *\r\n * If either value is `NaN`, then the result is `NaN`.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun max(a: Double, b: Double): Double = nativeMath.max(a, b)\r\n\r\n// extensions\r\n\r\n/**\r\n * Raises this value to the power [x].\r\n *\r\n * Special cases:\r\n * - `b.pow(0.0)` is `1.0`\r\n * - `b.pow(1.0) == b`\r\n * - `b.pow(NaN)` is `NaN`\r\n * - `NaN.pow(x)` is `NaN` for `x != 0.0`\r\n * - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\r\n * - `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun Double.pow(x: Double): Double = nativeMath.pow(this, x)\r\n\r\n/**\r\n * Raises this value to the integer power [n].\r\n *\r\n * See the other overload of [pow] for details.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun Double.pow(n: Int): Double = nativeMath.pow(this, n.toDouble())\r\n\r\n/**\r\n * Returns the absolute value of this value.\r\n *\r\n * Special cases:\r\n * - `NaN.absoluteValue` is `NaN`\r\n *\r\n * @see abs function\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline val Double.absoluteValue: Double get() = nativeMath.abs(this)\r\n\r\n/**\r\n * Returns the sign of this value:\r\n * - `-1.0` if the value is negative,\r\n * - zero if the value is zero,\r\n * - `1.0` if the value is positive\r\n *\r\n * Special case:\r\n * - `NaN.sign` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline val Double.sign: Double get() = nativeMath.sign(this)\r\n\r\n/**\r\n * Returns this value with the sign bit same as of the [sign] value.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun Double.withSign(sign: Int): Double = this.withSign(sign.toDouble())\r\n\r\n/**\r\n * Returns the ulp (unit in the last place) of this value.\r\n *\r\n * An ulp is a positive distance between this value and the next nearest [Double] value larger in magnitude.\r\n *\r\n * Special Cases:\r\n * - `NaN.ulp` is `NaN`\r\n * - `x.ulp` is `+Inf` when `x` is `+Inf` or `-Inf`\r\n * - `0.0.ulp` is `Double.MIN_VALUE`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual val Double.ulp: Double get() = when {\r\n   this < 0 -> (-this).ulp\r\n   this.isNaN() || this == Double.POSITIVE_INFINITY -> this\r\n   this == Double.MAX_VALUE -> this - this.nextDown()\r\n   else -> this.nextUp() - this\r\n}\r\n\r\n/**\r\n * Returns the [Double] value nearest to this value in direction of positive infinity.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual fun Double.nextUp(): Double = when {\r\n   this.isNaN() || this == Double.POSITIVE_INFINITY -> this\r\n   this == 0.0 -> Double.MIN_VALUE\r\n   else -> Double.fromBits(this.toRawBits() + if (this > 0) 1 else -1)\r\n}\r\n\r\n/**\r\n * Returns the [Double] value nearest to this value in direction of negative infinity.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual fun Double.nextDown(): Double = when {\r\n   this.isNaN() || this == Double.NEGATIVE_INFINITY -> this\r\n   this == 0.0 -> -Double.MIN_VALUE\r\n   else -> Double.fromBits(this.toRawBits() + if (this > 0) -1 else 1)\r\n}\r\n\r\n/**\r\n * Returns the [Double] value nearest to this value in direction from this value towards the value [to].\r\n *\r\n * Special cases:\r\n * - `x.nextTowards(y)` is `NaN` if either `x` or `y` are `NaN`\r\n * - `x.nextTowards(x) == x`\r\n *\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual fun Double.nextTowards(to: Double): Double = when {\r\n

this.isNaN() || to.isNaN() -> Double.NaN\r\n   to == this -> to\r\n   to > this -> this.nextUp()\r\n   else /* to < this */ -> this.nextDown()\r\n}\r\n\r\n\r\n/**\r\n * Rounds this [Double] value to the nearest integer and converts the result to [Int].\r\n * Ties are rounded towards positive infinity.\r\n *\r\n * Special cases:\r\n *   - `x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`\r\n *   - `x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`\r\n *\r\n * @throws IllegalArgumentException when this value is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual fun Double.roundToInt(): Int = when {\r\n   isNaN() -> throw IllegalArgumentException(\"Cannot round NaN value.\")\r\n   this > Int.MAX_VALUE -> Int.MAX_VALUE\r\n   this < Int.MIN_VALUE -> Int.MIN_VALUE\r\n   else -> nativeMath.round(this).unsafeCast<Double>().toInt()\r\n}\r\n\r\n/**\r\n * Rounds this [Double] value to the nearest integer and converts the result to [Long].\r\n * Ties are rounded towards positive infinity.\r\n *\r\n * Special cases:\r\n *   - `x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`\r\n *   - `x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE`\r\n *\r\n * @throws IllegalArgumentException when this value is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual fun Double.roundToLong(): Long = when {\r\n   isNaN() -> throw IllegalArgumentException(\"Cannot round NaN value.\")\r\n   this > Long.MAX_VALUE -> Long.MAX_VALUE\r\n   this < Long.MIN_VALUE -> Long.MIN_VALUE\r\n   else -> nativeMath.round(this).unsafeCast<Double>().toLong()\r\n}\r\n\r\n\r\n// endregion\r\n\r\n\r\n\r\n\r\n// region ================ Float Math ==\r\n\r\n\r\n/** Computes the sine of the angle [x] given in radians.\r\n *\r\n * Special cases:\r\n *   - `sin(NaN|+Inf|-Inf)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun sin(x: Float): Float = nativeMath.sin(x.toDouble()).toFloat()\r\n\r\n\r\n/** Computes the cosine of the angle [x] given in radians.\r\n *\r\n * Special cases:\r\n *   - `cos(NaN|+Inf|-Inf)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun cos(x: Float): Float = nativeMath.cos(x.toDouble()).toFloat()\r\n\r\n\r\n/** Computes the tangent of the angle [x] given in radians.\r\n *\r\n * Special cases:\r\n *   - `tan(NaN|+Inf|-Inf)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun tan(x: Float): Float = nativeMath.tan(x.toDouble()).toFloat()\r\n\r\n\r\n/**\r\n * Computes the arc sine of the value [x];\r\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\r\n *\r\n * Special cases:\r\n *   - `asin(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun asin(x: Float): Float = nativeMath.asin(x.toDouble()).toFloat()\r\n\r\n\r\n/**\r\n * Computes the arc cosine of the value [x];\r\n * the returned value is an angle in the range from `0.0` to `PI` radians.\r\n *\r\n * Special cases:\r\n *   - `acos(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun acos(x: Float): Float = nativeMath.acos(x.toDouble()).toFloat()\r\n\r\n\r\n/**\r\n * Computes the arc tangent of the value [x];\r\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\r\n *\r\n * Special cases:\r\n *   - `atan(NaN)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun atan(x: Float): Float = nativeMath.atan(x.toDouble()).toFloat()\r\n\r\n\r\n/**\r\n * Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond\r\n * to the rectangular coordinates `(x, y)` by computing the arc tangent of the value [y] / [x];\r\n * the returned value is an angle in the range from `-PI` to `PI` radians.\r\n *\r\n * Special cases:\r\n *   - `atan2(0.0, 0.0)` is `0.0`\r\n *   - `atan2(0.0, x)` is `0.0` for `x > 0` and `PI` for `x < 0`\r\n *   - `atan2(-0.0, x)` is `-0.0` for 'x > 0` and `-PI` for `x < 0`\r\n *   - `atan2(y, +Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for '-Inf < y < 0`\r\n *   - `atan2(y, -Inf)` is `PI` for `0 < y < +Inf` and `-PI` for `-Inf < y < 0`\r\n *   - `atan2(y, 0.0)` is `PI/2` for `y > 0` and `-PI/2` for `y < 0`\r\n *   - `atan2(+Inf, x)` is `PI/2` for finite `x`y\r\n *   - `atan2(-Inf, x)` is `-PI/2` for finite `x`\r\n *   - `atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun atan2(y: Float, x: Float): Float = nativeMath.atan2(y.toDouble(), x.toDouble()).toFloat()\r\n\r\n\r\n/**\r\n * Computes the hyperbolic sine of the value [x].\r\n *\r\n * Special cases:\r\n *   - `sinh(NaN)` is `NaN`\r\n *   - `sinh(+Inf)` is `+Inf`\r\n *   - `sinh(-Inf)` is `-Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun sinh(x: Float): Float = nativeMath.sinh(x.toDouble()).toFloat()\r\n\r\n\r\n/**\r\n * Computes the hyperbolic cosine of the value [x].\r\n *\r\n * Special cases:\r\n *   - `cosh(NaN)` is `NaN`\r\n *   - `cosh(+Inf|-Inf)` is `+Inf`\r\n

*/\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun cosh(x: Float): Float = nativeMath.cosh(x.toDouble()).toFloat()\r\n\r\n/**\r\n * Computes the hyperbolic tangent of the value [x].\r\n *\r\n * Special cases:\r\n *   - `tanh(NaN)` is `NaN`\r\n *   - `tanh(+Inf)` is `1.0`\r\n *   - `tanh(-Inf)` is `-1.0`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun tanh(x: Float): Float = nativeMath.tanh(x.toDouble()).toFloat()\r\n\r\n/**\r\n * Computes the inverse hyperbolic sine of the value [x].\r\n *\r\n * The returned value is `y` such that `sinh(y) == x`.\r\n *\r\n * Special cases:\r\n *   - `asinh(NaN)` is `NaN`\r\n *   - `asinh(+Inf)` is `+Inf`\r\n *   - `asinh(-Inf)` is `-Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun asinh(x: Float): Float = nativeMath.asinh(x.toDouble()).toFloat()\r\n\r\n/**\r\n * Computes the inverse hyperbolic cosine of the value [x].\r\n *\r\n * The returned value is positive `y` such that `cosh(y) == x`.\r\n *\r\n * Special cases:\r\n *   - `acosh(NaN)` is `NaN`\r\n *   - `acosh(x)` is `NaN` when `x < 1`\r\n *   - `acosh(+Inf)` is `+Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun acosh(x: Float): Float = nativeMath.acosh(x.toDouble()).toFloat()\r\n\r\n/**\r\n * Computes the inverse hyperbolic tangent of the value [x].\r\n *\r\n * The returned value is `y` such that `tanh(y) == x`.\r\n *\r\n * Special cases:\r\n *   - `tanh(NaN)` is `NaN`\r\n *   - `tanh(x)` is `NaN` when `x > 1` or `x < -1`\r\n *   - `tanh(1.0)` is `+Inf`\r\n *   - `tanh(-1.0)` is `-Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun atanh(x: Float): Float = nativeMath.atanh(x.toDouble()).toFloat()\r\n\r\n/**\r\n * Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow.\r\n *\r\n * Special cases:\r\n *   - returns `+Inf` if any of arguments is infinite\r\n *   - returns `NaN` if any of arguments is `NaN` and the other is not infinite\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun hypot(x: Float, y: Float): Float = nativeMath.hypot(x.toDouble(), y.toDouble()).toFloat()\r\n\r\n/**\r\n * Computes the positive square root of the value [x].\r\n *\r\n * Special cases:\r\n *   - `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun sqrt(x: Float): Float = nativeMath.sqrt(x.toDouble()).toFloat()\r\n\r\n/**\r\n * Computes Euler's number `e` raised to the power of the value [x].\r\n *\r\n * Special cases:\r\n *   - `exp(NaN)` is `NaN`\r\n *   - `exp(+Inf)` is `+Inf`\r\n *   - `exp(-Inf)` is `0.0`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun exp(x: Float): Float = nativeMath.exp(x.toDouble()).toFloat()\r\n\r\n/**\r\n * Computes `exp(x) - 1`.\r\n *\r\n * This function can be implemented to produce more precise result for [x] near zero.\r\n *\r\n * Special cases:\r\n *   - `expm1(NaN)` is `NaN`\r\n *   - `expm1(+Inf)` is `+Inf`\r\n *   - `expm1(-Inf)` is `-1.0`\r\n *\r\n * @see [exp] function.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun expm1(x: Float): Float = nativeMath.expm1(x.toDouble()).toFloat()\r\n\r\n/**\r\n * Computes the logarithm of the value [x] to the given [base].\r\n *\r\n * Special cases:\r\n *   - `log(x, b)` is `NaN` if either `x` or `b` are `NaN`\r\n *   - `log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0`\r\n *   - `log(+Inf, +Inf)` is `NaN`\r\n *   - `log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1`\r\n *   - `log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1`\r\n *\r\n * See also logarithm functions for common fixed bases: [ln], [log10] and [log2].\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun log(x: Float, base: Float): Float = log(x.toDouble(), base.toDouble()).toFloat()\r\n\r\n/**\r\n * Computes the natural logarithm (base `E`) of the value [x].\r\n *\r\n * Special cases:\r\n *   - `ln(NaN)` is `NaN`\r\n *   - `ln(x)` is `NaN` when `x < 0.0`\r\n *   - `ln(+Inf)` is `+Inf`\r\n *   - `ln(0.0)` is `-Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun ln(x: Float): Float = nativeMath.log(x.toDouble()).toFloat()\r\n\r\n/**\r\n * Computes the common logarithm (base 10) of the value [x].\r\n *\r\n * @see [ln] function for special cases.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun log10(x: Float): Float = nativeMath.log10(x.toDouble()).toFloat()\r\n\r\n/**\r\n * Computes the binary logarithm (base 2) of the value [x].\r\n *\r\n * @see [ln] function for special cases.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun log2(x: Float): Float = nativeMath.log2(x.toDouble()).toFloat()\r\n\r\n/**\r\n * Computes `ln(a + 1)`.\r\n *\r\n * This function can be implemented to produce more precise result for [x] near zero.\r\n *\r\n * Special cases:\r\n *   - `ln1p(NaN)` is `NaN`\r\n *   - `ln1p(x)` is `NaN` where `x < -1.0`\r\n *   - `ln1p(-1.0)` is `-Inf`\r\n *   - `ln1p(+Inf)` is `+Inf`\r\n *\r\n * @see [ln] function\r\n * @see [expm1] function\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun ln1p(x: Float): Float =

nativeMath.log1p(x.toDouble()).toFloat()\r\n\r\n/**\r\n * Rounds the given value [x] to an integer towards positive infinity.\r\n\r\n * @return the smallest Float value that is greater than or equal to the given value [x] and is a mathematical integer.\r\n *\r\n * Special cases:\r\n * - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun ceil(x: Float): Float = nativeMath.ceil(x.toDouble()).toFloat()\r\n\r\n/**\r\n * Rounds the given value [x] to an integer towards negative infinity.\r\n\r\n * @return the largest Float value that is smaller than or equal to the given value [x] and is a mathematical integer.\r\n *\r\n * Special cases:\r\n * - `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun floor(x: Float): Float = nativeMath.floor(x.toDouble()).toFloat()\r\n\r\n/**\r\n * Rounds the given value [x] to an integer towards zero.\r\n *\r\n * @return the value [x] having its fractional part truncated.\r\n *\r\n * Special cases:\r\n * - `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun truncate(x: Float): Float = truncate(x.toDouble()).toFloat()\r\n\r\n/**\r\n * Rounds the given value [x] towards the closest integer with ties rounded towards even integer.\r\n *\r\n * Special cases:\r\n * - `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun round(x: Float): Float = round(x.toDouble()).toFloat()\r\n\r\n\r\n/**\r\n * Returns the absolute value of the given value [x].\r\n *\r\n * Special cases:\r\n * - `abs(NaN)` is `NaN`\r\n *\r\n * @see absoluteValue extension property for [Float]\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun abs(x: Float): Float = nativeMath.abs(x.toDouble()).toFloat()\r\n\r\n/**\r\n * Returns the sign of the given value [x]:\r\n * - `-1.0` if the value is negative,\r\n * - zero if the value is zero,\r\n * - `1.0` if the value is positive\r\n *\r\n * Special case:\r\n * - `sign(NaN)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun sign(x: Float): Float = nativeMath.sign(x.toDouble()).toFloat()\r\n\r\n\r\n\r\n/**\r\n * Returns the smaller of two values.\r\n *\r\n * If either value is `NaN`, then the result is `NaN`.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun min(a: Float, b: Float): Float = nativeMath.min(a, b)\r\n\r\n/**\r\n * Returns the greater of two values.\r\n *\r\n * If either value is `NaN`, then the result is `NaN`.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun max(a: Float, b: Float): Float = nativeMath.max(a, b)\r\n\r\n// extensions\r\n\r\n\r\n/**\r\n * Raises this value to the power [x].\r\n *\r\n * Special cases:\r\n * - `b.pow(0.0)` is `1.0`\r\n * - `b.pow(1.0) == b`\r\n * - `b.pow(NaN)` is `NaN`\r\n * - `NaN.pow(x)` is `NaN` for `x != 0.0`\r\n * - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\r\n * - `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun Float.pow(x: Float): Float = nativeMath.pow(this.toDouble(), x.toDouble()).toFloat()\r\n\r\n/**\r\n * Raises this value to the integer power [n].\r\n *\r\n * See the other overload of [pow] for details.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun Float.pow(n: Int): Float = nativeMath.pow(this.toDouble(), n.toDouble()).toFloat()\r\n\r\n/**\r\n * Returns the absolute value of this value.\r\n *\r\n * Special cases:\r\n * - `NaN.absoluteValue` is `NaN`\r\n *\r\n * @see abs function\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline val Float.absoluteValue: Float get() = nativeMath.abs(this.toDouble()).toFloat()\r\n\r\n/**\r\n * Returns the sign of this value:\r\n * - `-1.0` if the value is negative,\r\n * - zero if the value is zero,\r\n * - `1.0` if the value is positive\r\n *\r\n * Special case:\r\n * - `NaN.sign` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline val Float.sign: Float get() = nativeMath.sign(this.toDouble()).toFloat()\r\n\r\n/**\r\n * Returns this value with the sign bit same as of the [sign] value.\r\n *\r\n * If [sign] is `NaN` the sign of the result is undefined.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun Float.withSign(sign: Float): Float = this.toDouble().withSign(sign.toDouble()).toFloat()\r\n\r\n/**\r\n * Returns this value with the sign bit same as of the [sign] value.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun Float.withSign(sign: Int): Float = this.toDouble().withSign(sign.toDouble()).toFloat()\r\n\r\n\r\n/**\r\n * Rounds this [Float] value to the nearest integer and converts the result to [Int].\r\n * Ties are rounded towards positive infinity.\r\n *\r\n * Special cases:\r\n * - `x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`\r\n * - `x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`\r\n *\r\n * @throws IllegalArgumentException when this value is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun Float.roundToInt(): Int =

toDouble().roundToInt()\r\n\r\n/**\r\n * Rounds this [Float] value to the nearest integer and converts the result to [Long].\r\n * Ties are rounded towards positive infinity.\r\n *\r\n * Special cases:\r\n * - `x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`\r\n * - `x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE`\r\n *\r\n * @throws IllegalArgumentException when this value is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun Float.roundToLong(): Long = toDouble().roundToLong()\r\n\r\n\r\n// endregion\r\n\r\n// region ================ Integer Math ==\r\n\r\n\r\n\r\n/**\r\n * Returns the absolute value of the given value [n].\r\n *\r\n * Special cases:\r\n * - `abs(Int.MIN_VALUE)` is `Int.MIN_VALUE` due to an overflow\r\n *\r\n * @see absoluteValue extension property for [Int]\r\n */\r\n// TODO: remove manual 'or' when KT-19290 is fixed\r\n@SinceKotlin(\"1.2\")\r\npublic actual fun abs(n: Int): Int = if (n < 0) (-n or 0) else n\r\n\r\n/**\r\n * Returns the smaller of two values.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun min(a: Int, b: Int): Int = nativeMath.min(a, b)\r\n\r\n/**\r\n * Returns the greater of two values.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun max(a: Int, b: Int): Int = nativeMath.max(a, b)\r\n\r\n/**\r\n * Returns the absolute value of this value.\r\n *\r\n * Special cases:\r\n * - `Int.MIN_VALUE.absoluteValue` is `Int.MIN_VALUE` due to an overflow\r\n *\r\n * @see abs function\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline val Int.absoluteValue: Int get() = abs(this)\r\n\r\n/**\r\n * Returns the sign of this value:\r\n * - `-1` if the value is negative,\r\n * - `0` if the value is zero,\r\n * - `1` if the value is positive\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual val Int.sign: Int get() = when {\r\n   this < 0 -> -1\r\n   this > 0 -> 1\r\n   else -> 0\r\n}\r\n\r\n\r\n\r\n/**\r\n * Returns the absolute value of the given value [n].\r\n *\r\n * Special cases:\r\n * - `abs(Long.MIN_VALUE)` is `Long.MIN_VALUE` due to an overflow\r\n *\r\n * @see absoluteValue extension property for [Long]\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual fun abs(n: Long): Long = if (n < 0) -n else n\r\n\r\n/**\r\n * Returns the smaller of two values.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@Suppress(\"NOTHING_TO_INLINE\")\r\npublic actual inline fun min(a: Long, b: Long): Long = if (a <= b) a else b\r\n\r\n/**\r\n * Returns the greater of two values.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@Suppress(\"NOTHING_TO_INLINE\")\r\npublic actual inline fun max(a: Long, b: Long): Long = if (a >= b) a else b\r\n\r\n/**\r\n * Returns the absolute value of this value.\r\n *\r\n * Special cases:\r\n * - `Long.MIN_VALUE.absoluteValue` is `Long.MIN_VALUE` due to an overflow\r\n *\r\n * @see abs function\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline val Long.absoluteValue: Long get() = abs(this)\r\n\r\n/**\r\n * Returns the sign of this value:\r\n * - `-1` if the value is negative,\r\n * - `0` if the value is zero,\r\n * - `1` if the value is positive\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual val Long.sign: Int get() = when {\r\n   this < 0 -> -1\r\n   this > 0 -> 1\r\n   else -> 0\r\n}\r\n\r\n\r\n\r\n// endregion\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin\r\n\r\n/**\r\n * Returns `true` if the specified number is a\r\n * Not-a-Number (NaN) value, `false` otherwise.\r\n */\r\npublic actual fun Double.isNaN(): Boolean = this != this\r\n\r\n/**\r\n * Returns `true` if the specified number is a\r\n * Not-a-Number (NaN) value, `false` otherwise.\r\n */\r\npublic actual fun Float.isNaN(): Boolean = this != this\r\n\r\n/**\r\n * Returns `true` if this value is infinitely large in magnitude.\r\n */\r\npublic actual fun Double.isInfinite(): Boolean = this == Double.POSITIVE_INFINITY || this == Double.NEGATIVE_INFINITY\r\n\r\n/**\r\n * Returns `true` if this value is infinitely large in magnitude.\r\n */\r\npublic actual fun Float.isInfinite(): Boolean = this == Float.POSITIVE_INFINITY || this == Float.NEGATIVE_INFINITY\r\n\r\n/**\r\n * Returns `true` if the argument is a finite floating-point value; returns `false` otherwise (for `NaN` and infinity arguments).\r\n */\r\npublic actual fun Double.isFinite(): Boolean = !isInfinite() && !isNaN()\r\n\r\n/**\r\n * Returns `true` if the argument is a finite floating-point value; returns `false` otherwise (for `NaN` and infinity arguments).\r\n */\r\npublic actual fun Float.isFinite(): Boolean = !isInfinite() && !isNaN()\r\n\r\n\r\n\r\n/**\r\n * Counts the number of set bits in the binary representation of this [Int] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic actual fun Int.countOneBits(): Int {\r\n   // Hacker's Delight 5-1 algorithm\r\n   var v = this\r\n   v = (v and 0x55555555) + (v.ushr(1) and 0x55555555)\r\n   v = (v and 0x33333333) + (v.ushr(2) and 0x33333333)\r\n   v = (v and 0x0F0F0F0F) +

(v.ushr(4) and 0x0F0F0F0F)\r\n   v = (v and 0x00FF00FF) + (v.ushr(8) and 0x00FF00FF)\r\n   v = (v and 0x0000FFFF) + (v.ushr(16))\r\n   return v\r\n}\r\n\r\n/**\r\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Int] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@Suppress(\"DEPRECATION\")\r\n@kotlin.internal.InlineOnly\r\npublic actual inline fun Int.countLeadingZeroBits(): Int = kotlin.js.Math.clz32(this)\r\n\r\n/**\r\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Int] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic actual fun Int.countTrailingZeroBits(): Int =\r\n   // Hacker's Delight 5-4 algorithm for expressing countTrailingZeroBits with countLeadingZeroBits\r\n   Int.SIZE_BITS - (this or -this).inv().countLeadingZeroBits()\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the most significant set bit of this [Int] number,\r\n * or zero, if this number is zero.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic actual fun Int.takeHighestOneBit(): Int =\r\n   if (this == 0) 0 else 1.shl(Int.SIZE_BITS - 1 - countLeadingZeroBits())\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the least significant set bit of this [Int] number,\r\n * or zero, if this number is zero.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic actual fun Int.takeLowestOneBit(): Int =\r\n   // Hacker's Delight 2-1 algorithm for isolating rightmost 1-bit\r\n   this and -this\r\n\r\n/**\r\n * Rotates the binary representation of this [Int] number left by the specified [bitCount] number of bits.\r\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\r\n *\r\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\r\n * `number.rotateLeft(-n) == number.rotateRight(n)`\r\n *\r\n * Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally\r\n * `number.rotateLeft(n) == number.rotateLeft(n % 32)`\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic actual fun Int.rotateLeft(bitCount: Int): Int =\r\n   shl(bitCount) or ushr(Int.SIZE_BITS - bitCount)\r\n\r\n\r\n/**\r\n * Rotates the binary representation of this [Int] number right by the specified [bitCount] number of bits.\r\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\r\n *\r\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\r\n * `number.rotateRight(-n) == number.rotateLeft(n)`\r\n *\r\n * Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally\r\n * `number.rotateRight(n) == number.rotateRight(n % 32)`\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic actual fun Int.rotateRight(bitCount: Int): Int =\r\n   shl(Int.SIZE_BITS - bitCount) or ushr(bitCount)\r\n\r\n\r\n/**\r\n * Counts the number of set bits in the binary representation of this [Long] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic actual fun Long.countOneBits(): Int =\r\n   high.countOneBits() + low.countOneBits()\r\n\r\n/**\r\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Long] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic actual fun Long.countLeadingZeroBits(): Int =\r\n   when (val high = this.high) {\r\n   0 -> Int.SIZE_BITS + low.countLeadingZeroBits()\r\n   else -> high.countLeadingZeroBits()\r\n   }\r\n\r\n/**\r\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Long] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic actual fun Long.countTrailingZeroBits(): Int =\r\n   when (val low = this.low) {\r\n   0 -> Int.SIZE_BITS + high.countTrailingZeroBits()\r\n   else -> low.countTrailingZeroBits()\r\n   }\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the most significant set bit of this [Long] number,\r\n * or zero, if this number is zero.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic actual fun Long.takeHighestOneBit(): Long =\r\n   when (val high = this.high) {\r\n   0 -> Long(low.takeHighestOneBit(), 0)\r\n   else -> Long(0, high.takeHighestOneBit())\r\n   }\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the least significant set bit of this [Long] number,\r\n * or zero, if this number is zero.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic actual fun Long.takeLowestOneBit(): Long =\r\n   when (val low = this.low) {\r\n   0 -> Long(0, high.takeLowestOneBit())\r\n   else -> Long(low.takeLowestOneBit(), 0)\r\n   }\r\n\r\n/**\r\n * Rotates the binary representation of this [Long] number

left by the specified [bitCount] number of bits.\r\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\r\n *\r\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\r\n * `number.rotateLeft(-n) == number.rotateRight(n)`\r\n *\r\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally\r\n * `number.rotateLeft(n) == number.rotateLeft(n % 64)`\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic actual fun Long.rotateLeft(bitCount: Int): Long {\r\n if ((bitCount and 31) != 0) {\r\n val low = this.low\r\n val high = this.high\r\n val newLow = low.shl(bitCount) or high.ushr(-bitCount)\r\n val newHigh = high.shl(bitCount) or low.ushr(-bitCount)\r\n return if ((bitCount and 32) == 0) Long(newLow, newHigh) else Long(newHigh, newLow)\r\n } else {\r\n return if ((bitCount and 32) == 0) this else Long(high, low)\r\n }\r\n}\r\n\r\n\r\n/**\r\n * Rotates the binary representation of this [Long] number right by the specified [bitCount] number of bits.\r\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\r\n *\r\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\r\n * `number.rotateRight(-n) == number.rotateLeft(n)`\r\n *\r\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally\r\n * `number.rotateRight(n) == number.rotateRight(n % 64)`\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@kotlin.internal.InlineOnly\r\npublic actual inline fun Long.rotateRight(bitCount: Int): Long = rotateLeft(-bitCount)\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.js\r\n\r\nimport kotlin.internal.LowPriorityInOverloadResolution\r\n\r\n/**\r\n * Exposes the JavaScript [Promise object](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/Promise) to Kotlin.\r\n */\r\n@Suppress(\"NOT_DOCUMENTED\")\r\npublic open external class Promise<out T>(executor: (resolve: (T) -> Unit, reject: (Throwable) -> Unit) -> Unit) {\r\n @LowPriorityInOverloadResolution\r\n public open fun <S> then(onFulfilled: ((T) -> S)?): Promise<S>\r\n\r\n @LowPriorityInOverloadResolution\r\n public open fun <S> then(onFulfilled: ((T) -> S)?, onRejected: ((Throwable) -> S)?): Promise<S>\r\n\r\n public open fun <S> catch(onRejected: (Throwable) -> S): Promise<S>\r\n\r\n companion object {\r\n public fun <S> all(promise: Array<out Promise<S>>): Promise<Array<out S>>\r\n\r\n public fun <S> race(promise: Array<out Promise<S>>): Promise<S>\r\n\r\n public fun reject(e: Throwable): Promise<Nothing>\r\n\r\n public fun <S> resolve(e: S): Promise<S>\r\n public fun <S> resolve(e: Promise<S>): Promise<S>\r\n }\r\n}\r\n\r\n// It's workaround for KT-19672 since we can fix it properly until KT-11265 isn't fixed.\r\ninline fun <T, S> Promise<Promise<T>>.then(\r\n noinline onFulfilled: ((T) -> S)?\r\n): Promise<S> {\r\n return this.unsafeCast<Promise<T>>().then(onFulfilled)\r\n}\r\n\r\ninline fun <T, S> Promise<Promise<T>>.then(\r\n noinline onFulfilled: ((T) -> S)?,\r\n noinline onRejected: ((Throwable) -> S)?\r\n): Promise<S> {\r\n return this.unsafeCast<Promise<T>>().then(onFulfilled, onRejected)\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.random\r\n\r\nimport kotlin.math.pow\r\n\r\ninternal actual fun defaultPlatformRandom(): Random =\r\n Random(js(\"(Math.random() * Math.pow(2, 32)) | 0\").unsafeCast<Int>())\r\n\r\n\r\nprivate val INV_2_26: Double = 2.0.pow(-26)\r\nprivate val INV_2_53: Double = 2.0.pow(-53)\r\ninternal actual fun doubleFromParts(hi26: Int, low27: Int): Double =\r\n hi26 * INV_2_26 + low27 * INV_2_53","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.js\r\n\r\nimport getKClass\r\nimport kotlin.reflect.KClass\r\nimport kotlin.reflect.js.internal.KClassImpl\r\n\r\n/**\r\n * Represents the constructor of a class. Instances of `JsClass` can be passed to JavaScript APIs that expect a constructor reference.\r\n */\r\nexternal interface JsClass<T : Any> {\r\n /**\r\n * Returns the unqualified name of the class represented by this instance.\r\n */\r\n val name: String\r\n}\r\n\r\n@Deprecated(\"Use class literal and extension property `js` instead.\", replaceWith = ReplaceWith(\"T::class.js\"), level = DeprecationLevel.ERROR)\r\nexternal fun <T : Any> jsClass(): JsClass<T>\r\n\r\n@Deprecated(\"Use class literal and extension property `js` instead.\", replaceWith =

ReplaceWith(\"this::class.js\"), level = DeprecationLevel.ERROR)\r\nval <T : Any> T.jsClass: JsClass<T>\r\n get() = when (jsTypeOf(this)) {\r\n \"string\" -> js(\"String\")\r\n \"number\" -> js(\"Number\")\r\n \"boolean\" -> js(\"Boolean\")\r\n else -> js(\"Object\").getPrototypeOf(this).constructor\r\n }\r\n\r\n/**\r\n * Obtains a constructor reference for the given `KClass`.\r\n */\r\nval <T : Any> KClass<T>.js: JsClass<T>\r\n get() = (this as KClassImpl<T>).jClass\r\n\r\n/**\r\n * Obtains a `KClass` instance for the given constructor reference.\r\n */\r\nval <T : Any> JsClass<T>.kotlin: KClass<T>\r\n get() = getKClass(this)\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.reflect.js.internal\r\n\r\nimport kotlin.reflect.*\r\n\r\ninternal abstract class KClassImpl<T : Any>(\r\n internal open val jClass: JsClass<T>\r\n) : KClass<T> {\r\n override val annotations: List<Annotation>\r\n get() = TODO()\r\n override val constructors: Collection<KFunction<T>>\r\n get() = TODO()\r\n override val isAbstract: Boolean\r\n get() = TODO()\r\n override val isCompanion: Boolean\r\n get() = TODO()\r\n override val isData: Boolean\r\n get() = TODO()\r\n override val isFinal: Boolean\r\n get() = TODO()\r\n override val isInner: Boolean\r\n get() = TODO()\r\n override val isOpen: Boolean\r\n get() = TODO()\r\n override val isSealed: Boolean\r\n get() = TODO()\r\n override val members: Collection<KCallable<*>>\r\n get() = TODO()\r\n override val nestedClasses: Collection<KClass<*>>\r\n get() = TODO()\r\n override val objectInstance: T?\r\n get() = TODO()\r\n override val qualifiedName: String?\r\n get() = TODO()\r\n override val supertypes: List<KType>\r\n get() = TODO()\r\n override val typeParameters: List<KTypeParameter>\r\n get() = TODO()\r\n override val sealedSubclasses: List<KClass<out T>>\r\n get() = TODO()\r\n override val visibility: KVisibility?\r\n get() = TODO()\r\n\r\n override fun equals(other: Any?): Boolean {\r\n return other is KClassImpl<*> && jClass == other.jClass\r\n }\r\n\r\n // TODO: use FQN\r\n override fun hashCode(): Int = simpleName?.hashCode() ?: 0\r\n\r\n override fun toString(): String {\r\n // TODO: use FQN\r\n return \"class $simpleName\"\r\n }\r\n}\r\n\r\ninternal class SimpleKClassImpl<T : Any>(jClass: JsClass<T>) : KClassImpl<T>(jClass) {\r\n override val simpleName: String? = jClass.asDynamic().`$metadata$`?.simpleName.unsafeCast<String?>()\r\n\r\n override fun isInstance(value: Any?): Boolean {\r\n return jsIsType(value, jClass)\r\n }\r\n}\r\n\r\ninternal class PrimitiveKClassImpl<T : Any>(\r\n jClass: JsClass<T>,\r\n private val givenSimpleName: String,\r\n private val isInstanceFunction: (Any?) -> Boolean\r\n) : KClassImpl<T>(jClass) {\r\n override fun equals(other: Any?): Boolean {\r\n if (other !is PrimitiveKClassImpl<*>) return false\r\n return super.equals(other) && givenSimpleName == other.givenSimpleName\r\n }\r\n\r\n override val simpleName: String? get() = givenSimpleName\r\n\r\n override fun isInstance(value: Any?): Boolean {\r\n return isInstanceFunction(value)\r\n }\r\n}\r\n\r\ninternal object NothingKClassImpl : KClassImpl<Nothing>(js(\"Object\")) {\r\n override val simpleName: String = \"Nothing\"\r\n\r\n override fun isInstance(value: Any?): Boolean = false\r\n\r\n override val jClass: JsClass<Nothing>\r\n get() = throw UnsupportedOperationException(\"There's no native JS class for Nothing type\")\r\n\r\n override fun equals(other: Any?): Boolean = other === this\r\n\r\n override fun hashCode(): Int = 0\r\n}","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.reflect.js.internal\r\n\r\nimport kotlin.js.JsClass\r\n\r\n@JsName(\"PrimitiveClasses\")\r\ninternal object PrimitiveClasses {\r\n @JsName(\"anyClass\")\r\n val anyClass = PrimitiveKClassImpl(js(\"Object\").unsafeCast<JsClass<Any>>(), \"Any\", { it is Any })\r\n\r\n @JsName(\"numberClass\")\r\n val numberClass = PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Number>>(), \"Number\", { it is Number })\r\n\r\n @JsName(\"nothingClass\")\r\n val nothingClass = NothingKClassImpl\r\n\r\n @JsName(\"booleanClass\")\r\n val booleanClass = PrimitiveKClassImpl(js(\"Boolean\").unsafeCast<JsClass<Boolean>>(), \"Boolean\", { it is Boolean })\r\n\r\n @JsName(\"byteClass\")\r\n val byteClass = PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Byte>>(), \"Byte\", { it is Byte })\r\n\r\n @JsName(\"shortClass\")\r\n val shortClass =

PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Short>>(), \"Short\", { it is Short })\r\n\r\n @JsName(\"intClass\")\r\n val intClass = PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Int>>(), \"Int\", { it is Int })\r\n\r\n @JsName(\"floatClass\")\r\n val floatClass = PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Float>>(), \"Float\", { it is Float })\r\n\r\n @JsName(\"doubleClass\")\r\n val doubleClass = PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Double>>(), \"Double\", { it is Double })\r\n\r\n @JsName(\"arrayClass\")\r\n val arrayClass = PrimitiveKClassImpl(js(\"Array\").unsafeCast<JsClass<Array<*>>>(), \"Array\", { it is Array<*> })\r\n\r\n @JsName(\"stringClass\")\r\n val stringClass = PrimitiveKClassImpl(js(\"String\").unsafeCast<JsClass<String>>(), \"String\", { it is String })\r\n\r\n @JsName(\"throwableClass\")\r\n val throwableClass = PrimitiveKClassImpl(js(\"Error\").unsafeCast<JsClass<Throwable>>(), \"Throwable\", { it is Throwable })\r\n\r\n @JsName(\"booleanArrayClass\")\r\n val booleanArrayClass = PrimitiveKClassImpl(js(\"Array\").unsafeCast<JsClass<BooleanArray>>(), \"BooleanArray\", { it is BooleanArray })\r\n\r\n @JsName(\"charArrayClass\")\r\n val charArrayClass = PrimitiveKClassImpl(js(\"Uint16Array\").unsafeCast<JsClass<CharArray>>(), \"CharArray\", { it is CharArray })\r\n\r\n @JsName(\"byteArrayClass\")\r\n val byteArrayClass = PrimitiveKClassImpl(js(\"Int8Array\").unsafeCast<JsClass<ByteArray>>(), \"ByteArray\", { it is ByteArray })\r\n\r\n @JsName(\"shortArrayClass\")\r\n val shortArrayClass = PrimitiveKClassImpl(js(\"Int16Array\").unsafeCast<JsClass<ShortArray>>(), \"ShortArray\", { it is ShortArray })\r\n\r\n @JsName(\"intArrayClass\")\r\n val intArrayClass = PrimitiveKClassImpl(js(\"Int32Array\").unsafeCast<JsClass<IntArray>>(), \"IntArray\", { it is IntArray })\r\n\r\n @JsName(\"longArrayClass\")\r\n val longArrayClass = PrimitiveKClassImpl(js(\"Array\").unsafeCast<JsClass<LongArray>>(), \"LongArray\", { it is LongArray })\r\n\r\n @JsName(\"floatArrayClass\")\r\n val floatArrayClass = PrimitiveKClassImpl(js(\"Float32Array\").unsafeCast<JsClass<FloatArray>>(), \"FloatArray\", { it is FloatArray })\r\n\r\n @JsName(\"doubleArrayClass\")\r\n val doubleArrayClass = PrimitiveKClassImpl(js(\"Float64Array\").unsafeCast<JsClass<DoubleArray>>(), \"DoubleArray\", { it is DoubleArray })\r\n\r\n @JsName(\"functionClass\")\r\n fun functionClass(arity: Int): KClassImpl<Any> {\r\n return functionClasses.get(arity) ?: run {\r\n val result = PrimitiveKClassImpl(js(\"Function\").unsafeCast<JsClass<Any>>(), \"Function$arity\",\r\n { jsTypeOf(it) === \"function\" && it.asDynamic().length === arity })\r\n functionClasses.asDynamic()[arity] = result\r\n result\r\n }\r\n }\r\n}\r\n\r\nprivate val functionClasses = arrayOfNulls<KClassImpl<Any>>(0)","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// a package is omitted to get declarations directly under the module\r\n\r\nimport kotlin.reflect.KClass\r\nimport kotlin.reflect.js.internal.*\r\n\r\n@JsName(\"getKClass\")\r\ninternal fun <T : Any> getKClass(jClass: JsClass<T>): KClass<T> = getOrCreateKClass(jClass)\r\n\r\n@JsName(\"getKClassFromExpression\")\r\ninternal fun <T : Any> getKClassFromExpression(e: T): KClass<T> =\r\n when (jsTypeOf(e)) {\r\n \"string\" -> PrimitiveClasses.stringClass\r\n \"number\" -> if (jsBitwiseOr(e, 0).asDynamic() === e) PrimitiveClasses.intClass else PrimitiveClasses.doubleClass\r\n \"boolean\" -> PrimitiveClasses.booleanClass\r\n \"function\" -> PrimitiveClasses.functionClass(e.asDynamic().length)\r\n else -> {\r\n when {\r\n e is BooleanArray -> PrimitiveClasses.booleanArrayClass\r\n e is CharArray -> PrimitiveClasses.charArrayClass\r\n e is ByteArray -> PrimitiveClasses.byteArrayClass\r\n e is ShortArray -> PrimitiveClasses.shortArrayClass\r\n e is IntArray -> PrimitiveClasses.intArrayClass\r\n e is LongArray -> PrimitiveClasses.longArrayClass\r\n e is FloatArray -> PrimitiveClasses.floatArrayClass\r\n e is DoubleArray ->

PrimitiveClasses.doubleArrayClass\r\n e is KClass<*> -> KClass::class\r\n e is Array<*> -> PrimitiveClasses.arrayClass\r\n else -> {\r\n val constructor = js(\"Object\").getPrototypeOf(e).constructor\r\n when {\r\n constructor === js(\"Object\") -> PrimitiveClasses.anyClass\r\n constructor === js(\"Error\") -> PrimitiveClasses.throwableClass\r\n else -> {\r\n val jsClass: JsClass<T> = constructor\r\n getOrCreateKClass(jsClass)\r\n }\r\n }\r\n }\r\n }\r\n }\r\n }.unsafeCast<KClass<T>>()\r\n\r\nprivate fun <T : Any> getOrCreateKClass(jClass: JsClass<T>): KClass<T> {\r\n if (jClass === js(\"String\")) return PrimitiveClasses.stringClass.unsafeCast<KClass<T>>()\r\n\r\n val metadata = jClass.asDynamic().`$metadata$`\r\n\r\n if (metadata != null) {\r\n if (metadata.`$kClass$` == null) {\r\n val kClass = SimpleKClassImpl(jClass)\r\n metadata.`$kClass$` = kClass\r\n kClass\r\n } else {\r\n metadata.`$kClass$`\r\n }\r\n } else {\r\n SimpleKClassImpl(jClass)\r\n }\r\n}\r\n\r\n\",\"/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.js\r\n\r\n/**\r\n * Exposes the JavaScript [RegExp object](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/RegExp) to Kotlin.\r\n */\r\n@Suppress(\"NOT_DOCUMENTED\")\r\npublic external class RegExp(pattern: String, flags: String? = definedExternally) {\r\n\r\n public fun test(str: String): Boolean\r\n\r\n public fun exec(str: String): RegExpMatch?\r\n\r\n public override fun toString(): String\r\n\r\n /**\r\n * The lastIndex is a read/write integer property of regular expressions that specifies the index at which to start the next match.\r\n */\r\n public var lastIndex: Int\r\n\r\n public val global: Boolean\r\n public val ignoreCase: Boolean\r\n public val multiline: Boolean\r\n}\r\n\r\n/**\r\n * Resets the regular expression so that subsequent [RegExp.test] and [RegExp.exec] calls will match starting with the beginning of the input string.\r\n */\r\npublic fun RegExp.reset() {\r\n lastIndex = 0\r\n}\r\n\r\n// TODO: Inherit from array or introduce asArray() extension\r\n/**\r\n * Represents the return value of [RegExp.exec].\r\n */\r\n@Suppress(\"NOT_DOCUMENTED\")\r\npublic external interface RegExpMatch {\r\n public val index: Int\r\n public val input: String\r\n public val length: Int\r\n}\r\n\r\n/**\r\n * Returns the entire text matched by [RegExp.exec] if the [index] parameter is 0, or the text matched by the capturing parenthesis\r\n * at the given index.\r\n */\r\npublic inline operator fun RegExpMatch.get(index: Int): String? = asDynamic()[index]\r\n\r\n/**\r\n * Converts the result of [RegExp.exec] to an array where the first element contains the entire matched text and each subsequent\r\n * element is the text matched by each capturing parenthesis.\r\n */\r\npublic inline fun RegExpMatch.asArray(): Array<out String?> = unsafeCast<Array<out String?>>()\r\n\",\"/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.sequences\r\n\r\ninternal actual class ConstrainedOnceSequence<T> actual constructor(sequence: Sequence<T>) : Sequence<T> {\r\n private var sequenceRef: Sequence<T>? = sequence\r\n\r\n actual override fun iterator(): Iterator<T> {\r\n val sequence = sequenceRef ?: throw IllegalStateException(\"This sequence can be consumed only once.\")\r\n sequenceRef = null\r\n return sequence.iterator()\r\n }\r\n}\r\n\",\"/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.text\r\n\r\n// actually \\s is enough to match all whitespace, but \\xA0 added because of different regexp behavior of Rhino used in Selenium tests\r\npublic actual fun Char.isWhitespace(): Boolean = toString().matches(\"[\\\\s\\\\xA0]\")\r\n\r\n@kotlin.internal.InlineOnly\r\npublic actual inline fun Char.toLowerCase(): Char = js(\"String.fromCharCode\")(toInt()).toLowerCase().charCodeAt(0).unsafeCast<Int>().toChar()\r\n\r\n@kotlin.internal.InlineOnly\r\npublic actual inline fun Char.toUpperCase(): Char = js(\"String.fromCharCode\")(toInt()).toUpperCase().charCodeAt(0).unsafeCast<Int>().toChar()\r\n\r\n/**\r\n * Returns `true` if this character is a Unicode high-surrogate code unit (also known as leading-surrogate code unit).\r\n */\r\npublic actual fun Char.isHighSurrogate(): Boolean = this in Char.MIN_HIGH_SURROGATE..Char.MAX_HIGH_SURROGATE\r\n\r\n/**\r\n * Returns `true` if this character

is a Unicode low-surrogate code unit (also known as trailing-surrogate code unit).\r\n */\r\npublic actual fun Char.isLowSurrogate(): Boolean = this in Char.MIN_LOW_SURROGATE..Char.MAX_LOW_SURROGATE\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.text\r\n\r\n\r\n/**\r\n * Returns `true` if the contents of this string is equal to the word \"true\", ignoring case, and `false` otherwise.\r\n */\r\npublic actual fun String.toBoolean(): Boolean = toLowerCase() == \"true\"\r\n\r\n/**\r\n * Parses the string as a signed [Byte] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n */\r\npublic actual fun String.toByte(): Byte = toByteOrNull() ?: numberFormatError(this)\r\n\r\n/**\r\n * Parses the string as a signed [Byte] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\r\n */\r\npublic actual fun String.toByte(radix: Int): Byte = toByteOrNull(radix) ?: numberFormatError(this)\r\n\r\n/**\r\n * Parses the string as a [Short] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n */\r\npublic actual fun String.toShort(): Short = toShortOrNull() ?: numberFormatError(this)\r\n\r\n/**\r\n * Parses the string as a [Short] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\r\n */\r\npublic actual fun String.toShort(radix: Int): Short = toShortOrNull(radix) ?: numberFormatError(this)\r\n\r\n/**\r\n * Parses the string as an [Int] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n */\r\npublic actual fun String.toInt(): Int = toIntOrNull() ?: numberFormatError(this)\r\n\r\n/**\r\n * Parses the string as an [Int] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\r\n */\r\npublic actual fun String.toInt(radix: Int): Int = toIntOrNull(radix) ?: numberFormatError(this)\r\n\r\n/**\r\n * Parses the string as a [Long] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n */\r\npublic actual fun String.toLong(): Long = toLongOrNull() ?: numberFormatError(this)\r\n\r\n/**\r\n * Parses the string as a [Long] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\r\n */\r\npublic actual fun String.toLong(radix: Int): Long = toLongOrNull(radix) ?: numberFormatError(this)\r\n\r\n/**\r\n * Parses the string as a [Double] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n */\r\npublic actual fun String.toDouble(): Double = (+(this.asDynamic())).unsafeCast<Double>().also {\r\n   if (it.isNaN() && !this.isNaN() || it == 0.0 && this.isBlank())\r\n   numberFormatError(this)\r\n}\r\n\r\n/**\r\n * Parses the string as a [Float] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic actual inline fun String.toFloat(): Float = toDouble().unsafeCast<Float>()\r\n\r\n/**\r\n * Parses the string as a [Double] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n */\r\npublic actual fun String.toDoubleOrNull(): Double? = (+(this.asDynamic())).unsafeCast<Double>().takeIf {\r\n   !(it.isNaN() && !this.isNaN() || it == 0.0 && this.isBlank())\r\n}\r\n\r\n/**\r\n * Parses the string as a [Float] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic actual inline fun String.toFloatOrNull(): Float? = toDoubleOrNull().unsafeCast<Float?>()\r\n\r\n/**\r\n * Returns a string representation of this [Byte] value in the specified [radix].\r\n *\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@kotlin.internal.InlineOnly\r\npublic actual inline fun Byte.toString(radix: Int): String = this.toInt().toString(radix)\r\n\r\n/**\r\n * Returns a string representation of this [Short] value in the specified [radix].\r\n *\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to

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string conversion.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@kotlin.internal.InlineOnly\r\npublic actual inline fun Short.toString(radix: Int): String = this.toInt().toString(radix)\r\n\r\n/**\r\n * Returns a string representation of this [Int] value in the specified [radix].\r\n *\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual fun Int.toString(radix: Int): String = asDynamic().toString(checkRadix(radix))\r\n\r\nprivate fun String.isNaN(): Boolean = when (this.toLowerCase()) {\r\n    \"nan\", \"+nan\", \"-nan\" -> true\r\n    else -> false\r\n}\r\n\r\n/**\r\n * Checks whether the given [radix] is valid radix for string to number and number to string conversion.\r\n */\r\n@PublishedApi\r\ninternal actual fun checkRadix(radix: Int): Int {\r\n    if (radix !in 2..36) {\r\n        throw IllegalArgumentException(\"radix $radix was not in valid range 2..36\")\r\n    }\r\n    return radix\r\n}\r\n\r\ninternal actual fun digitOf(char: Char, radix: Int): Int = when {\r\n    char >= '0' && char <= '9' -> char - '0'\r\n    char >= 'A' && char <= 'Z' -> char - 'A' + 10\r\n    char >= 'a' && char <= 'z' -> char - 'a' + 10\r\n    else -> -1\r\n}.let { if (it >= radix) -1 else it }\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.text\r\n\r\nimport kotlin.js.RegExp\r\n\r\n/**\r\n * Provides enumeration values to use to set regular expression options.\r\n */\r\npublic actual enum class RegexOption(val value: String) {\r\n    /** Enables case-insensitive matching. */\r\n    IGNORE_CASE(\"i\"),\r\n    /** Enables multiline mode.\r\n     *\r\n     * In multiline mode the expressions `^` and `$` match just after or just before,\r\n     * respectively, a line terminator or the end of the input sequence. */\r\n    MULTILINE(\"m\")\r\n}\r\n\r\n\r\n/**\r\n * Represents the results from a single capturing group within a [MatchResult] of [Regex].\r\n *\r\n * @param value The value of captured group.\r\n */\r\npublic actual data class MatchGroup(actual val value: String)\r\n\r\n/**\r\n * Represents a compiled regular expression.\r\n * Provides functions to match strings in text with a pattern, replace the found occurrences and split text around matches.\r\n *\r\n * For pattern syntax reference see [MDN RegExp](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/RegExp#Special_characters_meaning_in_regular_expressions)\r\n * and [http://www.w3schools.com/jsref/jsref_obj_regexp.asp](https://www.w3schools.com/jsref/jsref_obj_regexp.asp).\r\n *\r\n * @constructor Creates a regular expression from the specified [pattern] string and the specified set of [options].\r\n */\r\npublic actual class Regex actual constructor(pattern: String, options: Set<RegexOption>) {\r\n\r\n    /** Creates a regular expression from the specified [pattern] string and the specified single [option]. */\r\n    public actual constructor(pattern: String, option: RegexOption) : this(pattern, setOf(option))\r\n\r\n    /** Creates a regular expression from the specified [pattern] string and the default options.  */\r\n    public actual constructor(pattern: String) : this(pattern, emptySet())\r\n\r\n\r\n    /** The pattern string of this regular expression. */\r\n    public actual val pattern: String = pattern\r\n    /** The set of options that were used to create this regular expression. */\r\n    public actual val options: Set<RegexOption> = options.toSet()\r\n    private val nativePattern: RegExp = RegExp(pattern, options.map { it.value }.joinToString(separator = \"\") + \"g\")\r\n\r\n    /** Indicates whether the regular expression matches the entire [input]. */\r\n    public actual infix fun matches(input: CharSequence): Boolean {\r\n        nativePattern.reset()\r\n        val match = nativePattern.exec(input.toString())\r\n        return match != null && match.index == 0 && nativePattern.lastIndex == input.length\r\n    }\r\n\r\n    /** Indicates whether the regular expression can find at least one match in the specified [input]. */\r\n    public actual fun containsMatchIn(input: CharSequence): Boolean {\r\n        nativePattern.reset()\r\n        return nativePattern.test(input.toString())\r\n    }\r\n\r\n    /** Returns the first match of a regular expression in the [input], beginning at the specified [startIndex].\r\n     *\r\n     * @param startIndex An index to start search with, by default 0. Must be not less than zero and not greater than `input.length()`\r\n     * @return An instance of [MatchResult] if match was found or `null` otherwise.\r\n     */\r\n    @Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\n    public actual fun find(input: CharSequence, startIndex: Int = 0): MatchResult? = nativePattern.findNext(input.toString(), startIndex)\r\n\r\n    /**\r\n     * Returns a sequence of all occurrences of a regular expression within the [input] string, beginning at the specified [startIndex].\r\n     *\r\n     * @sample samples.text.Regexps.findAll\r\n     */\r\n    @Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\n    public actual fun findAll(input:
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CharSequence, startIndex: Int = 0): Sequence<MatchResult> =\r\n        generateSequence({ find(input, startIndex) }, { match -> match.next() })\r\n\r\n    /**\r\n     * Attempts to match the entire [input] CharSequence against the pattern.\r\n     *\r\n     * @return An instance of [MatchResult] if the entire input matches or `null` otherwise.\r\n     */\r\n    public actual fun matchEntire(input: CharSequence): MatchResult? {\r\n        if (pattern.startsWith('^') && pattern.endsWith('$'))\r\n            return find(input)\r\n        else\r\n            return Regex(\"^${pattern.trimStart('^').trimEnd('$')}$\", options).find(input)\r\n    }\r\n\r\n    /**\r\n     * Replaces all occurrences of this regular expression in the specified [input] string with specified [replacement] expression.\r\n     *\r\n     * @param replacement A replacement expression that can include substitutions. See [String.prototype.replace](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String/replace) function docs for details.\r\n     */\r\n    public actual fun replace(input: CharSequence, replacement: String): String = input.toString().nativeReplace(nativePattern, replacement)\r\n\r\n    /**\r\n     * Replaces all occurrences of this regular expression in the specified [input] string with the result of\r\n     * the given function [transform] that takes [MatchResult] and returns a string to be used as a\r\n     * replacement for that match.\r\n     */\r\n    public actual inline fun replace(input: CharSequence, transform: (MatchResult) -> CharSequence): String {\r\n        var match = find(input)\r\n        if (match == null) return input.toString()\r\n\r\n        var lastStart = 0\r\n        val length = input.length\r\n        val sb = StringBuilder(length)\r\n        do {\r\n            val foundMatch = match!!\r\n            sb.append(input, lastStart, foundMatch.range.start)\r\n            sb.append(transform(foundMatch))\r\n            lastStart = foundMatch.range.endInclusive + 1\r\n            match = foundMatch.next()\r\n        } while (lastStart < length && match != null)\r\n\r\n        if (lastStart < length) {\r\n            sb.append(input, lastStart, length)\r\n        }\r\n\r\n        return sb.toString()\r\n    }\r\n\r\n    /**\r\n     * Replaces the first occurrence of this regular expression in the specified [input] string with specified [replacement] expression.\r\n     *\r\n     * @param replacement A replacement expression that can include substitutions. See [String.prototype.replace](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String/replace) function docs for details.\r\n     */\r\n    public actual fun replaceFirst(input: CharSequence, replacement: String): String {\r\n        val nonGlobalOptions = options.map { it.value }.joinToString(separator = \"\")\r\n        return input.toString().nativeReplace(RegExp(pattern, nonGlobalOptions), replacement)\r\n    }\r\n\r\n    /**\r\n     * Splits the [input] CharSequence around matches of this regular expression.\r\n     *\r\n     * @param limit Non-negative value specifying the maximum number of substrings the string can be split to.\r\n     * Zero by default means no limit is set.\r\n     */\r\n    @Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\n    public actual fun split(input: CharSequence, limit: Int = 0): List<String> {\r\n        require(limit >= 0) { \"Limit must be non-negative, but was $limit\" }\r\n        val matches = findAll(input).let { if (limit == 0) it else it.take(limit - 1) }\r\n        val result = mutableListOf<String>()\r\n        var lastStart = 0\r\n\r\n        for (match in matches) {\r\n            result.add(input.subSequence(lastStart, match.range.start).toString())\r\n            lastStart = match.range.endInclusive + 1\r\n        }\r\n        result.add(input.subSequence(lastStart, input.length).toString())\r\n        return result\r\n    }\r\n\r\n\r\n    /**\r\n     * Returns the string representation of this regular expression, namely the [pattern] of this regular expression.\r\n     *\r\n     * Note that another regular expression constructed from the same pattern string may have different [options]\r\n     * and may match strings differently.\r\n     */\r\n    public override fun toString(): String = nativePattern.toString()\r\n\r\n    actual companion object {\r\n        /**\r\n         * Returns a regular expression that matches the specified [literal] string literally.\r\n         * No characters of that string will have special meaning when searching for an occurrence of the regular expression.\r\n         */\r\n        public actual fun fromLiteral(literal: String): Regex = Regex(escape(literal))\r\n\r\n        /**\r\n         * Returns a regular expression pattern string that matches the specified [literal] string literally.\r\n         * No characters of that string will have special meaning when searching for an occurrence of the regular expression.\r\n         */\r\n        public actual fun escape(literal: String): String = literal.nativeReplace(patternEscape, \"\\\\$&\")\r\n\r\n        /**\r\n         * Returns a literal replacement expression for the specified [literal] string.\r\n         * No characters of that string will have special meaning when it is used as a replacement string in [Regex.replace] function.\r\n         */\r\n        public actual fun escapeReplacement(literal: String): String = literal.nativeReplace(replacementEscape, \"$$$$\")\r\n\r\n
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private val patternEscape = RegExp(\"\"\"[-\\\\^$*+?.()|[\\]{}]\"\"\", \"g\")\r\n private val replacementEscape = RegExp(\"\"\"\\$\"\"\", \"g\")\r\n }\r\n}\r\n\r\n/** Creates a regular expression from the specified [pattern] string and the specified single [option]. */\r\n@Deprecated(\"Provided for binary compatibility\", level = DeprecationLevel.HIDDEN)\r\n@JsName(\"Regex_sb3q2\\$\")\r\npublic fun Regex_0(pattern: String, option: RegexOption): Regex = Regex(pattern, setOf(option))\r\n\r\n/** Creates a regular expression from the specified [pattern] string and the default options. */\r\n@Deprecated(\"Provided for binary compatibility\", level = DeprecationLevel.HIDDEN)\r\n@JsName(\"Regex_61zpoe\\$\")\r\npublic fun Regex_1(pattern: String): Regex = Regex(pattern, emptySet())\r\n\r\n\r\n\r\n\r\n\r\nprivate fun RegExp.findNext(input: String, from: Int): MatchResult? {\r\n this.lastIndex = from\r\n val match = exec(input)\r\n if (match == null) return null\r\n val range = match.index..lastIndex - 1\r\n\r\n return object : MatchResult {\r\n override val range: IntRange = range\r\n override val value: String\r\n get() = match[0]!!\r\n\r\n override val groups: MatchGroupCollection = object : MatchGroupCollection, AbstractCollection<MatchGroup?>() {\r\n override val size: Int get() = match.length\r\n override fun iterator(): Iterator<MatchGroup?> = indices.asSequence().map { this[it] }.iterator()\r\n override fun get(index: Int): MatchGroup? = match[index]?.let { MatchGroup(it) }\r\n }\r\n\r\n\r\n private var groupValues_: List<String>? = null\r\n\r\n override val groupValues: List<String>\r\n get() {\r\n if (groupValues_ == null) {\r\n groupValues_ = object : AbstractList<String>() {\r\n override val size: Int get() = match.length\r\n override fun get(index: Int): String = match[index] ?: \"\"\r\n }\r\n }\r\n return groupValues_!!\r\n }\r\n\r\n override fun next(): MatchResult? = this@findNext.findNext(input, if (range.isEmpty()) range.start + 1 else range.endInclusive + 1)\r\n }\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.text\r\n\r\nimport kotlin.js.RegExp\r\n\r\n@kotlin.internal.InlineOnly\r\ninternal actual inline fun String.nativeIndexOf(ch: Char, fromIndex: Int): Int = nativeIndexOf(ch.toString(), fromIndex)\r\n\r\n@kotlin.internal.InlineOnly\r\ninternal actual inline fun String.nativeLastIndexOf(ch: Char, fromIndex: Int): Int = nativeLastIndexOf(ch.toString(), fromIndex)\r\n\r\n/**\r\n * Returns `true` if this string starts with the specified prefix.\r\n */\r\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\npublic actual fun String.startsWith(prefix: String, ignoreCase: Boolean = false): Boolean {\r\n if (!ignoreCase)\r\n return nativeStartsWith(prefix, 0)\r\n else\r\n return regionMatches(0, prefix, 0, prefix.length, ignoreCase)\r\n}\r\n\r\n/**\r\n * Returns `true` if a substring of this string starting at the specified offset [startIndex] starts with the specified prefix.\r\n */\r\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\npublic actual fun String.startsWith(prefix: String, startIndex: Int, ignoreCase: Boolean = false): Boolean {\r\n if (!ignoreCase)\r\n return nativeStartsWith(prefix, startIndex)\r\n else\r\n return regionMatches(startIndex, prefix, 0, prefix.length, ignoreCase)\r\n}\r\n\r\n/**\r\n * Returns `true` if this string ends with the specified suffix.\r\n */\r\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\npublic actual fun String.endsWith(suffix: String, ignoreCase: Boolean = false): Boolean {\r\n if (!ignoreCase)\r\n return nativeEndsWith(suffix)\r\n else\r\n return regionMatches(length - suffix.length, suffix, 0, suffix.length, ignoreCase)\r\n}\r\n\r\n\r\npublic fun String.matches(regex: String): Boolean {\r\n val result = this.match(regex)\r\n return result != null && result.size != 0\r\n}\r\n\r\npublic actual fun CharSequence.isBlank(): Boolean = length == 0 || (if (this is String) this else this.toString()).matches(\"^[\\\\s\\\\xA0]+$\")\r\n\r\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\npublic actual fun String?.equals(other: String?, ignoreCase: Boolean = false): Boolean =\r\n if (this == null)\r\n other == null\r\n else if (!ignoreCase)\r\n this == other\r\n else\r\n other != null && this.toLowerCase() == other.toLowerCase()\r\n\r\n\r\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\npublic actual fun CharSequence.regionMatches(thisOffset: Int, other: CharSequence, otherOffset: Int, length: Int, ignoreCase: Boolean = false): Boolean =\r\n regionMatchesImpl(thisOffset, other, otherOffset, length,

ignoreCase)\r\n\r\n\r\n/**\r\n * Returns a copy of this string having its first letter uppercased, or the original string,\r\n * if it's empty or already starts with an upper case letter.\r\n *\r\n * @sample samples.text.Strings.capitalize\r\n */\r\npublic actual fun String.capitalize(): String {\r\n return if (isNotEmpty()) substring(0, 1).toUpperCase() + substring(1) else this\r\n}\r\n\r\n/**\r\n * Returns a copy of this string having its first letter lowercased, or the original string,\r\n * if it's empty or already starts with a lower case letter.\r\n *\r\n * @sample samples.text.Strings.decapitalize\r\n */\r\npublic actual fun String.decapitalize(): String {\r\n return if (isNotEmpty()) substring(0, 1).toLowerCase() + substring(1) else this\r\n}\r\n\r\n/**\r\n * Returns a string containing this char sequence repeated [n] times.\r\n * @throws [IllegalArgumentException] when n < 0.\r\n */\r\npublic actual fun CharSequence.repeat(n: Int): String {\r\n require(n >= 0) { \"Count 'n' must be non-negative, but was $n.\" }\r\n return when (n) {\r\n 0 -> \"\"\r\n 1 -> this.toString()\r\n else -> {\r\n var result = \"\"\r\n if (!isEmpty()) {\r\n var s = this.toString()\r\n var count = n\r\n while (true) {\r\n if ((count and 1) == 1) {\r\n result += s\r\n }\r\n count = count ushr 1\r\n if (count == 0) {\r\n break\r\n }\r\n s += s\r\n }\r\n }\r\n return result\r\n }\r\n }\r\n}\r\n\r\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\npublic actual fun String.replace(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =\r\n nativeReplace(RegExp(Regex.escape(oldValue), if (ignoreCase) \"gi\" else \"g\"), Regex.escapeReplacement(newValue))\r\n\r\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\npublic actual fun String.replace(oldChar: Char, newChar: Char, ignoreCase: Boolean = false): String =\r\n nativeReplace(RegExp(Regex.escape(oldChar.toString()), if (ignoreCase) \"gi\" else \"g\"), newChar.toString())\r\n\r\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\npublic actual fun String.replaceFirst(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =\r\n nativeReplace(RegExp(Regex.escape(oldValue), if (ignoreCase) \"i\" else \"\"), Regex.escapeReplacement(newValue))\r\n\r\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\npublic actual fun String.replaceFirst(oldChar: Char, newChar: Char, ignoreCase: Boolean = false): String =\r\n nativeReplace(RegExp(Regex.escape(oldChar.toString()), if (ignoreCase) \"i\" else \"\"), newChar.toString())\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.text\r\n\r\n\r\npublic actual interface Appendable {\r\n public actual fun append(csq: CharSequence?): Appendable\r\n public actual fun append(csq: CharSequence?, start: Int, end: Int): Appendable\r\n public actual fun append(c: Char): Appendable\r\n}\r\n\r\npublic actual class StringBuilder(content: String = \"\") : Appendable, CharSequence {\r\n actual constructor(capacity: Int) : this() {}\r\n\r\n actual constructor(content: CharSequence) : this(content.toString()) {}\r\n\r\n actual constructor() : this(\"\")\r\n\r\n private var string: String = content\r\n\r\n actual override val length: Int\r\n get() = string.asDynamic().length\r\n\r\n actual override fun get(index: Int): Char =\r\n string.getOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, length: $length}\") }\r\n\r\n actual override fun subSequence(startIndex: Int, endIndex: Int): CharSequence = string.substring(startIndex, endIndex)\r\n\r\n actual override fun append(c: Char): StringBuilder {\r\n string += c\r\n return this\r\n }\r\n\r\n actual override fun append(csq: CharSequence?): StringBuilder {\r\n string += csq.toString()\r\n return this\r\n }\r\n\r\n actual override fun append(csq: CharSequence?, start: Int, end: Int): StringBuilder {\r\n string += csq.toString().substring(start, end)\r\n return this\r\n }\r\n\r\n actual fun append(obj: Any?): StringBuilder {\r\n string += obj.toString()\r\n return this\r\n }\r\n\r\n actual fun reverse(): StringBuilder {\r\n string = string.asDynamic().split(\"\").reverse().join(\"\")\r\n return this\r\n }\r\n\r\n /**\r\n * Clears the content of this string builder making it empty.\r\n *\r\n * @sample samples.text.Strings.clearStringBuilder\r\n */\r\n @SinceKotlin(\"1.3\")\r\n public fun clear(): StringBuilder {\r\n string = \"\"\r\n return this\r\n }\r\n\r\n override fun toString(): String = string\r\n}\r\n\r\n\r\n\r\n\r\n/**\r\n * Clears the content of this string builder making it empty.\r\n *\r\n * @sample samples.text.Strings.clearStringBuilder\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\",

\"NOTHING_TO_INLINE\")\r\npublic actual inline fun StringBuilder.clear(): StringBuilder = this.clear()\r\n\r\n\r\n/**\r\n * The exception thrown when a character encoding or decoding error occurs.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic actual open class CharacterCodingException(message: String?) : Exception(message) {\r\n   actual constructor() : this(null)\r\n}\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.text\r\n\r\n/** Returns the negative [size] if [throwOnMalformed] is false, throws [CharacterCodingException] otherwise. */\r\n@UseExperimental(ExperimentalStdlibApi::class)\r\nprivate fun malformed(size: Int, index: Int, throwOnMalformed: Boolean): Int {\r\n   if (throwOnMalformed) throw CharacterCodingException(\"Malformed sequence starting at ${index - 1}\")\r\n   return -size\r\n}\r\n\r\n/**\r\n * Returns code point corresponding to UTF-16 surrogate pair,\r\n * where the first of the pair is the [high] and the second is in the [string] at the [index].\r\n * Returns zero if the pair is malformed and [throwOnMalformed] is false.\r\n *\r\n * @throws CharacterCodingException if the pair is malformed and [throwOnMalformed] is true.\r\n */\r\nprivate fun codePointFromSurrogate(string: String, high: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {\r\n   if (high !in 0xD800..0xDBFF || index >= endIndex) {\r\n   return malformed(0, index, throwOnMalformed)\r\n   }\r\n   val low = string[index].toInt()\r\n   if (low !in 0xDC00..0xDFFF) {\r\n   return malformed(0, index, throwOnMalformed)\r\n   }\r\n   return 0x10000 + ((high and 0x3FF) shl 10) or (low and 0x3FF)\r\n}\r\n\r\n/**\r\n * Returns code point corresponding to UTF-8 sequence of two bytes,\r\n * where the first byte of the sequence is the [byte1] and the second byte is in the [bytes] array at the [index].\r\n * Returns zero if the sequence is malformed and [throwOnMalformed] is false.\r\n *\r\n * @throws CharacterCodingException if the sequence of two bytes is malformed and [throwOnMalformed] is true.\r\n */\r\nprivate fun codePointFrom2(bytes: ByteArray, byte1: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {\r\n   if (byte1 and 0x1E == 0 || index >= endIndex) {\r\n   return malformed(0, index, throwOnMalformed)\r\n   }\r\n   val byte2 = bytes[index].toInt()\r\n   if (byte2 and 0xC0 != 0x80) {\r\n   return malformed(0, index, throwOnMalformed)\r\n   }\r\n   return (byte1 shl 6) xor byte2 xor 0xF80\r\n}\r\n\r\n/**\r\n * Returns code point corresponding to UTF-8 sequence of three bytes,\r\n * where the first byte of the sequence is the [byte1] and the others are in the [bytes] array starting from the [index].\r\n * Returns a non-positive value indicating number of bytes from [bytes] included in malformed sequence\r\n * if the sequence is malformed and [throwOnMalformed] is false.\r\n *\r\n * @throws CharacterCodingException if the sequence of three bytes is malformed and [throwOnMalformed] is true.\r\n */\r\nprivate fun codePointFrom3(bytes: ByteArray, byte1: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {\r\n   if (index >= endIndex) {\r\n   return malformed(0, index, throwOnMalformed)\r\n   }\r\n\r\n   val byte2 = bytes[index].toInt()\r\n   if (byte1 and 0xF == 0) {\r\n   if (byte2 and 0xE0 != 0xA0) {\r\n   // Non-shortest form\r\n   return malformed(0, index, throwOnMalformed)\r\n   }\r\n   } else if (byte1 and 0xF == 0xD) {\r\n   if (byte2 and 0xE0 != 0x80) {\r\n   // Surrogate code point\r\n   return malformed(0, index, throwOnMalformed)\r\n   }\r\n   } else if (byte2 and 0xC0 != 0x80) {\r\n   return malformed(0, index, throwOnMalformed)\r\n   }\r\n\r\n   if (index + 1 == endIndex) {\r\n   return malformed(1, index, throwOnMalformed)\r\n   }\r\n   val byte3 = bytes[index + 1].toInt()\r\n   if (byte3 and 0xC0 != 0x80) {\r\n   return malformed(1, index, throwOnMalformed)\r\n   }\r\n\r\n   return (byte1 shl 12) xor (byte2 shl 6) xor byte3 xor -0x1E080\r\n}\r\n\r\n/**\r\n * Returns code point corresponding to UTF-8 sequence of four bytes,\r\n * where the first byte of the sequence is the [byte1] and the others are in the [bytes] array starting from the [index].\r\n * Returns a non-positive value indicating number of bytes from [bytes] included in malformed sequence\r\n * if the sequence is malformed and [throwOnMalformed] is false.\r\n *\r\n * @throws CharacterCodingException if the sequence of four bytes is malformed and [throwOnMalformed] is true.\r\n */\r\nprivate fun codePointFrom4(bytes: ByteArray, byte1: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {\r\n   if (index >= endIndex) {\r\n   malformed(0, index, throwOnMalformed)\r\n   }\r\n\r\n   val byte2 = bytes[index].toInt()\r\n   if (byte1 and 0xF == 0x0) {\r\n   if (byte2 and 0xF0 <= 0x80) {\r\n   // Non-shortest form\r\n   return malformed(0, index, throwOnMalformed)\r\n   }\r\n   } else if (byte1 and 0xF == 0x4) {\r\n   if (byte2 and

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0xF0 != 0x80) {\r\n            // Out of Unicode code points domain (larger than U+10FFFF)\r\n            return malformed(0, index, throwOnMalformed)\r\n        }\r\n    } else if (byte1 and 0xF > 0x4) {\r\n        return malformed(0, index, throwOnMalformed)\r\n    } else if (byte2 and 0xC0 != 0x80) {\r\n        return malformed(0, index, throwOnMalformed)\r\n    }\r\n\r\n    if (index + 1 == endIndex) {\r\n        return malformed(1, index, throwOnMalformed)\r\n    }\r\n    val byte3 = bytes[index + 1].toInt()\r\n    if (byte3 and 0xC0 != 0x80) {\r\n        return malformed(1, index, throwOnMalformed)\r\n    }\r\n\r\n    if (index + 2 == endIndex) {\r\n        return malformed(2, index, throwOnMalformed)\r\n    }\r\n    val byte4 = bytes[index + 2].toInt()\r\n    if (byte4 and 0xC0 != 0x80) {\r\n        return malformed(2, index, throwOnMalformed)\r\n    }\r\n    return (byte1 shl 18) xor (byte2 shl 12) xor (byte3 shl 6) xor byte4 xor 0x381F80\r\n}\r\n\r\n/**\r\n * Maximum number of bytes needed to encode a single char.\r\n *\r\n * Code points in `0..0x7F` are encoded in a single byte.\r\n * Code points in `0x80..0x7FF` are encoded in two bytes.\r\n * Code points in `0x800..0xD7FF` or in `0xE000..0xFFFF` are encoded in three bytes.\r\n * Surrogate code points in `0xD800..0xDFFF` are not Unicode scalar values, therefore aren't encoded.\r\n * Code points in `0x10000..0x10FFFF` are represented by a pair of surrogate `Char`s and are encoded in four bytes.\r\n */\r\nprivate const val MAX_BYTES_PER_CHAR = 3\r\n\r\n/**\r\n * The byte sequence a malformed UTF-16 char sequence is replaced by.\r\n */\r\nprivate val REPLACEMENT_BYTE_SEQUENCE: ByteArray = byteArrayOf(0xEF.toByte(), 0xBF.toByte(), 0xBD.toByte())\r\n\r\n/**\r\n * Encodes the [string] using UTF-8 and returns the resulting [ByteArray].\r\n *\r\n * @param string the string to encode.\r\n * @param startIndex the start offset (inclusive) of the substring to encode.\r\n * @param endIndex the end offset (exclusive) of the substring to encode.\r\n * @param throwOnMalformed whether to throw on malformed char sequence or replace by the [REPLACEMENT_BYTE_SEQUENCE].\r\n *\r\n * @throws CharacterCodingException if the char sequence is malformed and [throwOnMalformed] is true.\r\n */\r\ninternal fun encodeUtf8(string: String, startIndex: Int, endIndex: Int, throwOnMalformed: Boolean): ByteArray {\r\n    require(startIndex >= 0 && endIndex <= string.length && startIndex <= endIndex)\r\n\r\n    val bytes = ByteArray((endIndex - startIndex) * MAX_BYTES_PER_CHAR)\r\n    var byteIndex = 0\r\n    var charIndex = startIndex\r\n\r\n    while (charIndex < endIndex) {\r\n        val code = string[charIndex++].toInt()\r\n        when {\r\n            code < 0x80 ->\r\n                bytes[byteIndex++] = code.toByte()\r\n            code < 0x800 -> {\r\n                bytes[byteIndex++] = ((code shr 6) or 0xC0).toByte()\r\n                bytes[byteIndex++] = ((code and 0x3F) or 0x80).toByte()\r\n            }\r\n            code < 0xD800 || code >= 0xE000 -> {\r\n                bytes[byteIndex++] = ((code shr 12) or 0xE0).toByte()\r\n                bytes[byteIndex++] = (((code shr 6) and 0x3F) or 0x80).toByte()\r\n                bytes[byteIndex++] = ((code and 0x3F) or 0x80).toByte()\r\n            }\r\n            else -> { // Surrogate char value\r\n                val codePoint = codePointFromSurrogate(string, code, charIndex, endIndex, throwOnMalformed)\r\n                if (codePoint <= 0) {\r\n                    bytes[byteIndex++] = REPLACEMENT_BYTE_SEQUENCE[0]\r\n                    bytes[byteIndex++] = REPLACEMENT_BYTE_SEQUENCE[1]\r\n                    bytes[byteIndex++] = REPLACEMENT_BYTE_SEQUENCE[2]\r\n                } else {\r\n                    bytes[byteIndex++] = ((codePoint shr 18) or 0xF0).toByte()\r\n                    bytes[byteIndex++] = (((codePoint shr 12) and 0x3F) or 0x80).toByte()\r\n                    bytes[byteIndex++] = (((codePoint shr 6) and 0x3F) or 0x80).toByte()\r\n                    bytes[byteIndex++] = ((codePoint and 0x3F) or 0x80).toByte()\r\n                    charIndex++\r\n                }\r\n            }\r\n        }\r\n    }\r\n\r\n    return if (bytes.size == byteIndex) bytes else bytes.copyOf(byteIndex)\r\n}\r\n\r\n/**\r\n * The character a malformed UTF-8 byte sequence is replaced by.\r\n */\r\nprivate const val REPLACEMENT_CHAR = '\\uFFFD'\r\n\r\n/**\r\n * Decodes the UTF-8 [bytes] array and returns the resulting [String].\r\n *\r\n * @param bytes the byte array to decode.\r\n * @param startIndex the start offset (inclusive) of the array to be decoded.\r\n * @param endIndex the end offset (exclusive) of the array to be encoded.\r\n * @param throwOnMalformed whether to throw on malformed byte sequence or replace by the [REPLACEMENT_CHAR].\r\n *\r\n * @throws CharacterCodingException if the array is malformed UTF-8 byte sequence and [throwOnMalformed] is true.\r\n */\r\ninternal fun decodeUtf8(bytes: ByteArray, startIndex: Int, endIndex: Int, throwOnMalformed: Boolean): String {\r\n    require(startIndex >= 0 && endIndex <= bytes.size && startIndex <= endIndex)\r\n\r\n    var byteIndex = startIndex\r\n    val stringBuilder = StringBuilder()\r\n\r\n    while (byteIndex < endIndex) {\r\n        val byte = bytes[byteIndex++].toInt()\r\n        when {\r\n            byte >= 0 ->\r\n
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stringBuilder.append(byte.toChar())\r\n byte shr 5 == -2 -> {\r\n val code = codePointFrom2(bytes, byte, byteIndex, endIndex, throwOnMalformed)\r\n if (code <= 0) {\r\n stringBuilder.append(REPLACEMENT_CHAR)\r\n byteIndex += -code\r\n } else {\r\n stringBuilder.append(code.toChar())\r\n byteIndex += 1\r\n }\r\n }\r\n byte shr 4 == -2 -> {\r\n val code = codePointFrom3(bytes, byte, byteIndex, endIndex, throwOnMalformed)\r\n if (code <= 0) {\r\n stringBuilder.append(REPLACEMENT_CHAR)\r\n byteIndex += -code\r\n } else {\r\n stringBuilder.append(code.toChar())\r\n byteIndex += 2\r\n }\r\n }\r\n byte shr 3 == -2 -> {\r\n val code = codePointFrom4(bytes, byte, byteIndex, endIndex, throwOnMalformed)\r\n if (code <= 0) {\r\n stringBuilder.append(REPLACEMENT_CHAR)\r\n byteIndex += -code\r\n } else {\r\n val high = (code - 0x10000) shr 10 or 0xD800\r\n val low = (code and 0x3FF) or 0xDC00\r\n stringBuilder.append(high.toChar())\r\n stringBuilder.append(low.toChar())\r\n byteIndex += 3\r\n }\r\n }\r\n else -> {\r\n malformed(0, byteIndex, throwOnMalformed)\r\n stringBuilder.append(REPLACEMENT_CHAR)\r\n }\r\n }\r\n }\r\n\r\n return stringBuilder.toString()\r\n}","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.time\r\n\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic actual enum class DurationUnit(internal val scale: Double) {\r\n /**\r\n * Time unit representing one nanosecond, which is 1/1000 of a microsecond.\r\n */\r\n NANOSECONDS(1e0),\r\n /**\r\n * Time unit representing one microsecond, which is 1/1000 of a millisecond.\r\n */\r\n MICROSECONDS(1e3),\r\n /**\r\n * Time unit representing one millisecond, which is 1/1000 of a second.\r\n */\r\n MILLISECONDS(1e6),\r\n /**\r\n * Time unit representing one second.\r\n */\r\n SECONDS(1e9),\r\n /**\r\n * Time unit representing one minute.\r\n */\r\n MINUTES(60e9),\r\n /**\r\n * Time unit representing one hour.\r\n */\r\n HOURS(3600e9),\r\n /**\r\n * Time unit representing one day, which is always equal to 24 hours.\r\n */\r\n DAYS(86400e9);\r\n}\r\n\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\ninternal actual fun convertDurationUnit(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double {\r\n val sourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)\r\n return when {\r\n sourceCompareTarget > 0 -> value * (sourceUnit.scale / targetUnit.scale)\r\n sourceCompareTarget < 0 -> value / (targetUnit.scale / sourceUnit.scale)\r\n else -> value\r\n }\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.time\r\n\r\nimport kotlin.js.json\r\nimport kotlin.math.*\r\n\r\ninternal actual fun formatToExactDecimals(value: Double, decimals: Int): String {\r\n val rounded = if (decimals == 0) {\r\n value\r\n } else {\r\n val pow = 10.0.pow(decimals)\r\n @Suppress(\"DEPRECATION\", \"DEPRECATION_ERROR\")\r\n kotlin.js.Math.round(abs(value) * pow) / pow * sign(value)\r\n }\r\n return rounded.asDynamic().toFixed(decimals).unsafeCast<String>()\r\n}\r\n\r\ninternal actual fun formatUpToDecimals(value: Double, decimals: Int): String {\r\n return value.asDynamic().toLocaleString(\"en-us\", json(\"maximumFractionDigits\" to decimals)).unsafeCast<String>()\r\n}\r\n\r\ninternal actual fun formatScientific(value: Double): String {\r\n return value.asDynamic().toExponential(2).unsafeCast<String>()\r\n}","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.time\r\n\r\nimport org.w3c.performance.GlobalPerformance\r\nimport org.w3c.performance.Performance\r\n\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic actual object MonoClock : Clock {\r\n\r\n private val actualClock: Clock = run {\r\n val isNode: Boolean = js(\"typeof process !== 'undefined' && process.versions && !!process.versions.node\")\r\n\r\n if (isNode)\r\n HrTimeClock(js(\"process\").unsafeCast<Process>())\r\n else\r\n

js(\"self\").unsafeCast<GlobalPerformance?>()?.performance?.let(::PerformanceClock)\r\n ?: DateNowClock\r\n\r\n }\r\n\r\n override fun markNow(): ClockMark = actualClock.markNow()\r\n}\r\n\r\ninternal external interface Process {\r\n fun hrtime(time: Array<Double> = definedExternally): Array<Double>\r\n}\r\n\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\ninternal class HrTimeClock(val process: Process) : Clock {\r\n\r\n override fun markNow(): ClockMark = object : ClockMark() {\r\n val startedAt = process.hrtime()\r\n override fun elapsedNow(): Duration =\r\n process.hrtime(startedAt).let { (seconds, nanos) -> seconds.seconds + nanos.nanoseconds }\r\n }\r\n\r\n override fun toString(): String = \"Clock(process.hrtime())\"\r\n}\r\n\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\ninternal class PerformanceClock(val performance: Performance) : AbstractDoubleClock(unit = DurationUnit.MILLISECONDS) {\r\n override fun read(): Double = performance.now()\r\n override fun toString(): String = \"Clock(self.performance.now())\"\r\n}\r\n\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\ninternal object DateNowClock : AbstractDoubleClock(unit = DurationUnit.MILLISECONDS) {\r\n override fun read(): Double = kotlin.js.Date.now()\r\n override fun toString(): String = \"Clock(Date.now())\"\r\n}","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\r\n// See libraries/tools/idl2k for details\r\n\r\n@file:Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\r\npackage org.khronos.webgl\r\n\r\nimport kotlin.js.*\r\nimport org.w3c.css.masking.*\r\nimport org.w3c.dom.*\r\nimport org.w3c.dom.clipboard.*\r\nimport org.w3c.dom.css.*\r\nimport org.w3c.dom.events.*\r\nimport org.w3c.dom.mediacapture.*\r\nimport org.w3c.dom.parsing.*\r\nimport org.w3c.dom.pointerevents.*\r\nimport org.w3c.dom.svg.*\r\nimport org.w3c.dom.url.*\r\nimport org.w3c.fetch.*\r\nimport org.w3c.files.*\r\nimport org.w3c.notifications.*\r\nimport org.w3c.performance.*\r\nimport org.w3c.workers.*\r\nimport org.w3c.xhr.*\r\n\r\npublic external interface WebGLContextAttributes {\r\n var alpha: Boolean? /* = true */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var depth: Boolean? /* = true */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var stencil: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var antialias: Boolean? /* = true */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var premultipliedAlpha: Boolean? /* = true */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var preserveDrawingBuffer: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var preferLowPowerToHighPerformance: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var failIfMajorPerformanceCaveat: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun WebGLContextAttributes(alpha: Boolean? = true, depth: Boolean? = true, stencil: Boolean? = false, antialias: Boolean? = true, premultipliedAlpha: Boolean? = true, preserveDrawingBuffer: Boolean? = false, preferLowPowerToHighPerformance: Boolean? = false, failIfMajorPerformanceCaveat: Boolean? = false): WebGLContextAttributes {\r\n val o = js(\"({})\")\r\n\r\n o[\"alpha\"] = alpha\r\n o[\"depth\"] = depth\r\n o[\"stencil\"] = stencil\r\n o[\"antialias\"] = antialias\r\n o[\"premultipliedAlpha\"] = premultipliedAlpha\r\n o[\"preserveDrawingBuffer\"] = preserveDrawingBuffer\r\n o[\"preferLowPowerToHighPerformance\"] = preferLowPowerToHighPerformance\r\n o[\"failIfMajorPerformanceCaveat\"] = failIfMajorPerformanceCaveat\r\n\r\n return o\r\n}\r\n\r\npublic external abstract class WebGLObject {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [WebGLBuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLBuffer) to Kotlin\r\n */\r\npublic external abstract class WebGLBuffer : WebGLObject {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [WebGLFramebuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLFramebuffer) to Kotlin\r\n */\r\npublic external abstract class WebGLFramebuffer : WebGLObject {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [WebGLProgram](https://developer.mozilla.org/en/docs/Web/API/WebGLProgram) to Kotlin\r\n */\r\npublic external abstract class WebGLProgram : WebGLObject {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript

[WebGLRenderbuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderbuffer) to Kotlin\r\n */\r\npublic external abstract class WebGLRenderbuffer : WebGLObject {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [WebGLShader](https://developer.mozilla.org/en/docs/Web/API/WebGLShader) to Kotlin\r\n */\r\npublic external abstract class WebGLShader : WebGLObject {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [WebGLTexture](https://developer.mozilla.org/en/docs/Web/API/WebGLTexture) to Kotlin\r\n */\r\npublic external abstract class WebGLTexture : WebGLObject {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [WebGLUniformLocation](https://developer.mozilla.org/en/docs/Web/API/WebGLUniformLocation) to Kotlin\r\n */\r\npublic external abstract class WebGLUniformLocation {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [WebGLActiveInfo](https://developer.mozilla.org/en/docs/Web/API/WebGLActiveInfo) to Kotlin\r\n */\r\npublic external abstract class WebGLActiveInfo {\r\n   open val size: Int\r\n   open val type: Int\r\n   open val name: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [WebGLShaderPrecisionFormat](https://developer.mozilla.org/en/docs/Web/API/WebGLShaderPrecisionFormat) to Kotlin\r\n */\r\npublic external abstract class WebGLShaderPrecisionFormat {\r\n   open val rangeMin: Int\r\n   open val rangeMax: Int\r\n   open val precision: Int\r\n}\r\n\r\npublic external interface WebGLRenderingContextBase {\r\n   val canvas: HTMLCanvasElement\r\n   val drawingBufferWidth: Int\r\n   val drawingBufferHeight: Int\r\n   fun getContextAttributes(): WebGLContextAttributes?\r\n   fun isContextLost(): Boolean\r\n   fun getSupportedExtensions(): Array<String>?\r\n   fun getExtension(name: String): dynamic\r\n   fun activeTexture(texture: Int): Unit\r\n   fun attachShader(program: WebGLProgram?, shader: WebGLShader?): Unit\r\n   fun bindAttribLocation(program: WebGLProgram?, index: Int, name: String): Unit\r\n   fun bindBuffer(target: Int, buffer: WebGLBuffer?): Unit\r\n   fun bindFramebuffer(target: Int, framebuffer: WebGLFramebuffer?): Unit\r\n   fun bindRenderbuffer(target: Int, renderbuffer: WebGLRenderbuffer?): Unit\r\n   fun bindTexture(target: Int, texture: WebGLTexture?): Unit\r\n   fun blendColor(red: Float, green: Float, blue: Float, alpha: Float): Unit\r\n   fun blendEquation(mode: Int): Unit\r\n   fun blendEquationSeparate(modeRGB: Int, modeAlpha: Int): Unit\r\n   fun blendFunc(sfactor: Int, dfactor: Int): Unit\r\n   fun blendFuncSeparate(srcRGB: Int, dstRGB: Int, srcAlpha: Int, dstAlpha: Int): Unit\r\n   fun bufferData(target: Int, size: Int, usage: Int): Unit\r\n   fun bufferData(target: Int, data: BufferDataSource?, usage: Int): Unit\r\n   fun bufferSubData(target: Int, offset: Int, data: BufferDataSource?): Unit\r\n   fun checkFramebufferStatus(target: Int): Int\r\n   fun clear(mask: Int): Unit\r\n   fun clearColor(red: Float, green: Float, blue: Float, alpha: Float): Unit\r\n   fun clearDepth(depth: Float): Unit\r\n   fun clearStencil(s: Int): Unit\r\n   fun colorMask(red: Boolean, green: Boolean, blue: Boolean, alpha: Boolean): Unit\r\n   fun compileShader(shader: WebGLShader?): Unit\r\n   fun compressedTexImage2D(target: Int, level: Int, internalformat: Int, width: Int, height: Int, border: Int, data: ArrayBufferView): Unit\r\n   fun compressedTexSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, width: Int, height: Int, format: Int, data: ArrayBufferView): Unit\r\n   fun copyTexImage2D(target: Int, level: Int, internalformat: Int, x: Int, y: Int, width: Int, height: Int, border: Int): Unit\r\n   fun copyTexSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, x: Int, y: Int, width: Int, height: Int): Unit\r\n   fun createBuffer(): WebGLBuffer?\r\n   fun createFramebuffer(): WebGLFramebuffer?\r\n   fun createProgram(): WebGLProgram?\r\n   fun createRenderbuffer(): WebGLRenderbuffer?\r\n   fun createShader(type: Int): WebGLShader?\r\n   fun createTexture(): WebGLTexture?\r\n   fun cullFace(mode: Int): Unit\r\n   fun deleteBuffer(buffer: WebGLBuffer?): Unit\r\n   fun deleteFramebuffer(framebuffer: WebGLFramebuffer?): Unit\r\n   fun deleteProgram(program: WebGLProgram?): Unit\r\n   fun deleteRenderbuffer(renderbuffer: WebGLRenderbuffer?): Unit\r\n   fun deleteShader(shader: WebGLShader?): Unit\r\n   fun deleteTexture(texture: WebGLTexture?): Unit\r\n   fun depthFunc(func: Int): Unit\r\n   fun depthMask(flag: Boolean): Unit\r\n   fun depthRange(zNear: Float, zFar: Float): Unit\r\n   fun detachShader(program: WebGLProgram?, shader: WebGLShader?): Unit\r\n   fun disable(cap: Int): Unit\r\n   fun disableVertexAttribArray(index: Int): Unit\r\n   fun drawArrays(mode: Int, first: Int, count: Int): Unit\r\n   fun drawElements(mode: Int, count: Int, type: Int, offset: Int): Unit\r\n   fun enable(cap: Int): Unit\r\n   fun enableVertexAttribArray(index: Int): Unit\r\n   fun finish(): Unit\r\n   fun flush(): Unit\r\n   fun framebufferRenderbuffer(target: Int, attachment: Int, renderbuffertarget: Int, renderbuffer: WebGLRenderbuffer?): Unit\r\n   fun framebufferTexture2D(target: Int, attachment: Int, textarget: Int, texture: WebGLTexture?, level: Int):

Unit\r\n fun frontFace(mode: Int): Unit\r\n fun generateMipmap(target: Int): Unit\r\n fun getActiveAttrib(program: WebGLProgram?, index: Int): WebGLActiveInfo?\r\n fun getActiveUniform(program: WebGLProgram?, index: Int): WebGLActiveInfo?\r\n fun getAttachedShaders(program: WebGLProgram?): Array<WebGLShader>?\r\n fun getAttribLocation(program: WebGLProgram?, name: String): Int\r\n fun getBufferParameter(target: Int, pname: Int): Any?\r\n fun getParameter(pname: Int): Any?\r\n fun getError(): Int\r\n fun getFramebufferAttachmentParameter(target: Int, attachment: Int, pname: Int): Any?\r\n fun getProgramParameter(program: WebGLProgram?, pname: Int): Any?\r\n fun getProgramInfoLog(program: WebGLProgram?): String?\r\n fun getRenderbufferParameter(target: Int, pname: Int): Any?\r\n fun getShaderParameter(shader: WebGLShader?, pname: Int): Any?\r\n fun getShaderPrecisionFormat(shadertype: Int, precisiontype: Int): WebGLShaderPrecisionFormat?\r\n fun getShaderInfoLog(shader: WebGLShader?): String?\r\n fun getShaderSource(shader: WebGLShader?): String?\r\n fun getTexParameter(target: Int, pname: Int): Any?\r\n fun getUniform(program: WebGLProgram?, location: WebGLUniformLocation?): Any?\r\n fun getUniformLocation(program: WebGLProgram?, name: String): WebGLUniformLocation?\r\n fun getVertexAttrib(index: Int, pname: Int): Any?\r\n fun getVertexAttribOffset(index: Int, pname: Int): Int\r\n fun hint(target: Int, mode: Int): Unit\r\n fun isBuffer(buffer: WebGLBuffer?): Boolean\r\n fun isEnabled(cap: Int): Boolean\r\n fun isFramebuffer(framebuffer: WebGLFramebuffer?): Boolean\r\n fun isProgram(program: WebGLProgram?): Boolean\r\n fun isRenderbuffer(renderbuffer: WebGLRenderbuffer?): Boolean\r\n fun isShader(shader: WebGLShader?): Boolean\r\n fun isTexture(texture: WebGLTexture?): Boolean\r\n fun lineWidth(width: Float): Unit\r\n fun linkProgram(program: WebGLProgram?): Unit\r\n fun pixelStorei(pname: Int, param: Int): Unit\r\n fun polygonOffset(factor: Float, units: Float): Unit\r\n fun readPixels(x: Int, y: Int, width: Int, height: Int, format: Int, type: Int, pixels: ArrayBufferView?): Unit\r\n fun renderbufferStorage(target: Int, internalformat: Int, width: Int, height: Int): Unit\r\n fun sampleCoverage(value: Float, invert: Boolean): Unit\r\n fun scissor(x: Int, y: Int, width: Int, height: Int): Unit\r\n fun shaderSource(shader: WebGLShader?, source: String): Unit\r\n fun stencilFunc(func: Int, ref: Int, mask: Int): Unit\r\n fun stencilFuncSeparate(face: Int, func: Int, ref: Int, mask: Int): Unit\r\n fun stencilMask(mask: Int): Unit\r\n fun stencilMaskSeparate(face: Int, mask: Int): Unit\r\n fun stencilOp(fail: Int, zfail: Int, zpass: Int): Unit\r\n fun stencilOpSeparate(face: Int, fail: Int, zfail: Int, zpass: Int): Unit\r\n fun texImage2D(target: Int, level: Int, internalformat: Int, width: Int, height: Int, border: Int, format: Int, type: Int, pixels: ArrayBufferView?): Unit\r\n fun texImage2D(target: Int, level: Int, internalformat: Int, format: Int, type: Int, source: TexImageSource?): Unit\r\n fun texParameterf(target: Int, pname: Int, param: Float): Unit\r\n fun texParameteri(target: Int, pname: Int, param: Int): Unit\r\n fun texSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, width: Int, height: Int, format: Int, type: Int, pixels: ArrayBufferView?): Unit\r\n fun texSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, format: Int, type: Int, source: TexImageSource?): Unit\r\n fun uniform1f(location: WebGLUniformLocation?, x: Float): Unit\r\n fun uniform1fv(location: WebGLUniformLocation?, v: Float32Array): Unit\r\n fun uniform1fv(location: WebGLUniformLocation?, v: Array<Float>): Unit\r\n fun uniform1i(location: WebGLUniformLocation?, x: Int): Unit\r\n fun uniform1iv(location: WebGLUniformLocation?, v: Int32Array): Unit\r\n fun uniform1iv(location: WebGLUniformLocation?, v: Array<Int>): Unit\r\n fun uniform2f(location: WebGLUniformLocation?, x: Float, y: Float): Unit\r\n fun uniform2fv(location: WebGLUniformLocation?, v: Float32Array): Unit\r\n fun uniform2fv(location: WebGLUniformLocation?, v: Array<Float>): Unit\r\n fun uniform2i(location: WebGLUniformLocation?, x: Int, y: Int): Unit\r\n fun uniform2iv(location: WebGLUniformLocation?, v: Int32Array): Unit\r\n fun uniform2iv(location: WebGLUniformLocation?, v: Array<Int>): Unit\r\n fun uniform3f(location: WebGLUniformLocation?, x: Float, y: Float, z: Float): Unit\r\n fun uniform3fv(location: WebGLUniformLocation?, v: Float32Array): Unit\r\n fun uniform3fv(location: WebGLUniformLocation?, v: Array<Float>): Unit\r\n fun uniform3i(location: WebGLUniformLocation?, x: Int, y: Int, z: Int): Unit\r\n fun uniform3iv(location: WebGLUniformLocation?, v: Int32Array): Unit\r\n fun uniform3iv(location: WebGLUniformLocation?, v: Array<Int>): Unit\r\n fun uniform4f(location: WebGLUniformLocation?, x: Float, y: Float, z: Float, w: Float): Unit\r\n fun uniform4fv(location: WebGLUniformLocation?, v: Float32Array): Unit\r\n fun uniform4fv(location: WebGLUniformLocation?, v: Array<Float>): Unit\r\n fun uniform4i(location:

WebGLUniformLocation?, x: Int, y: Int, z: Int, w: Int): Unit\r\n fun uniform4iv(location: WebGLUniformLocation?, v: Int32Array): Unit\r\n fun uniform4iv(location: WebGLUniformLocation?, v: Array<Int>): Unit\r\n fun uniformMatrix2fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array): Unit\r\n fun uniformMatrix2fv(location: WebGLUniformLocation?, transpose: Boolean, value: Array<Float>): Unit\r\n fun uniformMatrix3fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array): Unit\r\n fun uniformMatrix3fv(location: WebGLUniformLocation?, transpose: Boolean, value: Array<Float>): Unit\r\n fun uniformMatrix4fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array): Unit\r\n fun uniformMatrix4fv(location: WebGLUniformLocation?, transpose: Boolean, value: Array<Float>): Unit\r\n fun useProgram(program: WebGLProgram?): Unit\r\n fun validateProgram(program: WebGLProgram?): Unit\r\n fun vertexAttrib1f(index: Int, x: Float): Unit\r\n fun vertexAttrib1fv(index: Int, values: dynamic): Unit\r\n fun vertexAttrib2f(index: Int, x: Float, y: Float): Unit\r\n fun vertexAttrib2fv(index: Int, values: dynamic): Unit\r\n fun vertexAttrib3f(index: Int, x: Float, y: Float, z: Float): Unit\r\n fun vertexAttrib3fv(index: Int, values: dynamic): Unit\r\n fun vertexAttrib4f(index: Int, x: Float, y: Float, z: Float, w: Float): Unit\r\n fun vertexAttrib4fv(index: Int, values: dynamic): Unit\r\n fun vertexAttribPointer(index: Int, size: Int, type: Int, normalized: Boolean, stride: Int, offset: Int): Unit\r\n fun viewport(x: Int, y: Int, width: Int, height: Int): Unit\r\n\r\n companion object {\r\n val DEPTH_BUFFER_BIT: Int\r\n val STENCIL_BUFFER_BIT: Int\r\n val COLOR_BUFFER_BIT: Int\r\n val POINTS: Int\r\n val LINES: Int\r\n val LINE_LOOP: Int\r\n val LINE_STRIP: Int\r\n val TRIANGLES: Int\r\n val TRIANGLE_STRIP: Int\r\n val TRIANGLE_FAN: Int\r\n val ZERO: Int\r\n val ONE: Int\r\n val SRC_COLOR: Int\r\n val ONE_MINUS_SRC_COLOR: Int\r\n val SRC_ALPHA: Int\r\n val ONE_MINUS_SRC_ALPHA: Int\r\n val DST_ALPHA: Int\r\n val ONE_MINUS_DST_ALPHA: Int\r\n val DST_COLOR: Int\r\n val ONE_MINUS_DST_COLOR: Int\r\n val SRC_ALPHA_SATURATE: Int\r\n val FUNC_ADD: Int\r\n val BLEND_EQUATION: Int\r\n val BLEND_EQUATION_RGB: Int\r\n val BLEND_EQUATION_ALPHA: Int\r\n val FUNC_SUBTRACT: Int\r\n val FUNC_REVERSE_SUBTRACT: Int\r\n val BLEND_DST_RGB: Int\r\n val BLEND_SRC_RGB: Int\r\n val BLEND_DST_ALPHA: Int\r\n val BLEND_SRC_ALPHA: Int\r\n val CONSTANT_COLOR: Int\r\n val ONE_MINUS_CONSTANT_COLOR: Int\r\n val CONSTANT_ALPHA: Int\r\n val ONE_MINUS_CONSTANT_ALPHA: Int\r\n val BLEND_COLOR: Int\r\n val ARRAY_BUFFER: Int\r\n val ELEMENT_ARRAY_BUFFER: Int\r\n val ARRAY_BUFFER_BINDING: Int\r\n val ELEMENT_ARRAY_BUFFER_BINDING: Int\r\n val STREAM_DRAW: Int\r\n val STATIC_DRAW: Int\r\n val DYNAMIC_DRAW: Int\r\n val BUFFER_SIZE: Int\r\n val BUFFER_USAGE: Int\r\n val CURRENT_VERTEX_ATTRIB: Int\r\n val FRONT: Int\r\n val BACK: Int\r\n val FRONT_AND_BACK: Int\r\n val CULL_FACE: Int\r\n val BLEND: Int\r\n val DITHER: Int\r\n val STENCIL_TEST: Int\r\n val DEPTH_TEST: Int\r\n val SCISSOR_TEST: Int\r\n val POLYGON_OFFSET_FILL: Int\r\n val SAMPLE_ALPHA_TO_COVERAGE: Int\r\n val SAMPLE_COVERAGE: Int\r\n val NO_ERROR: Int\r\n val INVALID_ENUM: Int\r\n val INVALID_VALUE: Int\r\n val INVALID_OPERATION: Int\r\n val OUT_OF_MEMORY: Int\r\n val CW: Int\r\n val CCW: Int\r\n val LINE_WIDTH: Int\r\n val ALIASED_POINT_SIZE_RANGE: Int\r\n val ALIASED_LINE_WIDTH_RANGE: Int\r\n val CULL_FACE_MODE: Int\r\n val FRONT_FACE: Int\r\n val DEPTH_RANGE: Int\r\n val DEPTH_WRITEMASK: Int\r\n val DEPTH_CLEAR_VALUE: Int\r\n val DEPTH_FUNC: Int\r\n val STENCIL_CLEAR_VALUE: Int\r\n val STENCIL_FUNC: Int\r\n val STENCIL_FAIL: Int\r\n val STENCIL_PASS_DEPTH_FAIL: Int\r\n val STENCIL_PASS_DEPTH_PASS: Int\r\n val STENCIL_REF: Int\r\n val STENCIL_VALUE_MASK: Int\r\n val STENCIL_WRITEMASK: Int\r\n val STENCIL_BACK_FUNC: Int\r\n val STENCIL_BACK_FAIL: Int\r\n val STENCIL_BACK_PASS_DEPTH_FAIL: Int\r\n val STENCIL_BACK_PASS_DEPTH_PASS: Int\r\n val STENCIL_BACK_REF: Int\r\n val STENCIL_BACK_VALUE_MASK: Int\r\n val STENCIL_BACK_WRITEMASK: Int\r\n val VIEWPORT: Int\r\n val SCISSOR_BOX: Int\r\n val COLOR_CLEAR_VALUE: Int\r\n val

COLOR_WRITEMASK: Int\r\n val UNPACK_ALIGNMENT: Int\r\n val PACK_ALIGNMENT: Int\r\n val MAX_TEXTURE_SIZE: Int\r\n val MAX_VIEWPORT_DIMS: Int\r\n val SUBPIXEL_BITS: Int\r\n val RED_BITS: Int\r\n val GREEN_BITS: Int\r\n val BLUE_BITS: Int\r\n val ALPHA_BITS: Int\r\n val DEPTH_BITS: Int\r\n val STENCIL_BITS: Int\r\n val POLYGON_OFFSET_UNITS: Int\r\n val POLYGON_OFFSET_FACTOR: Int\r\n val TEXTURE_BINDING_2D: Int\r\n val SAMPLE_BUFFERS: Int\r\n val SAMPLES: Int\r\n val SAMPLE_COVERAGE_VALUE: Int\r\n val SAMPLE_COVERAGE_INVERT: Int\r\n val COMPRESSED_TEXTURE_FORMATS: Int\r\n val DONT_CARE: Int\r\n val FASTEST: Int\r\n val NICEST: Int\r\n val GENERATE_MIPMAP_HINT: Int\r\n val BYTE: Int\r\n val UNSIGNED_BYTE: Int\r\n val SHORT: Int\r\n val UNSIGNED_SHORT: Int\r\n val INT: Int\r\n val UNSIGNED_INT: Int\r\n val FLOAT: Int\r\n val DEPTH_COMPONENT: Int\r\n val ALPHA: Int\r\n val RGB: Int\r\n val RGBA: Int\r\n val LUMINANCE: Int\r\n val LUMINANCE_ALPHA: Int\r\n val UNSIGNED_SHORT_4_4_4_4: Int\r\n val UNSIGNED_SHORT_5_5_5_1: Int\r\n val UNSIGNED_SHORT_5_6_5: Int\r\n val FRAGMENT_SHADER: Int\r\n val VERTEX_SHADER: Int\r\n val MAX_VERTEX_ATTRIBS: Int\r\n val MAX_VERTEX_UNIFORM_VECTORS: Int\r\n val MAX_VARYING_VECTORS: Int\r\n val MAX_COMBINED_TEXTURE_IMAGE_UNITS: Int\r\n val MAX_VERTEX_TEXTURE_IMAGE_UNITS: Int\r\n val MAX_TEXTURE_IMAGE_UNITS: Int\r\n val MAX_FRAGMENT_UNIFORM_VECTORS: Int\r\n val SHADER_TYPE: Int\r\n val DELETE_STATUS: Int\r\n val LINK_STATUS: Int\r\n val VALIDATE_STATUS: Int\r\n val ATTACHED_SHADERS: Int\r\n val ACTIVE_UNIFORMS: Int\r\n val ACTIVE_ATTRIBUTES: Int\r\n val SHADING_LANGUAGE_VERSION: Int\r\n val CURRENT_PROGRAM: Int\r\n val NEVER: Int\r\n val LESS: Int\r\n val EQUAL: Int\r\n val LEQUAL: Int\r\n val GREATER: Int\r\n val NOTEQUAL: Int\r\n val GEQUAL: Int\r\n val ALWAYS: Int\r\n val KEEP: Int\r\n val REPLACE: Int\r\n val INCR: Int\r\n val DECR: Int\r\n val INVERT: Int\r\n val INCR_WRAP: Int\r\n val DECR_WRAP: Int\r\n val VENDOR: Int\r\n val RENDERER: Int\r\n val VERSION: Int\r\n val NEAREST: Int\r\n val LINEAR: Int\r\n val NEAREST_MIPMAP_NEAREST: Int\r\n val LINEAR_MIPMAP_NEAREST: Int\r\n val NEAREST_MIPMAP_LINEAR: Int\r\n val LINEAR_MIPMAP_LINEAR: Int\r\n val TEXTURE_MAG_FILTER: Int\r\n val TEXTURE_MIN_FILTER: Int\r\n val TEXTURE_WRAP_S: Int\r\n val TEXTURE_WRAP_T: Int\r\n val TEXTURE_2D: Int\r\n val TEXTURE: Int\r\n val TEXTURE_CUBE_MAP: Int\r\n val TEXTURE_BINDING_CUBE_MAP: Int\r\n val TEXTURE_CUBE_MAP_POSITIVE_X: Int\r\n val TEXTURE_CUBE_MAP_NEGATIVE_X: Int\r\n val TEXTURE_CUBE_MAP_POSITIVE_Y: Int\r\n val TEXTURE_CUBE_MAP_NEGATIVE_Y: Int\r\n val TEXTURE_CUBE_MAP_POSITIVE_Z: Int\r\n val TEXTURE_CUBE_MAP_NEGATIVE_Z: Int\r\n val MAX_CUBE_MAP_TEXTURE_SIZE: Int\r\n val TEXTURE0: Int\r\n val TEXTURE1: Int\r\n val TEXTURE2: Int\r\n val TEXTURE3: Int\r\n val TEXTURE4: Int\r\n val TEXTURE5: Int\r\n val TEXTURE6: Int\r\n val TEXTURE7: Int\r\n val TEXTURE8: Int\r\n val TEXTURE9: Int\r\n val TEXTURE10: Int\r\n val TEXTURE11: Int\r\n val TEXTURE12: Int\r\n val TEXTURE13: Int\r\n val TEXTURE14: Int\r\n val TEXTURE15: Int\r\n val TEXTURE16: Int\r\n val TEXTURE17: Int\r\n val TEXTURE18: Int\r\n val TEXTURE19: Int\r\n val TEXTURE20: Int\r\n val TEXTURE21: Int\r\n val TEXTURE22: Int\r\n val TEXTURE23: Int\r\n val TEXTURE24: Int\r\n val TEXTURE25: Int\r\n val TEXTURE26: Int\r\n val TEXTURE27: Int\r\n val TEXTURE28: Int\r\n val TEXTURE29: Int\r\n val TEXTURE30: Int\r\n val TEXTURE31: Int\r\n val ACTIVE_TEXTURE: Int\r\n val REPEAT: Int\r\n val CLAMP_TO_EDGE: Int\r\n val MIRRORED_REPEAT: Int\r\n val FLOAT_VEC2: Int\r\n val FLOAT_VEC3: Int\r\n val FLOAT_VEC4: Int\r\n val INT_VEC2: Int\r\n val INT_VEC3: Int\r\n val INT_VEC4: Int\r\n val BOOL: Int\r\n val BOOL_VEC2: Int\r\n val BOOL_VEC3: Int\r\n val BOOL_VEC4: Int\r\n val FLOAT_MAT2: Int\r\n val FLOAT_MAT3: Int\r\n val FLOAT_MAT4: Int\r\n val SAMPLER_2D: Int\r\n val SAMPLER_CUBE: Int\r\n val VERTEX_ATTRIB_ARRAY_ENABLED: Int\r\n val VERTEX_ATTRIB_ARRAY_SIZE: Int\r\n val

VERTEX_ATTRIB_ARRAY_STRIDE: Int\r\n val VERTEX_ATTRIB_ARRAY_TYPE: Int\r\n val VERTEX_ATTRIB_ARRAY_NORMALIZED: Int\r\n val VERTEX_ATTRIB_ARRAY_POINTER: Int\r\n val VERTEX_ATTRIB_ARRAY_BUFFER_BINDING: Int\r\n val IMPLEMENTATION_COLOR_READ_TYPE: Int\r\n val IMPLEMENTATION_COLOR_READ_FORMAT: Int\r\n val COMPILE_STATUS: Int\r\n val LOW_FLOAT: Int\r\n val MEDIUM_FLOAT: Int\r\n val HIGH_FLOAT: Int\r\n val LOW_INT: Int\r\n val MEDIUM_INT: Int\r\n val HIGH_INT: Int\r\n val FRAMEBUFFER: Int\r\n val RENDERBUFFER: Int\r\n val RGBA4: Int\r\n val RGB5_A1: Int\r\n val RGB565: Int\r\n val DEPTH_COMPONENT16: Int\r\n val STENCIL_INDEX: Int\r\n val STENCIL_INDEX8: Int\r\n val DEPTH_STENCIL: Int\r\n val RENDERBUFFER_WIDTH: Int\r\n val RENDERBUFFER_HEIGHT: Int\r\n val RENDERBUFFER_INTERNAL_FORMAT: Int\r\n val RENDERBUFFER_RED_SIZE: Int\r\n val RENDERBUFFER_GREEN_SIZE: Int\r\n val RENDERBUFFER_BLUE_SIZE: Int\r\n val RENDERBUFFER_ALPHA_SIZE: Int\r\n val RENDERBUFFER_DEPTH_SIZE: Int\r\n val RENDERBUFFER_STENCIL_SIZE: Int\r\n val FRAMEBUFFER_ATTACHMENT_OBJECT_TYPE: Int\r\n val FRAMEBUFFER_ATTACHMENT_OBJECT_NAME: Int\r\n val FRAMEBUFFER_ATTACHMENT_TEXTURE_LEVEL: Int\r\n val FRAMEBUFFER_ATTACHMENT_TEXTURE_CUBE_MAP_FACE: Int\r\n val COLOR_ATTACHMENT0: Int\r\n val DEPTH_ATTACHMENT: Int\r\n val STENCIL_ATTACHMENT: Int\r\n val DEPTH_STENCIL_ATTACHMENT: Int\r\n val NONE: Int\r\n val FRAMEBUFFER_COMPLETE: Int\r\n val FRAMEBUFFER_INCOMPLETE_ATTACHMENT: Int\r\n val FRAMEBUFFER_INCOMPLETE_MISSING_ATTACHMENT: Int\r\n val FRAMEBUFFER_INCOMPLETE_DIMENSIONS: Int\r\n val FRAMEBUFFER_UNSUPPORTED: Int\r\n val FRAMEBUFFER_BINDING: Int\r\n val RENDERBUFFER_BINDING: Int\r\n val MAX_RENDERBUFFER_SIZE: Int\r\n val INVALID_FRAMEBUFFER_OPERATION: Int\r\n val UNPACK_FLIP_Y_WEBGL: Int\r\n val UNPACK_PREMULTIPLY_ALPHA_WEBGL: Int\r\n val CONTEXT_LOST_WEBGL: Int\r\n val UNPACK_COLORSPACE_CONVERSION_WEBGL: Int\r\n val BROWSER_DEFAULT_WEBGL: Int\r\n }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [WebGLRenderingContext](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderingContext) to Kotlin\r\n */\r\npublic external abstract class WebGLRenderingContext : WebGLRenderingContextBase, RenderingContext {\r\n\r\n companion object {\r\n val DEPTH_BUFFER_BIT: Int\r\n val STENCIL_BUFFER_BIT: Int\r\n val COLOR_BUFFER_BIT: Int\r\n val POINTS: Int\r\n val LINES: Int\r\n val LINE_LOOP: Int\r\n val LINE_STRIP: Int\r\n val TRIANGLES: Int\r\n val TRIANGLE_STRIP: Int\r\n val TRIANGLE_FAN: Int\r\n val ZERO: Int\r\n val ONE: Int\r\n val SRC_COLOR: Int\r\n val ONE_MINUS_SRC_COLOR: Int\r\n val SRC_ALPHA: Int\r\n val ONE_MINUS_SRC_ALPHA: Int\r\n val DST_ALPHA: Int\r\n val ONE_MINUS_DST_ALPHA: Int\r\n val DST_COLOR: Int\r\n val ONE_MINUS_DST_COLOR: Int\r\n val SRC_ALPHA_SATURATE: Int\r\n val FUNC_ADD: Int\r\n val BLEND_EQUATION: Int\r\n val BLEND_EQUATION_RGB: Int\r\n val BLEND_EQUATION_ALPHA: Int\r\n val FUNC_SUBTRACT: Int\r\n val FUNC_REVERSE_SUBTRACT: Int\r\n val BLEND_DST_RGB: Int\r\n val BLEND_SRC_RGB: Int\r\n val BLEND_DST_ALPHA: Int\r\n val BLEND_SRC_ALPHA: Int\r\n val CONSTANT_COLOR: Int\r\n val ONE_MINUS_CONSTANT_COLOR: Int\r\n val CONSTANT_ALPHA: Int\r\n val ONE_MINUS_CONSTANT_ALPHA: Int\r\n val BLEND_COLOR: Int\r\n val ARRAY_BUFFER: Int\r\n val ELEMENT_ARRAY_BUFFER: Int\r\n val ARRAY_BUFFER_BINDING: Int\r\n val ELEMENT_ARRAY_BUFFER_BINDING: Int\r\n val STREAM_DRAW: Int\r\n val STATIC_DRAW: Int\r\n val DYNAMIC_DRAW: Int\r\n val BUFFER_SIZE: Int\r\n val BUFFER_USAGE: Int\r\n val CURRENT_VERTEX_ATTRIB: Int\r\n val FRONT: Int\r\n val BACK: Int\r\n val FRONT_AND_BACK: Int\r\n val CULL_FACE: Int\r\n val BLEND: Int\r\n val DITHER: Int\r\n val STENCIL_TEST: Int\r\n val DEPTH_TEST: Int\r\n val SCISSOR_TEST: Int\r\n val

POLYGON_OFFSET_FILL: Int\r\n val SAMPLE_ALPHA_TO_COVERAGE: Int\r\n val SAMPLE_COVERAGE: Int\r\n val NO_ERROR: Int\r\n val INVALID_ENUM: Int\r\n val INVALID_VALUE: Int\r\n val INVALID_OPERATION: Int\r\n val OUT_OF_MEMORY: Int\r\n val CW: Int\r\n val CCW: Int\r\n val LINE_WIDTH: Int\r\n val ALIASED_POINT_SIZE_RANGE: Int\r\n val ALIASED_LINE_WIDTH_RANGE: Int\r\n val CULL_FACE_MODE: Int\r\n val FRONT_FACE: Int\r\n val DEPTH_RANGE: Int\r\n val DEPTH_WRITEMASK: Int\r\n val DEPTH_CLEAR_VALUE: Int\r\n val DEPTH_FUNC: Int\r\n val STENCIL_CLEAR_VALUE: Int\r\n val STENCIL_FUNC: Int\r\n val STENCIL_FAIL: Int\r\n val STENCIL_PASS_DEPTH_FAIL: Int\r\n val STENCIL_PASS_DEPTH_PASS: Int\r\n val STENCIL_REF: Int\r\n val STENCIL_VALUE_MASK: Int\r\n val STENCIL_WRITEMASK: Int\r\n val STENCIL_BACK_FUNC: Int\r\n val STENCIL_BACK_FAIL: Int\r\n val STENCIL_BACK_PASS_DEPTH_FAIL: Int\r\n val STENCIL_BACK_PASS_DEPTH_PASS: Int\r\n val STENCIL_BACK_REF: Int\r\n val STENCIL_BACK_VALUE_MASK: Int\r\n val STENCIL_BACK_WRITEMASK: Int\r\n val VIEWPORT: Int\r\n val SCISSOR_BOX: Int\r\n val COLOR_CLEAR_VALUE: Int\r\n val COLOR_WRITEMASK: Int\r\n val UNPACK_ALIGNMENT: Int\r\n val PACK_ALIGNMENT: Int\r\n val MAX_TEXTURE_SIZE: Int\r\n val MAX_VIEWPORT_DIMS: Int\r\n val SUBPIXEL_BITS: Int\r\n val RED_BITS: Int\r\n val GREEN_BITS: Int\r\n val BLUE_BITS: Int\r\n val ALPHA_BITS: Int\r\n val DEPTH_BITS: Int\r\n val STENCIL_BITS: Int\r\n val POLYGON_OFFSET_UNITS: Int\r\n val POLYGON_OFFSET_FACTOR: Int\r\n val TEXTURE_BINDING_2D: Int\r\n val SAMPLE_BUFFERS: Int\r\n val SAMPLES: Int\r\n val SAMPLE_COVERAGE_VALUE: Int\r\n val SAMPLE_COVERAGE_INVERT: Int\r\n val COMPRESSED_TEXTURE_FORMATS: Int\r\n val DONT_CARE: Int\r\n val FASTEST: Int\r\n val NICEST: Int\r\n val GENERATE_MIPMAP_HINT: Int\r\n val BYTE: Int\r\n val UNSIGNED_BYTE: Int\r\n val SHORT: Int\r\n val UNSIGNED_SHORT: Int\r\n val INT: Int\r\n val UNSIGNED_INT: Int\r\n val FLOAT: Int\r\n val DEPTH_COMPONENT: Int\r\n val ALPHA: Int\r\n val RGB: Int\r\n val RGBA: Int\r\n val LUMINANCE: Int\r\n val LUMINANCE_ALPHA: Int\r\n val UNSIGNED_SHORT_4_4_4_4: Int\r\n val UNSIGNED_SHORT_5_5_5_1: Int\r\n val UNSIGNED_SHORT_5_6_5: Int\r\n val FRAGMENT_SHADER: Int\r\n val VERTEX_SHADER: Int\r\n val MAX_VERTEX_ATTRIBS: Int\r\n val MAX_VERTEX_UNIFORM_VECTORS: Int\r\n val MAX_VARYING_VECTORS: Int\r\n val MAX_COMBINED_TEXTURE_IMAGE_UNITS: Int\r\n val MAX_VERTEX_TEXTURE_IMAGE_UNITS: Int\r\n val MAX_TEXTURE_IMAGE_UNITS: Int\r\n val MAX_FRAGMENT_UNIFORM_VECTORS: Int\r\n val SHADER_TYPE: Int\r\n val DELETE_STATUS: Int\r\n val LINK_STATUS: Int\r\n val VALIDATE_STATUS: Int\r\n val ATTACHED_SHADERS: Int\r\n val ACTIVE_UNIFORMS: Int\r\n val ACTIVE_ATTRIBUTES: Int\r\n val SHADING_LANGUAGE_VERSION: Int\r\n val CURRENT_PROGRAM: Int\r\n val NEVER: Int\r\n val LESS: Int\r\n val EQUAL: Int\r\n val LEQUAL: Int\r\n val GREATER: Int\r\n val NOTEQUAL: Int\r\n val GEQUAL: Int\r\n val ALWAYS: Int\r\n val KEEP: Int\r\n val REPLACE: Int\r\n val INCR: Int\r\n val DECR: Int\r\n val INVERT: Int\r\n val INCR_WRAP: Int\r\n val DECR_WRAP: Int\r\n val VENDOR: Int\r\n val RENDERER: Int\r\n val VERSION: Int\r\n val NEAREST: Int\r\n val LINEAR: Int\r\n val NEAREST_MIPMAP_NEAREST: Int\r\n val LINEAR_MIPMAP_NEAREST: Int\r\n val NEAREST_MIPMAP_LINEAR: Int\r\n val LINEAR_MIPMAP_LINEAR: Int\r\n val TEXTURE_MAG_FILTER: Int\r\n val TEXTURE_MIN_FILTER: Int\r\n val TEXTURE_WRAP_S: Int\r\n val TEXTURE_WRAP_T: Int\r\n val TEXTURE_2D: Int\r\n val TEXTURE: Int\r\n val TEXTURE_CUBE_MAP: Int\r\n val TEXTURE_BINDING_CUBE_MAP: Int\r\n val TEXTURE_CUBE_MAP_POSITIVE_X: Int\r\n val TEXTURE_CUBE_MAP_NEGATIVE_X: Int\r\n val TEXTURE_CUBE_MAP_POSITIVE_Y: Int\r\n val TEXTURE_CUBE_MAP_NEGATIVE_Y: Int\r\n val TEXTURE_CUBE_MAP_POSITIVE_Z: Int\r\n val TEXTURE_CUBE_MAP_NEGATIVE_Z: Int\r\n val MAX_CUBE_MAP_TEXTURE_SIZE: Int\r\n val TEXTURE0: Int\r\n val TEXTURE1: Int\r\n val

TEXTURE2: Int\r\n val TEXTURE3: Int\r\n val TEXTURE4: Int\r\n val TEXTURE5: Int\r\n val TEXTURE6: Int\r\n val TEXTURE7: Int\r\n val TEXTURE8: Int\r\n val TEXTURE9: Int\r\n val TEXTURE10: Int\r\n val TEXTURE11: Int\r\n val TEXTURE12: Int\r\n val TEXTURE13: Int\r\n val TEXTURE14: Int\r\n val TEXTURE15: Int\r\n val TEXTURE16: Int\r\n val TEXTURE17: Int\r\n val TEXTURE18: Int\r\n val TEXTURE19: Int\r\n val TEXTURE20: Int\r\n val TEXTURE21: Int\r\n val TEXTURE22: Int\r\n val TEXTURE23: Int\r\n val TEXTURE24: Int\r\n val TEXTURE25: Int\r\n val TEXTURE26: Int\r\n val TEXTURE27: Int\r\n val TEXTURE28: Int\r\n val TEXTURE29: Int\r\n val TEXTURE30: Int\r\n val TEXTURE31: Int\r\n val ACTIVE_TEXTURE: Int\r\n val REPEAT: Int\r\n val CLAMP_TO_EDGE: Int\r\n val MIRRORED_REPEAT: Int\r\n val FLOAT_VEC2: Int\r\n val FLOAT_VEC3: Int\r\n val FLOAT_VEC4: Int\r\n val INT_VEC2: Int\r\n val INT_VEC3: Int\r\n val INT_VEC4: Int\r\n val BOOL: Int\r\n val BOOL_VEC2: Int\r\n val BOOL_VEC3: Int\r\n val BOOL_VEC4: Int\r\n val FLOAT_MAT2: Int\r\n val FLOAT_MAT3: Int\r\n val FLOAT_MAT4: Int\r\n val SAMPLER_2D: Int\r\n val SAMPLER_CUBE: Int\r\n val VERTEX_ATTRIB_ARRAY_ENABLED: Int\r\n val VERTEX_ATTRIB_ARRAY_SIZE: Int\r\n val VERTEX_ATTRIB_ARRAY_STRIDE: Int\r\n val VERTEX_ATTRIB_ARRAY_TYPE: Int\r\n val VERTEX_ATTRIB_ARRAY_NORMALIZED: Int\r\n val VERTEX_ATTRIB_ARRAY_POINTER: Int\r\n val VERTEX_ATTRIB_ARRAY_BUFFER_BINDING: Int\r\n val IMPLEMENTATION_COLOR_READ_TYPE: Int\r\n val IMPLEMENTATION_COLOR_READ_FORMAT: Int\r\n val COMPILE_STATUS: Int\r\n val LOW_FLOAT: Int\r\n val MEDIUM_FLOAT: Int\r\n val HIGH_FLOAT: Int\r\n val LOW_INT: Int\r\n val MEDIUM_INT: Int\r\n val HIGH_INT: Int\r\n val FRAMEBUFFER: Int\r\n val RENDERBUFFER: Int\r\n val RGBA4: Int\r\n val RGB5_A1: Int\r\n val RGB565: Int\r\n val DEPTH_COMPONENT16: Int\r\n val STENCIL_INDEX: Int\r\n val STENCIL_INDEX8: Int\r\n val DEPTH_STENCIL: Int\r\n val RENDERBUFFER_WIDTH: Int\r\n val RENDERBUFFER_HEIGHT: Int\r\n val RENDERBUFFER_INTERNAL_FORMAT: Int\r\n val RENDERBUFFER_RED_SIZE: Int\r\n val RENDERBUFFER_GREEN_SIZE: Int\r\n val RENDERBUFFER_BLUE_SIZE: Int\r\n val RENDERBUFFER_ALPHA_SIZE: Int\r\n val RENDERBUFFER_DEPTH_SIZE: Int\r\n val RENDERBUFFER_STENCIL_SIZE: Int\r\n val FRAMEBUFFER_ATTACHMENT_OBJECT_TYPE: Int\r\n val FRAMEBUFFER_ATTACHMENT_OBJECT_NAME: Int\r\n val FRAMEBUFFER_ATTACHMENT_TEXTURE_LEVEL: Int\r\n val FRAMEBUFFER_ATTACHMENT_TEXTURE_CUBE_MAP_FACE: Int\r\n val COLOR_ATTACHMENT0: Int\r\n val DEPTH_ATTACHMENT: Int\r\n val STENCIL_ATTACHMENT: Int\r\n val DEPTH_STENCIL_ATTACHMENT: Int\r\n val NONE: Int\r\n val FRAMEBUFFER_COMPLETE: Int\r\n val FRAMEBUFFER_INCOMPLETE_ATTACHMENT: Int\r\n val FRAMEBUFFER_INCOMPLETE_MISSING_ATTACHMENT: Int\r\n val FRAMEBUFFER_INCOMPLETE_DIMENSIONS: Int\r\n val FRAMEBUFFER_UNSUPPORTED: Int\r\n val FRAMEBUFFER_BINDING: Int\r\n val RENDERBUFFER_BINDING: Int\r\n val MAX_RENDERBUFFER_SIZE: Int\r\n val INVALID_FRAMEBUFFER_OPERATION: Int\r\n val UNPACK_FLIP_Y_WEBGL: Int\r\n val UNPACK_PREMULTIPLY_ALPHA_WEBGL: Int\r\n val CONTEXT_LOST_WEBGL: Int\r\n val UNPACK_COLORSPACE_CONVERSION_WEBGL: Int\r\n val BROWSER_DEFAULT_WEBGL: Int\r\n }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [WebGLContextEvent](https://developer.mozilla.org/en/docs/Web/API/WebGLContextEvent) to Kotlin\r\n */\r\npublic external open class WebGLContextEvent(type: String, eventInit: WebGLContextEventInit = definedExternally) : Event {\r\n open val statusMessage: String\r\n}\r\n\r\n\r\npublic external interface WebGLContextEventInit : EventInit {\r\n var statusMessage: String? /* = \"\" */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun WebGLContextEventInit(statusMessage: String? = \"\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): WebGLContextEventInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"statusMessage\"] =

statusMessage\r\n   o[\"bubbles\"] = bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ArrayBuffer](https://developer.mozilla.org/en/docs/Web/API/ArrayBuffer) to Kotlin\r\n */\r\npublic external open class ArrayBuffer(length: Int) : BufferDataSource {\r\n   open val byteLength: Int\r\n   fun slice(begin: Int, end: Int = definedExternally): ArrayBuffer\r\n\r\n   companion object {\r\n   fun isView(value: Any?): Boolean\r\n   }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ArrayBufferView](https://developer.mozilla.org/en/docs/Web/API/ArrayBufferView) to Kotlin\r\n */\r\npublic external interface ArrayBufferView : BufferDataSource {\r\n   val buffer: ArrayBuffer\r\n   val byteOffset: Int\r\n   val byteLength: Int\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Int8Array](https://developer.mozilla.org/en/docs/Web/API/Int8Array) to Kotlin\r\n */\r\npublic external open class Int8Array : ArrayBufferView {\r\n   constructor(length: Int)\r\n   constructor(array: Int8Array)\r\n   constructor(array: Array<Byte>)\r\n   constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\r\n   open val length: Int\r\n   override val buffer: ArrayBuffer\r\n   override val byteOffset: Int\r\n   override val byteLength: Int\r\n   fun set(array: Int8Array, offset: Int = definedExternally): Unit\r\n   fun set(array: Array<Byte>, offset: Int = definedExternally): Unit\r\n   fun subarray(start: Int, end: Int): Int8Array\r\n\r\n   companion object {\r\n   val BYTES_PER_ELEMENT: Int\r\n   }\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun Int8Array.get(index: Int): Byte = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun Int8Array.set(index: Int, value: Byte): Unit { asDynamic()[index] = value; }\r\n\r\n/**\r\n * Exposes the JavaScript [Uint8Array](https://developer.mozilla.org/en/docs/Web/API/Uint8Array) to Kotlin\r\n */\r\npublic external open class Uint8Array : ArrayBufferView {\r\n   constructor(length: Int)\r\n   constructor(array: Uint8Array)\r\n   constructor(array: Array<Byte>)\r\n   constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\r\n   open val length: Int\r\n   override val buffer: ArrayBuffer\r\n   override val byteOffset: Int\r\n   override val byteLength: Int\r\n   fun set(array: Uint8Array, offset: Int = definedExternally): Unit\r\n   fun set(array: Array<Byte>, offset: Int = definedExternally): Unit\r\n   fun subarray(start: Int, end: Int): Uint8Array\r\n\r\n   companion object {\r\n   val BYTES_PER_ELEMENT: Int\r\n   }\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun Uint8Array.get(index: Int): Byte = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun Uint8Array.set(index: Int, value: Byte): Unit { asDynamic()[index] = value; }\r\n\r\n/**\r\n * Exposes the JavaScript [Uint8ClampedArray](https://developer.mozilla.org/en/docs/Web/API/Uint8ClampedArray) to Kotlin\r\n */\r\npublic external open class Uint8ClampedArray : ArrayBufferView {\r\n   constructor(length: Int)\r\n   constructor(array: Uint8ClampedArray)\r\n   constructor(array: Array<Byte>)\r\n   constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\r\n   open val length: Int\r\n   override val buffer: ArrayBuffer\r\n   override val byteOffset: Int\r\n   override val byteLength: Int\r\n   fun set(array: Uint8ClampedArray, offset: Int = definedExternally): Unit\r\n   fun set(array: Array<Byte>, offset: Int = definedExternally): Unit\r\n   fun subarray(start: Int, end: Int): Uint8ClampedArray\r\n\r\n   companion object {\r\n   val BYTES_PER_ELEMENT: Int\r\n   }\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun Uint8ClampedArray.get(index: Int): Byte = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun Uint8ClampedArray.set(index: Int, value: Byte): Unit { asDynamic()[index] = value; }\r\n\r\n/**\r\n * Exposes the JavaScript [Int16Array](https://developer.mozilla.org/en/docs/Web/API/Int16Array) to Kotlin\r\n */\r\npublic external open class Int16Array : ArrayBufferView {\r\n   constructor(length: Int)\r\n   constructor(array: Int16Array)\r\n   constructor(array: Array<Short>)\r\n   constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\r\n   open val length: Int\r\n   override val buffer: ArrayBuffer\r\n   override val byteOffset: Int\r\n   override val byteLength: Int\r\n   fun set(array: Int16Array, offset: Int = definedExternally): Unit\r\n   fun set(array: Array<Short>, offset: Int = definedExternally): Unit\r\n   fun subarray(start: Int, end: Int): Int16Array\r\n\r\n   companion object {\r\n   val BYTES_PER_ELEMENT: Int\r\n   }\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun Int16Array.get(index: Int): Short = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun Int16Array.set(index: Int, value: Short): Unit

{ asDynamic()[index] = value; }\r\n\r\n/**\r\n * Exposes the JavaScript [Uint16Array](https://developer.mozilla.org/en/docs/Web/API/Uint16Array) to Kotlin\r\n */\r\npublic external open class Uint16Array : ArrayBufferView {\r\n constructor(length: Int)\r\n constructor(array: Uint16Array)\r\n constructor(array: Array<Short>)\r\n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\r\n open val length: Int\r\n override val buffer: ArrayBuffer\r\n override val byteOffset: Int\r\n override val byteLength: Int\r\n fun set(array: Uint16Array, offset: Int = definedExternally): Unit\r\n fun set(array: Array<Short>, offset: Int = definedExternally): Unit\r\n fun subarray(start: Int, end: Int): Uint16Array\r\n\r\n companion object {\r\n val BYTES_PER_ELEMENT: Int\r\n }\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun Uint16Array.get(index: Int): Short = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun Uint16Array.set(index: Int, value: Short): Unit { asDynamic()[index] = value; }\r\n\r\n/**\r\n * Exposes the JavaScript [Int32Array](https://developer.mozilla.org/en/docs/Web/API/Int32Array) to Kotlin\r\n */\r\npublic external open class Int32Array : ArrayBufferView {\r\n constructor(length: Int)\r\n constructor(array: Int32Array)\r\n constructor(array: Array<Int>)\r\n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\r\n open val length: Int\r\n override val buffer: ArrayBuffer\r\n override val byteOffset: Int\r\n override val byteLength: Int\r\n fun set(array: Int32Array, offset: Int = definedExternally): Unit\r\n fun set(array: Array<Int>, offset: Int = definedExternally): Unit\r\n fun subarray(start: Int, end: Int): Int32Array\r\n\r\n companion object {\r\n val BYTES_PER_ELEMENT: Int\r\n }\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun Int32Array.get(index: Int): Int = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun Int32Array.set(index: Int, value: Int): Unit { asDynamic()[index] = value; }\r\n\r\n/**\r\n * Exposes the JavaScript [Uint32Array](https://developer.mozilla.org/en/docs/Web/API/Uint32Array) to Kotlin\r\n */\r\npublic external open class Uint32Array : ArrayBufferView {\r\n constructor(length: Int)\r\n constructor(array: Uint32Array)\r\n constructor(array: Array<Int>)\r\n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\r\n open val length: Int\r\n override val buffer: ArrayBuffer\r\n override val byteOffset: Int\r\n override val byteLength: Int\r\n fun set(array: Uint32Array, offset: Int = definedExternally): Unit\r\n fun set(array: Array<Int>, offset: Int = definedExternally): Unit\r\n fun subarray(start: Int, end: Int): Uint32Array\r\n\r\n companion object {\r\n val BYTES_PER_ELEMENT: Int\r\n }\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun Uint32Array.get(index: Int): Int = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun Uint32Array.set(index: Int, value: Int): Unit { asDynamic()[index] = value; }\r\n\r\n/**\r\n * Exposes the JavaScript [Float32Array](https://developer.mozilla.org/en/docs/Web/API/Float32Array) to Kotlin\r\n */\r\npublic external open class Float32Array : ArrayBufferView {\r\n constructor(length: Int)\r\n constructor(array: Float32Array)\r\n constructor(array: Array<Float>)\r\n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\r\n open val length: Int\r\n override val buffer: ArrayBuffer\r\n override val byteOffset: Int\r\n override val byteLength: Int\r\n fun set(array: Float32Array, offset: Int = definedExternally): Unit\r\n fun set(array: Array<Float>, offset: Int = definedExternally): Unit\r\n fun subarray(start: Int, end: Int): Float32Array\r\n\r\n companion object {\r\n val BYTES_PER_ELEMENT: Int\r\n }\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun Float32Array.get(index: Int): Float = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun Float32Array.set(index: Int, value: Float): Unit { asDynamic()[index] = value; }\r\n\r\n/**\r\n * Exposes the JavaScript [Float64Array](https://developer.mozilla.org/en/docs/Web/API/Float64Array) to Kotlin\r\n */\r\npublic external open class Float64Array : ArrayBufferView {\r\n constructor(length: Int)\r\n constructor(array: Float64Array)\r\n constructor(array: Array<Double>)\r\n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\r\n open val length: Int\r\n override val buffer: ArrayBuffer\r\n override val byteOffset: Int\r\n override val byteLength: Int\r\n fun set(array: Float64Array, offset: Int = definedExternally): Unit\r\n fun set(array: Array<Double>, offset: Int = definedExternally): Unit\r\n fun subarray(start: Int, end: Int): Float64Array\r\n\r\n companion object {\r\n val BYTES_PER_ELEMENT: Int\r\n }\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun Float64Array.get(index: Int): Double =

asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun Float64Array.set(index: Int, value: Double): Unit { asDynamic()[index] = value; }\r\n\r\n/**\r\n * Exposes the JavaScript [DataView](https://developer.mozilla.org/en/docs/Web/API/DataView) to Kotlin\r\n */\r\npublic external open class DataView(buffer: ArrayBuffer, byteOffset: Int = definedExternally, byteLength: Int = definedExternally) : ArrayBufferView {\r\n   override val buffer: ArrayBuffer\r\n   override val byteOffset: Int\r\n   override val byteLength: Int\r\n   fun getInt8(byteOffset: Int): Byte\r\n   fun getUint8(byteOffset: Int): Byte\r\n   fun getInt16(byteOffset: Int, littleEndian: Boolean = definedExternally): Short\r\n   fun getUint16(byteOffset: Int, littleEndian: Boolean = definedExternally): Short\r\n   fun getInt32(byteOffset: Int, littleEndian: Boolean = definedExternally): Int\r\n   fun getUint32(byteOffset: Int, littleEndian: Boolean = definedExternally): Int\r\n   fun getFloat32(byteOffset: Int, littleEndian: Boolean = definedExternally): Float\r\n   fun getFloat64(byteOffset: Int, littleEndian: Boolean = definedExternally): Double\r\n   fun setInt8(byteOffset: Int, value: Byte): Unit\r\n   fun setUint8(byteOffset: Int, value: Byte): Unit\r\n   fun setInt16(byteOffset: Int, value: Short, littleEndian: Boolean = definedExternally): Unit\r\n   fun setUint16(byteOffset: Int, value: Short, littleEndian: Boolean = definedExternally): Unit\r\n   fun setInt32(byteOffset: Int, value: Int, littleEndian: Boolean = definedExternally): Unit\r\n   fun setUint32(byteOffset: Int, value: Int, littleEndian: Boolean = definedExternally): Unit\r\n   fun setFloat32(byteOffset: Int, value: Float, littleEndian: Boolean = definedExternally): Unit\r\n   fun setFloat64(byteOffset: Int, value: Double, littleEndian: Boolean = definedExternally): Unit\r\n}\r\n\r\npublic external @marker interface BufferDataSource {\r\n}\r\n\r\npublic external @marker interface TexImageSource {\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\r\n// See libraries/tools/idl2k for details\r\n\r\n@file:Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\r\npackage org.w3c.dom.clipboard\r\n\r\nimport kotlin.js.*\r\nimport org.khronos.webgl.*\r\nimport org.w3c.css.masking.*\r\nimport org.w3c.dom.*\r\nimport org.w3c.dom.css.*\r\nimport org.w3c.dom.events.*\r\nimport org.w3c.dom.mediacapture.*\r\nimport org.w3c.dom.parsing.*\r\nimport org.w3c.dom.pointerevents.*\r\nimport org.w3c.dom.svg.*\r\nimport org.w3c.dom.url.*\r\nimport org.w3c.fetch.*\r\nimport org.w3c.files.*\r\nimport org.w3c.notifications.*\r\nimport org.w3c.performance.*\r\nimport org.w3c.workers.*\r\nimport org.w3c.xhr.*\r\n\r\npublic external interface ClipboardEventInit : EventInit {\r\n   var clipboardData: DataTransfer? /* = null */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ClipboardEventInit(clipboardData: DataTransfer? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ClipboardEventInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"clipboardData\"] = clipboardData\r\n   o[\"bubbles\"] = bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ClipboardEvent](https://developer.mozilla.org/en/docs/Web/API/ClipboardEvent) to Kotlin\r\n */\r\npublic external open class ClipboardEvent(type: String, eventInitDict: ClipboardEventInit = definedExternally) : Event {\r\n   open val clipboardData: DataTransfer?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Clipboard](https://developer.mozilla.org/en/docs/Web/API/Clipboard) to Kotlin\r\n */\r\npublic external abstract class Clipboard : EventTarget {\r\n   fun read(): Promise<DataTransfer>\r\n   fun readText(): Promise<String>\r\n   fun write(data: DataTransfer): Promise<Unit>\r\n   fun writeText(data: String): Promise<Unit>\r\n}\r\n\r\npublic external interface ClipboardPermissionDescriptor {\r\n   var allowWithoutGesture: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ClipboardPermissionDescriptor(allowWithoutGesture: Boolean? = false): ClipboardPermissionDescriptor {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"allowWithoutGesture\"] = allowWithoutGesture\r\n\r\n   return o\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\r\n// See libraries/tools/idl2k for details\r\n\r\n@file:Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\r\npackage

org.w3c.dom.css\r\n\r\nimport kotlin.js.*\r\nimport org.khronos.webgl.*\r\nimport org.w3c.css.masking.*\r\nimport org.w3c.dom.*\r\nimport org.w3c.dom.clipboard.*\r\nimport org.w3c.dom.events.*\r\nimport org.w3c.dom.mediacapture.*\r\nimport org.w3c.dom.parsing.*\r\nimport org.w3c.dom.pointerevents.*\r\nimport org.w3c.dom.svg.*\r\nimport org.w3c.dom.url.*\r\nimport org.w3c.fetch.*\r\nimport org.w3c.files.*\r\nimport org.w3c.notifications.*\r\nimport org.w3c.performance.*\r\nimport org.w3c.workers.*\r\nimport org.w3c.xhr.*\r\n\r\n/**\r\n * Exposes the JavaScript [CSSStyleDeclaration](https://developer.mozilla.org/en/docs/Web/API/CSSStyleDeclaration) to Kotlin\r\n */\r\npublic external abstract class CSSStyleDeclaration : ItemArrayLike<String> {\r\n   open var cssText: String\r\n   override val length: Int\r\n   open val parentRule: CSSRule?\r\n   open var cssFloat: String\r\n   open var _dashed_attribute: String\r\n   open var _camel_cased_attribute: String\r\n   open var _webkit_cased_attribute: String\r\n   open var alignContent: String\r\n   open var alignItems: String\r\n   open var alignSelf: String\r\n   open var animation: String\r\n   open var animationDelay: String\r\n   open var animationDirection: String\r\n   open var animationDuration: String\r\n   open var animationFillMode: String\r\n   open var animationIterationCount: String\r\n   open var animationName: String\r\n   open var animationPlayState: String\r\n   open var animationTimingFunction: String\r\n   open var backfaceVisibility: String\r\n   open var background: String\r\n   open var backgroundAttachment: String\r\n   open var backgroundClip: String\r\n   open var backgroundColor: String\r\n   open var backgroundImage: String\r\n   open var backgroundOrigin: String\r\n   open var backgroundPosition: String\r\n   open var backgroundRepeat: String\r\n   open var backgroundSize: String\r\n   open var border: String\r\n   open var borderBottom: String\r\n   open var borderBottomColor: String\r\n   open var borderBottomLeftRadius: String\r\n   open var borderBottomRightRadius: String\r\n   open var borderBottomStyle: String\r\n   open var borderBottomWidth: String\r\n   open var borderCollapse: String\r\n   open var borderColor: String\r\n   open var borderImage: String\r\n   open var borderImageOutset: String\r\n   open var borderImageRepeat: String\r\n   open var borderImageSlice: String\r\n   open var borderImageSource: String\r\n   open var borderImageWidth: String\r\n   open var borderLeft: String\r\n   open var borderLeftColor: String\r\n   open var borderLeftStyle: String\r\n   open var borderLeftWidth: String\r\n   open var borderRadius: String\r\n   open var borderRight: String\r\n   open var borderRightColor: String\r\n   open var borderRightStyle: String\r\n   open var borderRightWidth: String\r\n   open var borderSpacing: String\r\n   open var borderStyle: String\r\n   open var borderTop: String\r\n   open var borderTopColor: String\r\n   open var borderTopLeftRadius: String\r\n   open var borderTopRightRadius: String\r\n   open var borderTopStyle: String\r\n   open var borderTopWidth: String\r\n   open var borderWidth: String\r\n   open var bottom: String\r\n   open var boxDecorationBreak: String\r\n   open var boxShadow: String\r\n   open var boxSizing: String\r\n   open var breakAfter: String\r\n   open var breakBefore: String\r\n   open var breakInside: String\r\n   open var captionSide: String\r\n   open var clear: String\r\n   open var clip: String\r\n   open var color: String\r\n   open var columnCount: String\r\n   open var columnFill: String\r\n   open var columnGap: String\r\n   open var columnRule: String\r\n   open var columnRuleColor: String\r\n   open var columnRuleStyle: String\r\n   open var columnRuleWidth: String\r\n   open var columnSpan: String\r\n   open var columnWidth: String\r\n   open var columns: String\r\n   open var content: String\r\n   open var counterIncrement: String\r\n   open var counterReset: String\r\n   open var cursor: String\r\n   open var direction: String\r\n   open var display: String\r\n   open var emptyCells: String\r\n   open var filter: String\r\n   open var flex: String\r\n   open var flexBasis: String\r\n   open var flexDirection: String\r\n   open var flexFlow: String\r\n   open var flexGrow: String\r\n   open var flexShrink: String\r\n   open var flexWrap: String\r\n   open var font: String\r\n   open var fontFamily: String\r\n   open var fontFeatureSettings: String\r\n   open var fontKerning: String\r\n   open var fontLanguageOverride: String\r\n   open var fontSize: String\r\n   open var fontSizeAdjust: String\r\n   open var fontStretch: String\r\n   open var fontStyle: String\r\n   open var fontSynthesis: String\r\n   open var fontVariant: String\r\n   open var fontVariantAlternates: String\r\n   open var fontVariantCaps: String\r\n   open var fontVariantEastAsian: String\r\n   open var fontVariantLigatures: String\r\n   open var fontVariantNumeric: String\r\n   open var fontVariantPosition: String\r\n   open var fontWeight: String\r\n   open var hangingPunctuation: String\r\n   open var height: String\r\n   open var hyphens: String\r\n   open var imageOrientation: String\r\n   open var imageRendering: String\r\n   open

var imageResolution: String\r\n   open var imeMode: String\r\n   open var justifyContent: String\r\n   open var left: String\r\n   open var letterSpacing: String\r\n   open var lineBreak: String\r\n   open var lineHeight: String\r\n   open var listStyle: String\r\n   open var listStyleImage: String\r\n   open var listStylePosition: String\r\n   open var listStyleType: String\r\n   open var margin: String\r\n   open var marginBottom: String\r\n   open var marginLeft: String\r\n   open var marginRight: String\r\n   open var marginTop: String\r\n   open var mark: String\r\n   open var markAfter: String\r\n   open var markBefore: String\r\n   open var marks: String\r\n   open var marqueeDirection: String\r\n   open var marqueePlayCount: String\r\n   open var marqueeSpeed: String\r\n   open var marqueeStyle: String\r\n   open var mask: String\r\n   open var maskType: String\r\n   open var maxHeight: String\r\n   open var maxWidth: String\r\n   open var minHeight: String\r\n   open var minWidth: String\r\n   open var navDown: String\r\n   open var navIndex: String\r\n   open var navLeft: String\r\n   open var navRight: String\r\n   open var navUp: String\r\n   open var objectFit: String\r\n   open var objectPosition: String\r\n   open var opacity: String\r\n   open var order: String\r\n   open var orphans: String\r\n   open var outline: String\r\n   open var outlineColor: String\r\n   open var outlineOffset: String\r\n   open var outlineStyle: String\r\n   open var outlineWidth: String\r\n   open var overflowWrap: String\r\n   open var overflowX: String\r\n   open var overflowY: String\r\n   open var padding: String\r\n   open var paddingBottom: String\r\n   open var paddingLeft: String\r\n   open var paddingRight: String\r\n   open var paddingTop: String\r\n   open var pageBreakAfter: String\r\n   open var pageBreakBefore: String\r\n   open var pageBreakInside: String\r\n   open var perspective: String\r\n   open var perspectiveOrigin: String\r\n   open var phonemes: String\r\n   open var position: String\r\n   open var quotes: String\r\n   open var resize: String\r\n   open var rest: String\r\n   open var restAfter: String\r\n   open var restBefore: String\r\n   open var right: String\r\n   open var tabSize: String\r\n   open var tableLayout: String\r\n   open var textAlign: String\r\n   open var textAlignLast: String\r\n   open var textCombineUpright: String\r\n   open var textDecoration: String\r\n   open var textDecorationColor: String\r\n   open var textDecorationLine: String\r\n   open var textDecorationStyle: String\r\n   open var textIndent: String\r\n   open var textJustify: String\r\n   open var textOrientation: String\r\n   open var textOverflow: String\r\n   open var textShadow: String\r\n   open var textTransform: String\r\n   open var textUnderlinePosition: String\r\n   open var top: String\r\n   open var transform: String\r\n   open var transformOrigin: String\r\n   open var transformStyle: String\r\n   open var transition: String\r\n   open var transitionDelay: String\r\n   open var transitionDuration: String\r\n   open var transitionProperty: String\r\n   open var transitionTimingFunction: String\r\n   open var unicodeBidi: String\r\n   open var verticalAlign: String\r\n   open var visibility: String\r\n   open var voiceBalance: String\r\n   open var voiceDuration: String\r\n   open var voicePitch: String\r\n   open var voicePitchRange: String\r\n   open var voiceRate: String\r\n   open var voiceStress: String\r\n   open var voiceVolume: String\r\n   open var whiteSpace: String\r\n   open var widows: String\r\n   open var width: String\r\n   open var wordBreak: String\r\n   open var wordSpacing: String\r\n   open var wordWrap: String\r\n   open var writingMode: String\r\n   open var zIndex: String\r\n   override fun item(index: Int): String\r\n   fun getPropertyValue(property: String): String\r\n   fun getPropertyPriority(property: String): String\r\n   fun setProperty(property: String, value: String, priority: String = definedExternally): Unit\r\n   fun setPropertyValue(property: String, value: String): Unit\r\n   fun setPropertyPriority(property: String, priority: String): Unit\r\n   fun removeProperty(property: String): String\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun CSSStyleDeclaration.get(index: Int): String? = asDynamic()[index]\r\n\r\n\r\npublic external abstract class MediaList : ItemArrayLike<String> {\r\n   open var mediaText: String\r\n   override val length: Int\r\n   override fun item(index: Int): String?\r\n   fun appendMedium(medium: String): Unit\r\n   fun deleteMedium(medium: String): Unit\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun MediaList.get(index: Int): String? = asDynamic()[index]\r\n\r\n\r\n/**\r\n * Exposes the JavaScript [StyleSheet](https://developer.mozilla.org/en/docs/Web/API/StyleSheet) to Kotlin\r\n */\r\npublic external abstract class StyleSheet {\r\n   open val type: String\r\n   open val href: String?\r\n   open val ownerNode: UnionElementOrProcessingInstruction?\r\n   open val parentStyleSheet: StyleSheet?\r\n   open val title: String?\r\n   open val media: MediaList\r\n   open var disabled: Boolean\r\n}\r\n\r\n\r\n/**\r\n * Exposes the JavaScript [CSSStyleSheet](https://developer.mozilla.org/en/docs/Web/API/CSSStyleSheet) to Kotlin\r\n */\r\npublic external

abstract class CSSStyleSheet : StyleSheet {\r\n   open val ownerRule: CSSRule?\r\n   open val cssRules: CSSRuleList\r\n   fun insertRule(rule: String, index: Int): Int\r\n   fun deleteRule(index: Int): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [StyleSheetList](https://developer.mozilla.org/en/docs/Web/API/StyleSheetList) to Kotlin\r\n */\r\npublic external abstract class StyleSheetList : ItemArrayLike<StyleSheet> {\r\n   override val length: Int\r\n   override fun item(index: Int): StyleSheet?\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun StyleSheetList.get(index: Int): StyleSheet? = asDynamic()[index]\r\n\r\n/**\r\n * Exposes the JavaScript [LinkStyle](https://developer.mozilla.org/en/docs/Web/API/LinkStyle) to Kotlin\r\n */\r\npublic external interface LinkStyle {\r\n   val sheet: StyleSheet?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CSSRuleList](https://developer.mozilla.org/en/docs/Web/API/CSSRuleList) to Kotlin\r\n */\r\npublic external abstract class CSSRuleList : ItemArrayLike<CSSRule> {\r\n   override val length: Int\r\n   override fun item(index: Int): CSSRule?\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun CSSRuleList.get(index: Int): CSSRule? = asDynamic()[index]\r\n\r\n/**\r\n * Exposes the JavaScript [CSSRule](https://developer.mozilla.org/en/docs/Web/API/CSSRule) to Kotlin\r\n */\r\npublic external abstract class CSSRule {\r\n   open val type: Short\r\n   open var cssText: String\r\n   open val parentRule: CSSRule?\r\n   open val parentStyleSheet: CSSStyleSheet?\r\n\r\n   companion object {\r\n   val STYLE_RULE: Short\r\n   val CHARSET_RULE: Short\r\n   val IMPORT_RULE: Short\r\n   val MEDIA_RULE: Short\r\n   val FONT_FACE_RULE: Short\r\n   val PAGE_RULE: Short\r\n   val MARGIN_RULE: Short\r\n   val NAMESPACE_RULE: Short\r\n   }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CSSStyleRule](https://developer.mozilla.org/en/docs/Web/API/CSSStyleRule) to Kotlin\r\n */\r\npublic external abstract class CSSStyleRule : CSSRule {\r\n   open var selectorText: String\r\n   open val style: CSSStyleDeclaration\r\n}\r\n\r\npublic external abstract class CSSImportRule : CSSRule {\r\n   open val href: String\r\n   open val media: MediaList\r\n   open val styleSheet: CSSStyleSheet\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CSSGroupingRule](https://developer.mozilla.org/en/docs/Web/API/CSSGroupingRule) to Kotlin\r\n */\r\npublic external abstract class CSSGroupingRule : CSSRule {\r\n   open val cssRules: CSSRuleList\r\n   fun insertRule(rule: String, index: Int): Int\r\n   fun deleteRule(index: Int): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CSSMediaRule](https://developer.mozilla.org/en/docs/Web/API/CSSMediaRule) to Kotlin\r\n */\r\npublic external abstract class CSSMediaRule : CSSGroupingRule {\r\n   open val media: MediaList\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CSSPageRule](https://developer.mozilla.org/en/docs/Web/API/CSSPageRule) to Kotlin\r\n */\r\npublic external abstract class CSSPageRule : CSSGroupingRule {\r\n   open var selectorText: String\r\n   open val style: CSSStyleDeclaration\r\n}\r\n\r\npublic external abstract class CSSMarginRule : CSSRule {\r\n   open val name: String\r\n   open val style: CSSStyleDeclaration\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CSSNamespaceRule](https://developer.mozilla.org/en/docs/Web/API/CSSNamespaceRule) to Kotlin\r\n */\r\npublic external abstract class CSSNamespaceRule : CSSRule {\r\n   open val namespaceURI: String\r\n   open val prefix: String\r\n}\r\n\r\npublic external interface ElementCSSInlineStyle {\r\n   val style: CSSStyleDeclaration\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CSS](https://developer.mozilla.org/en/docs/Web/API/CSS) to Kotlin\r\n */\r\npublic external abstract class CSS {\r\n\r\n   companion object {\r\n   fun escape(ident: String): String\r\n   }\r\n}\r\n\r\n"/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\r\n// See libraries/tools/idl2k for details\r\n\r\n@file:Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\r\npackage org.w3c.dom.events\r\n\r\nimport kotlin.js.*\r\nimport org.khronos.webgl.*\r\nimport org.w3c.css.masking.*\r\nimport org.w3c.dom.*\r\nimport org.w3c.dom.clipboard.*\r\nimport org.w3c.dom.css.*\r\nimport org.w3c.dom.mediacapture.*\r\nimport org.w3c.dom.parsing.*\r\nimport org.w3c.dom.pointerevents.*\r\nimport org.w3c.dom.svg.*\r\nimport org.w3c.dom.url.*\r\nimport org.w3c.fetch.*\r\nimport org.w3c.files.*\r\nimport org.w3c.notifications.*\r\nimport

org.w3c.performance.*\r\nimport org.w3c.workers.*\r\nimport org.w3c.xhr.*\r\n\r\n/**\r\n * Exposes the JavaScript [UIEvent](https://developer.mozilla.org/en/docs/Web/API/UIEvent) to Kotlin\r\n */\r\npublic external open class UIEvent(type: String, eventInitDict: UIEventInit = definedExternally) : Event {\r\n open val view: Window?\r\n open val detail: Int\r\n}\r\n\r\npublic external interface UIEventInit : EventInit {\r\n var view: Window? /* = null */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var detail: Int? /* = 0 */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UIEventInit(view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): UIEventInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"view\"] = view\r\n o[\"detail\"] = detail\r\n o[\"bubbles\"] = bubbles\r\n o[\"cancelable\"] = cancelable\r\n o[\"composed\"] = composed\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [FocusEvent](https://developer.mozilla.org/en/docs/Web/API/FocusEvent) to Kotlin\r\n */\r\npublic external open class FocusEvent(type: String, eventInitDict: FocusEventInit = definedExternally) : UIEvent {\r\n open val relatedTarget: EventTarget?\r\n}\r\n\r\npublic external interface FocusEventInit : UIEventInit {\r\n var relatedTarget: EventTarget? /* = null */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun FocusEventInit(relatedTarget: EventTarget? = null, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): FocusEventInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"relatedTarget\"] = relatedTarget\r\n o[\"view\"] = view\r\n o[\"detail\"] = detail\r\n o[\"bubbles\"] = bubbles\r\n o[\"cancelable\"] = cancelable\r\n o[\"composed\"] = composed\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [MouseEvent](https://developer.mozilla.org/en/docs/Web/API/MouseEvent) to Kotlin\r\n */\r\npublic external open class MouseEvent(type: String, eventInitDict: MouseEventInit = definedExternally) : UIEvent, UnionElementOrMouseEvent {\r\n open val region: String?\r\n open val screenX: Int\r\n open val screenY: Int\r\n open val pageX: Double\r\n open val pageY: Double\r\n open val clientX: Int\r\n open val clientY: Int\r\n open val offsetX: Double\r\n open val offsetY: Double\r\n open val ctrlKey: Boolean\r\n open val shiftKey: Boolean\r\n open val altKey: Boolean\r\n open val metaKey: Boolean\r\n open val button: Short\r\n open val buttons: Short\r\n open val relatedTarget: EventTarget?\r\n fun getModifierState(keyArg: String): Boolean\r\n}\r\n\r\npublic external interface MouseEventInit : EventModifierInit {\r\n var screenX: Int? /* = 0 */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var screenY: Int? /* = 0 */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var clientX: Int? /* = 0 */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var clientY: Int? /* = 0 */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var button: Short? /* = 0 */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var buttons: Short? /* = 0 */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var relatedTarget: EventTarget? /* = null */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun MouseEventInit(screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget: EventTarget? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): MouseEventInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"screenX\"] = screenX\r\n o[\"screenY\"] = screenY\r\n o[\"clientX\"] = clientX\r\n o[\"clientY\"] = clientY\r\n o[\"button\"] = button\r\n o[\"buttons\"] = buttons\r\n o[\"relatedTarget\"] = relatedTarget\r\n o[\"ctrlKey\"] = ctrlKey\r\n o[\"shiftKey\"] = shiftKey\r\n o[\"altKey\"] = altKey\r\n o[\"metaKey\"] = metaKey\r\n o[\"modifierAltGraph\"] = modifierAltGraph\r\n o[\"modifierCapsLock\"] = modifierCapsLock\r\n o[\"modifierFn\"] = modifierFn\r\n o[\"modifierFnLock\"] = modifierFnLock\r\n o[\"modifierHyper\"] = modifierHyper\r\n o[\"modifierNumLock\"] = modifierNumLock\r\n o[\"modifierScrollLock\"] = modifierScrollLock\r\n o[\"modifierSuper\"] = modifierSuper\r\n

o[\"modifierSymbol\"] = modifierSymbol\r\n o[\"modifierSymbolLock\"] = modifierSymbolLock\r\n o[\"view\"] = view\r\n o[\"detail\"] = detail\r\n o[\"bubbles\"] = bubbles\r\n o[\"cancelable\"] = cancelable\r\n o[\"composed\"] = composed\r\n\r\n\r\n return o\r\n}\r\n\r\npublic external interface EventModifierInit : UIEventInit {\r\n var ctrlKey: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var shiftKey: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var altKey: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var metaKey: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var modifierAltGraph: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var modifierCapsLock: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var modifierFn: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var modifierFnLock: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var modifierHyper: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var modifierNumLock: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var modifierScrollLock: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var modifierSuper: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var modifierSymbol: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var modifierSymbolLock: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun EventModifierInit(ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): EventModifierInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"ctrlKey\"] = ctrlKey\r\n o[\"shiftKey\"] = shiftKey\r\n o[\"altKey\"] = altKey\r\n o[\"metaKey\"] = metaKey\r\n o[\"modifierAltGraph\"] = modifierAltGraph\r\n o[\"modifierCapsLock\"] = modifierCapsLock\r\n o[\"modifierFn\"] = modifierFn\r\n o[\"modifierFnLock\"] = modifierFnLock\r\n o[\"modifierHyper\"] = modifierHyper\r\n o[\"modifierNumLock\"] = modifierNumLock\r\n o[\"modifierScrollLock\"] = modifierScrollLock\r\n o[\"modifierSuper\"] = modifierSuper\r\n o[\"modifierSymbol\"] = modifierSymbol\r\n o[\"modifierSymbolLock\"] = modifierSymbolLock\r\n o[\"view\"] = view\r\n o[\"detail\"] = detail\r\n o[\"bubbles\"] = bubbles\r\n o[\"cancelable\"] = cancelable\r\n o[\"composed\"] = composed\r\n\r\n\r\n return o\r\n}\r\n\r\n\r\n/**\r\n * Exposes the JavaScript [WheelEvent](https://developer.mozilla.org/en/docs/Web/API/WheelEvent) to Kotlin\r\n */\r\npublic external open class WheelEvent(type: String, eventInitDict: WheelEventInit = definedExternally) : MouseEvent {\r\n open val deltaX: Double\r\n open val deltaY: Double\r\n open val deltaZ: Double\r\n open val deltaMode: Int\r\n\r\n\r\n companion object {\r\n val DOM_DELTA_PIXEL: Int\r\n val DOM_DELTA_LINE: Int\r\n val DOM_DELTA_PAGE: Int\r\n }\r\n}\r\n\r\n\r\npublic external interface WheelEventInit : MouseEventInit {\r\n var deltaX: Double? /* = 0.0 */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var deltaY: Double? /* = 0.0 */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var deltaZ: Double? /* = 0.0 */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var deltaMode: Int? /* = 0 */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun WheelEventInit(deltaX: Double? = 0.0, deltaY: Double? = 0.0, deltaZ: Double? = 0.0, deltaMode: Int? = 0, screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget: EventTarget? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false,

modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): WheelEventInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"deltaX\"] = deltaX\r\n o[\"deltaY\"] = deltaY\r\n o[\"deltaZ\"] = deltaZ\r\n o[\"deltaMode\"] = deltaMode\r\n o[\"screenX\"] = screenX\r\n o[\"screenY\"] = screenY\r\n o[\"clientX\"] = clientX\r\n o[\"clientY\"] = clientY\r\n o[\"button\"] = button\r\n o[\"buttons\"] = buttons\r\n o[\"relatedTarget\"] = relatedTarget\r\n o[\"ctrlKey\"] = ctrlKey\r\n o[\"shiftKey\"] = shiftKey\r\n o[\"altKey\"] = altKey\r\n o[\"metaKey\"] = metaKey\r\n o[\"modifierAltGraph\"] = modifierAltGraph\r\n o[\"modifierCapsLock\"] = modifierCapsLock\r\n o[\"modifierFn\"] = modifierFn\r\n o[\"modifierFnLock\"] = modifierFnLock\r\n o[\"modifierHyper\"] = modifierHyper\r\n o[\"modifierNumLock\"] = modifierNumLock\r\n o[\"modifierScrollLock\"] = modifierScrollLock\r\n o[\"modifierSuper\"] = modifierSuper\r\n o[\"modifierSymbol\"] = modifierSymbol\r\n o[\"modifierSymbolLock\"] = modifierSymbolLock\r\n o[\"view\"] = view\r\n o[\"detail\"] = detail\r\n o[\"bubbles\"] = bubbles\r\n o[\"cancelable\"] = cancelable\r\n o[\"composed\"] = composed\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [InputEvent](https://developer.mozilla.org/en/docs/Web/API/InputEvent) to Kotlin\r\n */\r\npublic external open class InputEvent(type: String, eventInitDict: InputEventInit = definedExternally) : UIEvent {\r\n open val data: String\r\n open val isComposing: Boolean\r\n}\r\n\r\npublic external interface InputEventInit : UIEventInit {\r\n var data: String? /* = \"\" */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var isComposing: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun InputEventInit(data: String? = \"\", isComposing: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): InputEventInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"data\"] = data\r\n o[\"isComposing\"] = isComposing\r\n o[\"view\"] = view\r\n o[\"detail\"] = detail\r\n o[\"bubbles\"] = bubbles\r\n o[\"cancelable\"] = cancelable\r\n o[\"composed\"] = composed\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [KeyboardEvent](https://developer.mozilla.org/en/docs/Web/API/KeyboardEvent) to Kotlin\r\n */\r\npublic external open class KeyboardEvent(type: String, eventInitDict: KeyboardEventInit = definedExternally) : UIEvent {\r\n open val key: String\r\n open val code: String\r\n open val location: Int\r\n open val ctrlKey: Boolean\r\n open val shiftKey: Boolean\r\n open val altKey: Boolean\r\n open val metaKey: Boolean\r\n open val repeat: Boolean\r\n open val isComposing: Boolean\r\n open val charCode: Int\r\n open val keyCode: Int\r\n open val which: Int\r\n fun getModifierState(keyArg: String): Boolean\r\n\r\n companion object {\r\n val DOM_KEY_LOCATION_STANDARD: Int\r\n val DOM_KEY_LOCATION_LEFT: Int\r\n val DOM_KEY_LOCATION_RIGHT: Int\r\n val DOM_KEY_LOCATION_NUMPAD: Int\r\n }\r\n}\r\n\r\npublic external interface KeyboardEventInit : EventModifierInit {\r\n var key: String? /* = \"\" */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var code: String? /* = \"\" */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var location: Int? /* = 0 */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var repeat: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var isComposing: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun KeyboardEventInit(key: String? = \"\", code: String? = \"\", location: Int? = 0, repeat: Boolean? = false, isComposing: Boolean? = false, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): KeyboardEventInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"key\"] = key\r\n o[\"code\"] = code\r\n o[\"location\"] = location\r\n o[\"repeat\"] = repeat\r\n o[\"isComposing\"] = isComposing\r\n o[\"ctrlKey\"] = ctrlKey\r\n o[\"shiftKey\"] = shiftKey\r\n o[\"altKey\"] = altKey\r\n o[\"metaKey\"] = metaKey\r\n o[\"modifierAltGraph\"] = modifierAltGraph\r\n

o[\"modifierCapsLock\"] = modifierCapsLock\r\n   o[\"modifierFn\"] = modifierFn\r\n   o[\"modifierFnLock\"] = modifierFnLock\r\n   o[\"modifierHyper\"] = modifierHyper\r\n   o[\"modifierNumLock\"] = modifierNumLock\r\n   o[\"modifierScrollLock\"] = modifierScrollLock\r\n   o[\"modifierSuper\"] = modifierSuper\r\n   o[\"modifierSymbol\"] = modifierSymbol\r\n   o[\"modifierSymbolLock\"] = modifierSymbolLock\r\n   o[\"view\"] = view\r\n   o[\"detail\"] = detail\r\n   o[\"bubbles\"] = bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CompositionEvent](https://developer.mozilla.org/en/docs/Web/API/CompositionEvent) to Kotlin\r\n */\r\npublic external open class CompositionEvent(type: String, eventInitDict: CompositionEventInit = definedExternally) : UIEvent {\r\n   open val data: String\r\n}\r\n\r\npublic external interface CompositionEventInit : UIEventInit {\r\n   var data: String? /* = \"\" */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun CompositionEventInit(data: String? = \"\", view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): CompositionEventInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"data\"] = data\r\n   o[\"view\"] = view\r\n   o[\"detail\"] = detail\r\n   o[\"bubbles\"] = bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Event](https://developer.mozilla.org/en/docs/Web/API/Event) to Kotlin\r\n */\r\npublic external open class Event(type: String, eventInitDict: EventInit = definedExternally) {\r\n   open val type: String\r\n   open val target: EventTarget?\r\n   open val currentTarget: EventTarget?\r\n   open val eventPhase: Short\r\n   open val bubbles: Boolean\r\n   open val cancelable: Boolean\r\n   open val defaultPrevented: Boolean\r\n   open val composed: Boolean\r\n   open val isTrusted: Boolean\r\n   open val timeStamp: Number\r\n   fun composedPath(): Array<EventTarget>\r\n   fun stopPropagation(): Unit\r\n   fun stopImmediatePropagation(): Unit\r\n   fun preventDefault(): Unit\r\n   fun initEvent(type: String, bubbles: Boolean, cancelable: Boolean): Unit\r\n\r\n   companion object {\r\n   val NONE: Short\r\n   val CAPTURING_PHASE: Short\r\n   val AT_TARGET: Short\r\n   val BUBBLING_PHASE: Short\r\n   }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [EventTarget](https://developer.mozilla.org/en/docs/Web/API/EventTarget) to Kotlin\r\n */\r\npublic external abstract class EventTarget {\r\n   fun addEventListener(type: String, callback: EventListener?, options: dynamic = definedExternally): Unit\r\n   fun addEventListener(type: String, callback: ((Event) -> Unit)?, options: dynamic = definedExternally): Unit\r\n   fun removeEventListener(type: String, callback: EventListener?, options: dynamic = definedExternally): Unit\r\n   fun removeEventListener(type: String, callback: ((Event) -> Unit)?, options: dynamic = definedExternally): Unit\r\n   fun dispatchEvent(event: Event): Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [EventListener](https://developer.mozilla.org/en/docs/Web/API/EventListener) to Kotlin\r\n */\r\npublic external interface EventListener {\r\n   fun handleEvent(event: Event): Unit\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\r\n// See libraries/tools/idl2k for details\r\n\r\n@file:Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\r\npackage org.w3c.dom\r\n\r\nimport kotlin.js.*\r\nimport org.khronos.webgl.*\r\nimport org.w3c.css.masking.*\r\nimport org.w3c.dom.clipboard.*\r\nimport org.w3c.dom.css.*\r\nimport org.w3c.dom.events.*\r\nimport org.w3c.dom.mediacapture.*\r\nimport org.w3c.dom.parsing.*\r\nimport org.w3c.dom.pointerevents.*\r\nimport org.w3c.dom.svg.*\r\nimport org.w3c.dom.url.*\r\nimport org.w3c.fetch.*\r\nimport org.w3c.files.*\r\nimport org.w3c.notifications.*\r\nimport org.w3c.performance.*\r\nimport org.w3c.workers.*\r\nimport org.w3c.xhr.*\r\n\r\n/**\r\n * Exposes the JavaScript [Navigator](https://developer.mozilla.org/en/docs/Web/API/Navigator) to Kotlin\r\n */\r\npublic external abstract class Navigator : NavigatorID, NavigatorLanguage, NavigatorOnLine, NavigatorContentUtils, NavigatorCookies, NavigatorPlugins, NavigatorConcurrentHardware {\r\n   open val serviceWorker: ServiceWorkerContainer\r\n   open val maxTouchPoints: Int\r\n   open val mediaDevices: MediaDevices\r\n   open val clipboard: Clipboard\r\n   fun vibrate(pattern: dynamic): Boolean\r\n   fun getUserMedia(constraints: MediaStreamConstraints, successCallback: (MediaStream) -> Unit, errorCallback: (dynamic) -> Unit): Unit\r\n}\r\n\r\n/**\r\n * Exposes the

JavaScript [Document](https://developer.mozilla.org/en/docs/Web/API/Document) to Kotlin\r\n */\r\npublic external open class Document : Node, GlobalEventHandlers, DocumentAndElementEventHandlers, NonElementParentNode, DocumentOrShadowRoot, ParentNode, GeometryUtils {\r\n open val fullscreenEnabled: Boolean\r\n open val fullscreen: Boolean\r\n var onfullscreenchange: ((Event) -> dynamic)?\r\n var onfullscreenerror: ((Event) -> dynamic)?\r\n open val rootElement: SVGSVGElement?\r\n var title: String\r\n open val referrer: String\r\n var domain: String\r\n open val activeElement: Element?\r\n open val location: Location?\r\n var cookie: String\r\n open val lastModified: String\r\n open val readyState: DocumentReadyState\r\n var dir: String\r\n var body: HTMLElement?\r\n open val head: HTMLHeadElement?\r\n open val images: HTMLCollection\r\n open val embeds: HTMLCollection\r\n open val plugins: HTMLCollection\r\n open val links: HTMLCollection\r\n open val forms: HTMLCollection\r\n open val scripts: HTMLCollection\r\n open val currentScript: HTMLOrSVGScriptElement?\r\n open val defaultView: Window?\r\n var designMode: String\r\n var onreadystatechange: ((Event) -> dynamic)?\r\n var fgColor: String\r\n var linkColor: String\r\n var vlinkColor: String\r\n var alinkColor: String\r\n var bgColor: String\r\n open val anchors: HTMLCollection\r\n open val applets: HTMLCollection\r\n open val all: HTMLAllCollection\r\n open val implementation: DOMImplementation\r\n open val URL: String\r\n open val documentURI: String\r\n open val origin: String\r\n open val compatMode: String\r\n open val characterSet: String\r\n open val charset: String\r\n open val inputEncoding: String\r\n open val contentType: String\r\n open val doctype: DocumentType?\r\n open val documentElement: Element?\r\n open val scrollingElement: Element?\r\n open val styleSheets: StyleSheetList\r\n override var ongotpointercapture: ((PointerEvent) -> dynamic)?\r\n override var onlostpointercapture: ((PointerEvent) -> dynamic)?\r\n override var onpointerdown: ((PointerEvent) -> dynamic)?\r\n override var onpointermove: ((PointerEvent) -> dynamic)?\r\n override var onpointerup: ((PointerEvent) -> dynamic)?\r\n override var onpointercancel: ((PointerEvent) -> dynamic)?\r\n override var onpointerover: ((PointerEvent) -> dynamic)?\r\n override var onpointerout: ((PointerEvent) -> dynamic)?\r\n override var onpointerenter: ((PointerEvent) -> dynamic)?\r\n override var onpointerleave: ((PointerEvent) -> dynamic)?\r\n override var onabort: ((Event) -> dynamic)?\r\n override var onblur: ((FocusEvent) -> dynamic)?\r\n override var oncancel: ((Event) -> dynamic)?\r\n override var oncanplay: ((Event) -> dynamic)?\r\n override var oncanplaythrough: ((Event) -> dynamic)?\r\n override var onchange: ((Event) -> dynamic)?\r\n override var onclick: ((MouseEvent) -> dynamic)?\r\n override var onclose: ((Event) -> dynamic)?\r\n override var oncontextmenu: ((MouseEvent) -> dynamic)?\r\n override var oncuechange: ((Event) -> dynamic)?\r\n override var ondblclick: ((MouseEvent) -> dynamic)?\r\n override var ondrag: ((DragEvent) -> dynamic)?\r\n override var ondragend: ((DragEvent) -> dynamic)?\r\n override var ondragenter: ((DragEvent) -> dynamic)?\r\n override var ondragexit: ((DragEvent) -> dynamic)?\r\n override var ondragleave: ((DragEvent) -> dynamic)?\r\n override var ondragover: ((DragEvent) -> dynamic)?\r\n override var ondragstart: ((DragEvent) -> dynamic)?\r\n override var ondrop: ((DragEvent) -> dynamic)?\r\n override var ondurationchange: ((Event) -> dynamic)?\r\n override var onemptied: ((Event) -> dynamic)?\r\n override var onended: ((Event) -> dynamic)?\r\n override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\r\n override var onfocus: ((FocusEvent) -> dynamic)?\r\n override var oninput: ((InputEvent) -> dynamic)?\r\n override var oninvalid: ((Event) -> dynamic)?\r\n override var onkeydown: ((KeyboardEvent) -> dynamic)?\r\n override var onkeypress: ((KeyboardEvent) -> dynamic)?\r\n override var onkeyup: ((KeyboardEvent) -> dynamic)?\r\n override var onload: ((Event) -> dynamic)?\r\n override var onloadeddata: ((Event) -> dynamic)?\r\n override var onloadedmetadata: ((Event) -> dynamic)?\r\n override var onloadend: ((Event) -> dynamic)?\r\n override var onloadstart: ((ProgressEvent) -> dynamic)?\r\n override var onmousedown: ((MouseEvent) -> dynamic)?\r\n override var onmouseenter: ((MouseEvent) -> dynamic)?\r\n override var onmouseleave: ((MouseEvent) -> dynamic)?\r\n override var onmousemove: ((MouseEvent) -> dynamic)?\r\n override var onmouseout: ((MouseEvent) -> dynamic)?\r\n override var onmouseover: ((MouseEvent) -> dynamic)?\r\n override var onmouseup: ((MouseEvent) -> dynamic)?\r\n override var onwheel: ((WheelEvent) -> dynamic)?\r\n override var onpause: ((Event) -> dynamic)?\r\n override var onplay: ((Event) -> dynamic)?\r\n override var onplaying: ((Event) -> dynamic)?\r\n override var onprogress: ((ProgressEvent) -> dynamic)?\r\n

override var onratechange: ((Event) -> dynamic)?\r\n   override var onreset: ((Event) -> dynamic)?\r\n   override var onresize: ((Event) -> dynamic)?\r\n   override var onscroll: ((Event) -> dynamic)?\r\n   override var onseeked: ((Event) -> dynamic)?\r\n   override var onseeking: ((Event) -> dynamic)?\r\n   override var onselect: ((Event) -> dynamic)?\r\n   override var onshow: ((Event) -> dynamic)?\r\n   override var onstalled: ((Event) -> dynamic)?\r\n   override var onsubmit: ((Event) -> dynamic)?\r\n   override var onsuspend: ((Event) -> dynamic)?\r\n   override var ontimeupdate: ((Event) -> dynamic)?\r\n   override var ontoggle: ((Event) -> dynamic)?\r\n   override var onvolumechange: ((Event) -> dynamic)?\r\n   override var onwaiting: ((Event) -> dynamic)?\r\n   override var oncopy: ((ClipboardEvent) -> dynamic)?\r\n   override var oncut: ((ClipboardEvent) -> dynamic)?\r\n   override var onpaste: ((ClipboardEvent) -> dynamic)?\r\n   override val fullscreenElement: Element?\r\n   override val children: HTMLCollection\r\n   override val firstElementChild: Element?\r\n   override val lastElementChild: Element?\r\n   override val childElementCount: Int\r\n   fun exitFullscreen(): Promise<Unit>\r\n   fun getElementsByName(elementName: String): NodeList\r\n   fun open(type: String = definedExternally, replace: String = definedExternally): Document\r\n   fun open(url: String, name: String, features: String): Window\r\n   fun close(): Unit\r\n   fun write(vararg text: String): Unit\r\n   fun writeln(vararg text: String): Unit\r\n   fun hasFocus(): Boolean\r\n   fun execCommand(commandId: String, showUI: Boolean = definedExternally, value: String = definedExternally): Boolean\r\n   fun queryCommandEnabled(commandId: String): Boolean\r\n   fun queryCommandIndeterm(commandId: String): Boolean\r\n   fun queryCommandState(commandId: String): Boolean\r\n   fun queryCommandSupported(commandId: String): Boolean\r\n   fun queryCommandValue(commandId: String): String\r\n   fun clear(): Unit\r\n   fun captureEvents(): Unit\r\n   fun releaseEvents(): Unit\r\n   fun getElementsByTagName(qualifiedName: String): HTMLCollection\r\n   fun getElementsByTagNameNS(namespace: String?, localName: String): HTMLCollection\r\n   fun getElementsByClassName(classNames: String): HTMLCollection\r\n   fun createElement(localName: String, options: ElementCreationOptions = definedExternally): Element\r\n   fun createElementNS(namespace: String?, qualifiedName: String, options: ElementCreationOptions = definedExternally): Element\r\n   fun createDocumentFragment(): DocumentFragment\r\n   fun createTextNode(data: String): Text\r\n   fun createCDATASection(data: String): CDATASection\r\n   fun createComment(data: String): Comment\r\n   fun createProcessingInstruction(target: String, data: String): ProcessingInstruction\r\n   fun importNode(node: Node, deep: Boolean = definedExternally): Node\r\n   fun adoptNode(node: Node): Node\r\n   fun createAttribute(localName: String): Attr\r\n   fun createAttributeNS(namespace: String?, qualifiedName: String): Attr\r\n   fun createEvent(interface_: String): Event\r\n   fun createRange(): Range\r\n   fun createNodeIterator(root: Node, whatToShow: Int = definedExternally, filter: NodeFilter? = definedExternally): NodeIterator\r\n   fun createNodeIterator(root: Node, whatToShow: Int = definedExternally, filter: ((Node) -> Short)? = definedExternally): NodeIterator\r\n   fun createTreeWalker(root: Node, whatToShow: Int = definedExternally, filter: NodeFilter? = definedExternally): TreeWalker\r\n   fun createTreeWalker(root: Node, whatToShow: Int = definedExternally, filter: ((Node) -> Short)? = definedExternally): TreeWalker\r\n   fun elementFromPoint(x: Double, y: Double): Element?\r\n   fun elementsFromPoint(x: Double, y: Double): Array<Element>\r\n   fun caretPositionFromPoint(x: Double, y: Double): CaretPosition?\r\n   override fun getElementById(elementId: String): Element?\r\n   override fun prepend(vararg nodes: dynamic): Unit\r\n   override fun append(vararg nodes: dynamic): Unit\r\n   override fun querySelector(selectors: String): Element?\r\n   override fun querySelectorAll(selectors: String): NodeList\r\n   override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\r\n   override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\r\n   override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\r\n   override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun Document.get(name: String): dynamic = asDynamic()[name]\r\n\r\n/**\r\n * Exposes the JavaScript [Window](https://developer.mozilla.org/en/docs/Web/API/Window) to Kotlin\r\n */\r\npublic external abstract class Window : EventTarget, GlobalEventHandlers, WindowEventHandlers,

WindowOrWorkerGlobalScope, WindowSessionStorage, WindowLocalStorage, GlobalPerformance, UnionMessagePortOrWindow {\r\n override val performance: Performance\r\n open val window: Window\r\n open val self: Window\r\n open val document: Document\r\n open var name: String\r\n open val location: Location\r\n open val history: History\r\n open val customElements: CustomElementRegistry\r\n open val locationbar: BarProp\r\n open val menubar: BarProp\r\n open val personalbar: BarProp\r\n open val scrollbars: BarProp\r\n open val statusbar: BarProp\r\n open val toolbar: BarProp\r\n open var status: String\r\n open val closed: Boolean\r\n open val frames: Window\r\n open val length: Int\r\n open val top: Window\r\n open var opener: Any?\r\n open val parent: Window\r\n open val frameElement: Element?\r\n open val navigator: Navigator\r\n open val applicationCache: ApplicationCache\r\n open val external: External\r\n open val screen: Screen\r\n open val innerWidth: Int\r\n open val innerHeight: Int\r\n open val scrollX: Double\r\n open val pageXOffset: Double\r\n open val scrollY: Double\r\n open val pageYOffset: Double\r\n open val screenX: Int\r\n open val screenY: Int\r\n open val outerWidth: Int\r\n open val outerHeight: Int\r\n open val devicePixelRatio: Double\r\n fun close(): Unit\r\n fun stop(): Unit\r\n fun focus(): Unit\r\n fun blur(): Unit\r\n fun open(url: String = definedExternally, target: String = definedExternally, features: String = definedExternally): Window?\r\n fun alert(): Unit\r\n fun alert(message: String): Unit\r\n fun confirm(message: String = definedExternally): Boolean\r\n fun prompt(message: String = definedExternally, default: String = definedExternally): String?\r\n fun print(): Unit\r\n fun requestAnimationFrame(callback: (Double) -> Unit): Int\r\n fun cancelAnimationFrame(handle: Int): Unit\r\n fun postMessage(message: Any?, targetOrigin: String, transfer: Array<dynamic> = definedExternally): Unit\r\n fun captureEvents(): Unit\r\n fun releaseEvents(): Unit\r\n fun matchMedia(query: String): MediaQueryList\r\n fun moveTo(x: Int, y: Int): Unit\r\n fun moveBy(x: Int, y: Int): Unit\r\n fun resizeTo(x: Int, y: Int): Unit\r\n fun resizeBy(x: Int, y: Int): Unit\r\n fun scroll(options: ScrollToOptions = definedExternally): Unit\r\n fun scroll(x: Double, y: Double): Unit\r\n fun scrollTo(options: ScrollToOptions = definedExternally): Unit\r\n fun scrollTo(x: Double, y: Double): Unit\r\n fun scrollBy(options: ScrollToOptions = definedExternally): Unit\r\n fun scrollBy(x: Double, y: Double): Unit\r\n fun getComputedStyle(elt: Element, pseudoElt: String? = definedExternally): CSSStyleDeclaration\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun Window.get(name: String): dynamic = asDynamic()[name]\r\n\r\npublic external abstract class HTMLAllCollection {\r\n open val length: Int\r\n// fun namedItem(name: String): UnionElementOrHTMLCollection?\r\n fun item(nameOrIndex: String = definedExternally): UnionElementOrHTMLCollection?\r\n}\r\n//@kotlin.internal.InlineOnly inline operator fun HTMLAllCollection.get(index: Int): Element? = asDynamic()[index]\r\n//@kotlin.internal.InlineOnly inline operator fun HTMLAllCollection.get(name: String): UnionElementOrHTMLCollection? = asDynamic()[name]\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLFormControlsCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLFormControlsCollection) to Kotlin\r\n */\r\npublic external abstract class HTMLFormControlsCollection : HTMLCollection {\r\n// override fun namedItem(name: String): UnionElementOrRadioNodeList?\r\n}\r\n//@kotlin.internal.InlineOnly override inline operator fun HTMLFormControlsCollection.get(name: String): UnionElementOrRadioNodeList? = asDynamic()[name]\r\n\r\n/**\r\n * Exposes the JavaScript [RadioNodeList](https://developer.mozilla.org/en/docs/Web/API/RadioNodeList) to Kotlin\r\n */\r\npublic external abstract class RadioNodeList : NodeList, UnionElementOrRadioNodeList {\r\n open var value: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLOptionsCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLOptionsCollection) to Kotlin\r\n */\r\npublic external abstract class HTMLOptionsCollection : HTMLCollection {\r\n override var length: Int\r\n open var selectedIndex: Int\r\n fun add(element: UnionHTMLOptGroupElementOrHTMLOptionElement, before: dynamic = definedExternally): Unit\r\n fun remove(index: Int): Unit\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun HTMLOptionsCollection.set(index: Int, option: HTMLOptionElement?): Unit { asDynamic()[index] = option; }\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLElement](https://developer.mozilla.org/en/docs/Web/API/HTMLElement) to Kotlin\r\n */\r\npublic external abstract class HTMLElement : Element, ElementCSSInlineStyle, GlobalEventHandlers,

DocumentAndElementEventHandlers, ElementContentEditable {\r\n   open var title: String\r\n   open var lang: String\r\n   open var translate: Boolean\r\n   open var dir: String\r\n   open val dataset: DOMStringMap\r\n   open var hidden: Boolean\r\n   open var tabIndex: Int\r\n   open var accessKey: String\r\n   open val accessKeyLabel: String\r\n   open var draggable: Boolean\r\n   open val dropzone: DOMTokenList\r\n   open var contextMenu: HTMLMenuElement?\r\n   open var spellcheck: Boolean\r\n   open var innerText: String\r\n   open val offsetParent: Element?\r\n   open val offsetTop: Int\r\n   open val offsetLeft: Int\r\n   open val offsetWidth: Int\r\n   open val offsetHeight: Int\r\n   fun click(): Unit\r\n   fun focus(): Unit\r\n   fun blur(): Unit\r\n   fun forceSpellCheck(): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLUnknownElement](https://developer.mozilla.org/en/docs/Web/API/HTMLUnknownElement) to Kotlin\r\n */\r\npublic external abstract class HTMLUnknownElement : HTMLElement {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [DOMStringMap](https://developer.mozilla.org/en/docs/Web/API/DOMStringMap) to Kotlin\r\n */\r\npublic external abstract class DOMStringMap {\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun DOMStringMap.get(name: String): String? = asDynamic()[name]\r\n@kotlin.internal.InlineOnly inline operator fun DOMStringMap.set(name: String, value: String): Unit { asDynamic()[name] = value; }\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLHtmlElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHtmlElement) to Kotlin\r\n */\r\npublic external abstract class HTMLHtmlElement : HTMLElement {\r\n   open var version: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLHeadElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadElement) to Kotlin\r\n */\r\npublic external abstract class HTMLHeadElement : HTMLElement {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLTitleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTitleElement) to Kotlin\r\n */\r\npublic external abstract class HTMLTitleElement : HTMLElement {\r\n   open var text: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLBaseElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBaseElement) to Kotlin\r\n */\r\npublic external abstract class HTMLBaseElement : HTMLElement {\r\n   open var href: String\r\n   open var target: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLLinkElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLinkElement) to Kotlin\r\n */\r\npublic external abstract class HTMLLinkElement : HTMLElement, LinkStyle {\r\n   open var scope: String\r\n   open var workerType: WorkerType\r\n   open var href: String\r\n   open var crossOrigin: String?\r\n   open var rel: String\r\n   @JsName(\"as\") open var as_: RequestDestination\r\n   open val relList: DOMTokenList\r\n   open var media: String\r\n   open var nonce: String\r\n   open var hreflang: String\r\n   open var type: String\r\n   open val sizes: DOMTokenList\r\n   open var referrerPolicy: String\r\n   open var charset: String\r\n   open var rev: String\r\n   open var target: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLMetaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMetaElement) to Kotlin\r\n */\r\npublic external abstract class HTMLMetaElement : HTMLElement {\r\n   open var name: String\r\n   open var httpEquiv: String\r\n   open var content: String\r\n   open var scheme: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLStyleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLStyleElement) to Kotlin\r\n */\r\npublic external abstract class HTMLStyleElement : HTMLElement, LinkStyle {\r\n   open var media: String\r\n   open var nonce: String\r\n   open var type: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLBodyElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBodyElement) to Kotlin\r\n */\r\npublic external abstract class HTMLBodyElement : HTMLElement, WindowEventHandlers {\r\n   open var text: String\r\n   open var link: String\r\n   open var vLink: String\r\n   open var aLink: String\r\n   open var bgColor: String\r\n   open var background: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLHeadingElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadingElement) to Kotlin\r\n */\r\npublic external abstract class HTMLHeadingElement : HTMLElement {\r\n   open var align: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLParagraphElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParagraphElement) to Kotlin\r\n */\r\npublic external abstract class HTMLParagraphElement : HTMLElement {\r\n   open var align: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript

[HTMLHRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHRElement) to Kotlin\r\n */\r\npublic external abstract class HTMLHRElement : HTMLElement {\r\n   open var align: String\r\n   open var color: String\r\n   open var noShade: Boolean\r\n   open var size: String\r\n   open var width: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLPreElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPreElement) to Kotlin\r\n */\r\npublic external abstract class HTMLPreElement : HTMLElement {\r\n   open var width: Int\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLQuoteElement](https://developer.mozilla.org/en/docs/Web/API/HTMLQuoteElement) to Kotlin\r\n */\r\npublic external abstract class HTMLQuoteElement : HTMLElement {\r\n   open var cite: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLOListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOListElement) to Kotlin\r\n */\r\npublic external abstract class HTMLOListElement : HTMLElement {\r\n   open var reversed: Boolean\r\n   open var start: Int\r\n   open var type: String\r\n   open var compact: Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLUListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLUListElement) to Kotlin\r\n */\r\npublic external abstract class HTMLUListElement : HTMLElement {\r\n   open var compact: Boolean\r\n   open var type: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLLIElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLIElement) to Kotlin\r\n */\r\npublic external abstract class HTMLLIElement : HTMLElement {\r\n   open var value: Int\r\n   open var type: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLDListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDListElement) to Kotlin\r\n */\r\npublic external abstract class HTMLDListElement : HTMLElement {\r\n   open var compact: Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLDivElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDivElement) to Kotlin\r\n */\r\npublic external abstract class HTMLDivElement : HTMLElement {\r\n   open var align: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLAnchorElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAnchorElement) to Kotlin\r\n */\r\npublic external abstract class HTMLAnchorElement : HTMLElement, HTMLHyperlinkElementUtils {\r\n   open var target: String\r\n   open var download: String\r\n   open var ping: String\r\n   open var rel: String\r\n   open val relList: DOMTokenList\r\n   open var hreflang: String\r\n   open var type: String\r\n   open var text: String\r\n   open var referrerPolicy: String\r\n   open var coords: String\r\n   open var charset: String\r\n   open var name: String\r\n   open var rev: String\r\n   open var shape: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLDataElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataElement) to Kotlin\r\n */\r\npublic external abstract class HTMLDataElement : HTMLElement {\r\n   open var value: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLTimeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTimeElement) to Kotlin\r\n */\r\npublic external abstract class HTMLTimeElement : HTMLElement {\r\n   open var dateTime: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLSpanElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSpanElement) to Kotlin\r\n */\r\npublic external abstract class HTMLSpanElement : HTMLElement {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLBRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBRElement) to Kotlin\r\n */\r\npublic external abstract class HTMLBRElement : HTMLElement {\r\n   open var clear: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLHyperlinkElementUtils](https://developer.mozilla.org/en/docs/Web/API/HTMLHyperlinkElementUtils) to Kotlin\r\n */\r\npublic external interface HTMLHyperlinkElementUtils {\r\n   var href: String\r\n   val origin: String\r\n   var protocol: String\r\n   var username: String\r\n   var password: String\r\n   var host: String\r\n   var hostname: String\r\n   var port: String\r\n   var pathname: String\r\n   var search: String\r\n   var hash: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLModElement](https://developer.mozilla.org/en/docs/Web/API/HTMLModElement) to Kotlin\r\n */\r\npublic external abstract class HTMLModElement : HTMLElement {\r\n   open var cite: String\r\n   open var

dateTime: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLPictureElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPictureElement) to Kotlin\r\n */\r\npublic external abstract class HTMLPictureElement : HTMLElement {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLSourceElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSourceElement) to Kotlin\r\n */\r\npublic external abstract class HTMLSourceElement : HTMLElement {\r\n open var src: String\r\n open var type: String\r\n open var srcset: String\r\n open var sizes: String\r\n open var media: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLImageElement](https://developer.mozilla.org/en/docs/Web/API/HTMLImageElement) to Kotlin\r\n */\r\npublic external abstract class HTMLImageElement : HTMLElement, TexImageSource, HTMLOrSVGImageElement {\r\n open var alt: String\r\n open var src: String\r\n open var srcset: String\r\n open var sizes: String\r\n open var crossOrigin: String?\r\n open var useMap: String\r\n open var isMap: Boolean\r\n open var width: Int\r\n open var height: Int\r\n open val naturalWidth: Int\r\n open val naturalHeight: Int\r\n open val complete: Boolean\r\n open val currentSrc: String\r\n open var referrerPolicy: String\r\n open var name: String\r\n open var lowsrc: String\r\n open var align: String\r\n open var hspace: Int\r\n open var vspace: Int\r\n open var longDesc: String\r\n open var border: String\r\n open val x: Int\r\n open val y: Int\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Image](https://developer.mozilla.org/en/docs/Web/API/Image) to Kotlin\r\n */\r\npublic external open class Image(width: Int = definedExternally, height: Int = definedExternally) : HTMLImageElement {\r\n override val children: HTMLCollection\r\n override val firstElementChild: Element?\r\n override val lastElementChild: Element?\r\n override val childElementCount: Int\r\n override val previousElementSibling: Element?\r\n override val nextElementSibling: Element?\r\n override val assignedSlot: HTMLSlotElement?\r\n override val style: CSSStyleDeclaration\r\n override var ongotpointercapture: ((PointerEvent) -> dynamic)?\r\n override var onlostpointercapture: ((PointerEvent) -> dynamic)?\r\n override var onpointerdown: ((PointerEvent) -> dynamic)?\r\n override var onpointermove: ((PointerEvent) -> dynamic)?\r\n override var onpointerup: ((PointerEvent) -> dynamic)?\r\n override var onpointercancel: ((PointerEvent) -> dynamic)?\r\n override var onpointerover: ((PointerEvent) -> dynamic)?\r\n override var onpointerout: ((PointerEvent) -> dynamic)?\r\n override var onpointerenter: ((PointerEvent) -> dynamic)?\r\n override var onpointerleave: ((PointerEvent) -> dynamic)?\r\n override var onabort: ((Event) -> dynamic)?\r\n override var onblur: ((FocusEvent) -> dynamic)?\r\n override var oncancel: ((Event) -> dynamic)?\r\n override var oncanplay: ((Event) -> dynamic)?\r\n override var oncanplaythrough: ((Event) -> dynamic)?\r\n override var onchange: ((Event) -> dynamic)?\r\n override var onclick: ((MouseEvent) -> dynamic)?\r\n override var onclose: ((Event) -> dynamic)?\r\n override var oncontextmenu: ((MouseEvent) -> dynamic)?\r\n override var oncuechange: ((Event) -> dynamic)?\r\n override var ondblclick: ((MouseEvent) -> dynamic)?\r\n override var ondrag: ((DragEvent) -> dynamic)?\r\n override var ondragend: ((DragEvent) -> dynamic)?\r\n override var ondragenter: ((DragEvent) -> dynamic)?\r\n override var ondragexit: ((DragEvent) -> dynamic)?\r\n override var ondragleave: ((DragEvent) -> dynamic)?\r\n override var ondragover: ((DragEvent) -> dynamic)?\r\n override var ondragstart: ((DragEvent) -> dynamic)?\r\n override var ondrop: ((DragEvent) -> dynamic)?\r\n override var ondurationchange: ((Event) -> dynamic)?\r\n override var onemptied: ((Event) -> dynamic)?\r\n override var onended: ((Event) -> dynamic)?\r\n override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\r\n override var onfocus: ((FocusEvent) -> dynamic)?\r\n override var oninput: ((InputEvent) -> dynamic)?\r\n override var oninvalid: ((Event) -> dynamic)?\r\n override var onkeydown: ((KeyboardEvent) -> dynamic)?\r\n override var onkeypress: ((KeyboardEvent) -> dynamic)?\r\n override var onkeyup: ((KeyboardEvent) -> dynamic)?\r\n override var onload: ((Event) -> dynamic)?\r\n override var onloadeddata: ((Event) -> dynamic)?\r\n override var onloadedmetadata: ((Event) -> dynamic)?\r\n override var onloadend: ((Event) -> dynamic)?\r\n override var onloadstart: ((ProgressEvent) -> dynamic)?\r\n override var onmousedown: ((MouseEvent) -> dynamic)?\r\n override var onmouseenter: ((MouseEvent) -> dynamic)?\r\n override var onmouseleave: ((MouseEvent) -> dynamic)?\r\n override var onmousemove: ((MouseEvent) -> dynamic)?\r\n override var onmouseout: ((MouseEvent) -> dynamic)?\r\n override var onmouseover: ((MouseEvent) -> dynamic)?\r\n override var

onmouseup: ((MouseEvent) -> dynamic)?\r\n   override var onwheel: ((WheelEvent) -> dynamic)?\r\n   override var onpause: ((Event) -> dynamic)?\r\n   override var onplay: ((Event) -> dynamic)?\r\n   override var onplaying: ((Event) -> dynamic)?\r\n   override var onprogress: ((ProgressEvent) -> dynamic)?\r\n   override var onratechange: ((Event) -> dynamic)?\r\n   override var onreset: ((Event) -> dynamic)?\r\n   override var onresize: ((Event) -> dynamic)?\r\n   override var onscroll: ((Event) -> dynamic)?\r\n   override var onseeked: ((Event) -> dynamic)?\r\n   override var onseeking: ((Event) -> dynamic)?\r\n   override var onselect: ((Event) -> dynamic)?\r\n   override var onshow: ((Event) -> dynamic)?\r\n   override var onstalled: ((Event) -> dynamic)?\r\n   override var onsubmit: ((Event) -> dynamic)?\r\n   override var onsuspend: ((Event) -> dynamic)?\r\n   override var ontimeupdate: ((Event) -> dynamic)?\r\n   override var ontoggle: ((Event) -> dynamic)?\r\n   override var onvolumechange: ((Event) -> dynamic)?\r\n   override var onwaiting: ((Event) -> dynamic)?\r\n   override var oncopy: ((ClipboardEvent) -> dynamic)?\r\n   override var oncut: ((ClipboardEvent) -> dynamic)?\r\n   override var onpaste: ((ClipboardEvent) -> dynamic)?\r\n   override var contentEditable: String\r\n   override val isContentEditable: Boolean\r\n   override fun prepend(vararg nodes: dynamic): Unit\r\n   override fun append(vararg nodes: dynamic): Unit\r\n   override fun querySelector(selectors: String): Element?\r\n   override fun querySelectorAll(selectors: String): NodeList\r\n   override fun before(vararg nodes: dynamic): Unit\r\n   override fun after(vararg nodes: dynamic): Unit\r\n   override fun replaceWith(vararg nodes: dynamic): Unit\r\n   override fun remove(): Unit\r\n   override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\r\n   override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\r\n   override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\r\n   override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLIFrameElement](https://developer.mozilla.org/en/docs/Web/API/HTMLIFrameElement) to Kotlin\r\n */\r\npublic external abstract class HTMLIFrameElement : HTMLElement {\r\n   open var src: String\r\n   open var srcdoc: String\r\n   open var name: String\r\n   open val sandbox: DOMTokenList\r\n   open var allowFullscreen: Boolean\r\n   open var allowUserMedia: Boolean\r\n   open var width: String\r\n   open var height: String\r\n   open var referrerPolicy: String\r\n   open val contentDocument: Document?\r\n   open val contentWindow: Window?\r\n   open var align: String\r\n   open var scrolling: String\r\n   open var frameBorder: String\r\n   open var longDesc: String\r\n   open var marginHeight: String\r\n   open var marginWidth: String\r\n   fun getSVGDocument(): Document?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLEmbedElement](https://developer.mozilla.org/en/docs/Web/API/HTMLEmbedElement) to Kotlin\r\n */\r\npublic external abstract class HTMLEmbedElement : HTMLElement {\r\n   open var src: String\r\n   open var type: String\r\n   open var width: String\r\n   open var height: String\r\n   open var align: String\r\n   open var name: String\r\n   fun getSVGDocument(): Document?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLObjectElement](https://developer.mozilla.org/en/docs/Web/API/HTMLObjectElement) to Kotlin\r\n */\r\npublic external abstract class HTMLObjectElement : HTMLElement {\r\n   open var data: String\r\n   open var type: String\r\n   open var typeMustMatch: Boolean\r\n   open var name: String\r\n   open var useMap: String\r\n   open val form: HTMLFormElement?\r\n   open var width: String\r\n   open var height: String\r\n   open val contentDocument: Document?\r\n   open val contentWindow: Window?\r\n   open val willValidate: Boolean\r\n   open val validity: ValidityState\r\n   open val validationMessage: String\r\n   open var align: String\r\n   open var archive: String\r\n   open var code: String\r\n   open var declare: Boolean\r\n   open var hspace: Int\r\n   open var standby: String\r\n   open var vspace: Int\r\n   open var codeBase: String\r\n   open var codeType: String\r\n   open var border: String\r\n   fun getSVGDocument(): Document?\r\n   fun checkValidity(): Boolean\r\n   fun reportValidity(): Boolean\r\n   fun setCustomValidity(error: String): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLParamElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParamElement) to Kotlin\r\n */\r\npublic external abstract class HTMLParamElement : HTMLElement {\r\n   open var name: String\r\n   open var value: String\r\n   open var type: String\r\n   open var valueType: String\r\n}\r\n\r\n/**\r\n * Exposes the

JavaScript [HTMLVideoElement](https://developer.mozilla.org/en/docs/Web/API/HTMLVideoElement) to Kotlin\r\n */\r\npublic external abstract class HTMLVideoElement : HTMLMediaElement, TexImageSource {\r\n open var width: Int\r\n open var height: Int\r\n open val videoWidth: Int\r\n open val videoHeight: Int\r\n open var poster: String\r\n open var playsInline: Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLAudioElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAudioElement) to Kotlin\r\n */\r\npublic external abstract class HTMLAudioElement : HTMLMediaElement {\r\n}\r\n\r\npublic external open class Audio(src: String = definedExternally) : HTMLAudioElement {\r\n override val children: HTMLCollection\r\n override val firstElementChild: Element?\r\n override val lastElementChild: Element?\r\n override val childElementCount: Int\r\n override val previousElementSibling: Element?\r\n override val nextElementSibling: Element?\r\n override val assignedSlot: HTMLSlotElement?\r\n override val style: CSSStyleDeclaration\r\n override var ongotpointercapture: ((PointerEvent) -> dynamic)?\r\n override var onlostpointercapture: ((PointerEvent) -> dynamic)?\r\n override var onpointerdown: ((PointerEvent) -> dynamic)?\r\n override var onpointermove: ((PointerEvent) -> dynamic)?\r\n override var onpointerup: ((PointerEvent) -> dynamic)?\r\n override var onpointercancel: ((PointerEvent) -> dynamic)?\r\n override var onpointerover: ((PointerEvent) -> dynamic)?\r\n override var onpointerout: ((PointerEvent) -> dynamic)?\r\n override var onpointerenter: ((PointerEvent) -> dynamic)?\r\n override var onpointerleave: ((PointerEvent) -> dynamic)?\r\n override var onabort: ((Event) -> dynamic)?\r\n override var onblur: ((FocusEvent) -> dynamic)?\r\n override var oncancel: ((Event) -> dynamic)?\r\n override var oncanplay: ((Event) -> dynamic)?\r\n override var oncanplaythrough: ((Event) -> dynamic)?\r\n override var onchange: ((Event) -> dynamic)?\r\n override var onclick: ((MouseEvent) -> dynamic)?\r\n override var onclose: ((Event) -> dynamic)?\r\n override var oncontextmenu: ((MouseEvent) -> dynamic)?\r\n override var oncuechange: ((Event) -> dynamic)?\r\n override var ondblclick: ((MouseEvent) -> dynamic)?\r\n override var ondrag: ((DragEvent) -> dynamic)?\r\n override var ondragend: ((DragEvent) -> dynamic)?\r\n override var ondragenter: ((DragEvent) -> dynamic)?\r\n override var ondragexit: ((DragEvent) -> dynamic)?\r\n override var ondragleave: ((DragEvent) -> dynamic)?\r\n override var ondragover: ((DragEvent) -> dynamic)?\r\n override var ondragstart: ((DragEvent) -> dynamic)?\r\n override var ondrop: ((DragEvent) -> dynamic)?\r\n override var ondurationchange: ((Event) -> dynamic)?\r\n override var onemptied: ((Event) -> dynamic)?\r\n override var onended: ((Event) -> dynamic)?\r\n override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\r\n override var onfocus: ((FocusEvent) -> dynamic)?\r\n override var oninput: ((InputEvent) -> dynamic)?\r\n override var oninvalid: ((Event) -> dynamic)?\r\n override var onkeydown: ((KeyboardEvent) -> dynamic)?\r\n override var onkeypress: ((KeyboardEvent) -> dynamic)?\r\n override var onkeyup: ((KeyboardEvent) -> dynamic)?\r\n override var onload: ((Event) -> dynamic)?\r\n override var onloadeddata: ((Event) -> dynamic)?\r\n override var onloadedmetadata: ((Event) -> dynamic)?\r\n override var onloadend: ((Event) -> dynamic)?\r\n override var onloadstart: ((ProgressEvent) -> dynamic)?\r\n override var onmousedown: ((MouseEvent) -> dynamic)?\r\n override var onmouseenter: ((MouseEvent) -> dynamic)?\r\n override var onmouseleave: ((MouseEvent) -> dynamic)?\r\n override var onmousemove: ((MouseEvent) -> dynamic)?\r\n override var onmouseout: ((MouseEvent) -> dynamic)?\r\n override var onmouseover: ((MouseEvent) -> dynamic)?\r\n override var onmouseup: ((MouseEvent) -> dynamic)?\r\n override var onwheel: ((WheelEvent) -> dynamic)?\r\n override var onpause: ((Event) -> dynamic)?\r\n override var onplay: ((Event) -> dynamic)?\r\n override var onplaying: ((Event) -> dynamic)?\r\n override var onprogress: ((ProgressEvent) -> dynamic)?\r\n override var onratechange: ((Event) -> dynamic)?\r\n override var onreset: ((Event) -> dynamic)?\r\n override var onresize: ((Event) -> dynamic)?\r\n override var onscroll: ((Event) -> dynamic)?\r\n override var onseeked: ((Event) -> dynamic)?\r\n override var onseeking: ((Event) -> dynamic)?\r\n override var onselect: ((Event) -> dynamic)?\r\n override var onshow: ((Event) -> dynamic)?\r\n override var onstalled: ((Event) -> dynamic)?\r\n override var onsubmit: ((Event) -> dynamic)?\r\n override var onsuspend: ((Event) -> dynamic)?\r\n override var ontimeupdate: ((Event) -> dynamic)?\r\n override var ontoggle: ((Event) -> dynamic)?\r\n override var onvolumechange: ((Event) -> dynamic)?\r\n override var onwaiting: ((Event) -> dynamic)?\r\n override var oncopy: ((ClipboardEvent) -> dynamic)?\r\n override var oncut: ((ClipboardEvent) -> dynamic)?\r\n override

var onpaste: ((ClipboardEvent) -> dynamic)?\r\n   override var contentEditable: String\r\n   override val isContentEditable: Boolean\r\n   override fun prepend(vararg nodes: dynamic): Unit\r\n   override fun append(vararg nodes: dynamic): Unit\r\n   override fun querySelector(selectors: String): Element?\r\n   override fun querySelectorAll(selectors: String): NodeList\r\n   override fun before(vararg nodes: dynamic): Unit\r\n   override fun after(vararg nodes: dynamic): Unit\r\n   override fun replaceWith(vararg nodes: dynamic): Unit\r\n   override fun remove(): Unit\r\n   override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\r\n   override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\r\n   override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\r\n   override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLTrackElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTrackElement) to Kotlin\r\n */\r\npublic external abstract class HTMLTrackElement : HTMLElement {\r\n   open var kind: String\r\n   open var src: String\r\n   open var srclang: String\r\n   open var label: String\r\n   open var default: Boolean\r\n   open val readyState: Short\r\n   open val track: TextTrack\r\n\r\n   companion object {\r\n   val NONE: Short\r\n   val LOADING: Short\r\n   val LOADED: Short\r\n   val ERROR: Short\r\n   }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLMediaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMediaElement) to Kotlin\r\n */\r\npublic external abstract class HTMLMediaElement : HTMLElement {\r\n   open val error: MediaError?\r\n   open var src: String\r\n   open var srcObject: dynamic\r\n   open val currentSrc: String\r\n   open var crossOrigin: String?\r\n   open val networkState: Short\r\n   open var preload: String\r\n   open val buffered: TimeRanges\r\n   open val readyState: Short\r\n   open val seeking: Boolean\r\n   open var currentTime: Double\r\n   open val duration: Double\r\n   open val paused: Boolean\r\n   open var defaultPlaybackRate: Double\r\n   open var playbackRate: Double\r\n   open val played: TimeRanges\r\n   open val seekable: TimeRanges\r\n   open val ended: Boolean\r\n   open var autoplay: Boolean\r\n   open var loop: Boolean\r\n   open var controls: Boolean\r\n   open var volume: Double\r\n   open var muted: Boolean\r\n   open var defaultMuted: Boolean\r\n   open val audioTracks: AudioTrackList\r\n   open val videoTracks: VideoTrackList\r\n   open val textTracks: TextTrackList\r\n   fun load(): Unit\r\n   fun canPlayType(type: String): CanPlayTypeResult\r\n   fun fastSeek(time: Double): Unit\r\n   fun getStartDate(): dynamic\r\n   fun play(): Promise<Unit>\r\n   fun pause(): Unit\r\n   fun addTextTrack(kind: TextTrackKind, label: String = definedExternally, language: String = definedExternally): TextTrack\r\n\r\n   companion object {\r\n   val NETWORK_EMPTY: Short\r\n   val NETWORK_IDLE: Short\r\n   val NETWORK_LOADING: Short\r\n   val NETWORK_NO_SOURCE: Short\r\n   val HAVE_NOTHING: Short\r\n   val HAVE_METADATA: Short\r\n   val HAVE_CURRENT_DATA: Short\r\n   val HAVE_FUTURE_DATA: Short\r\n   val HAVE_ENOUGH_DATA: Short\r\n   }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [MediaError](https://developer.mozilla.org/en/docs/Web/API/MediaError) to Kotlin\r\n */\r\npublic external abstract class MediaError {\r\n   open val code: Short\r\n\r\n   companion object {\r\n   val MEDIA_ERR_ABORTED: Short\r\n   val MEDIA_ERR_NETWORK: Short\r\n   val MEDIA_ERR_DECODE: Short\r\n   val MEDIA_ERR_SRC_NOT_SUPPORTED: Short\r\n   }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [AudioTrackList](https://developer.mozilla.org/en/docs/Web/API/AudioTrackList) to Kotlin\r\n */\r\npublic external abstract class AudioTrackList : EventTarget {\r\n   open val length: Int\r\n   open var onchange: ((Event) -> dynamic)?\r\n   open var onaddtrack: ((TrackEvent) -> dynamic)?\r\n   open var onremovetrack: ((TrackEvent) -> dynamic)?\r\n   fun getTrackById(id: String): AudioTrack?\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun AudioTrackList.get(index: Int): AudioTrack? = asDynamic()[index]\r\n\r\n/**\r\n * Exposes the JavaScript [AudioTrack](https://developer.mozilla.org/en/docs/Web/API/AudioTrack) to Kotlin\r\n */\r\npublic external abstract class AudioTrack : UnionAudioTrackOrTextTrackOrVideoTrack {\r\n   open val id: String\r\n   open val kind: String\r\n   open val label: String\r\n   open val language: String\r\n   open var enabled: Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript

[VideoTrackList](https://developer.mozilla.org/en/docs/Web/API/VideoTrackList) to Kotlin\r\n */\r\npublic external abstract class VideoTrackList : EventTarget {\r\n   open val length: Int\r\n   open val selectedIndex: Int\r\n   open var onchange: ((Event) -> dynamic)?\r\n   open var onaddtrack: ((TrackEvent) -> dynamic)?\r\n   open var onremovetrack: ((TrackEvent) -> dynamic)?\r\n   fun getTrackById(id: String): VideoTrack?\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun VideoTrackList.get(index: Int): VideoTrack? = asDynamic()[index]\r\n\r\n/**\r\n * Exposes the JavaScript [VideoTrack](https://developer.mozilla.org/en/docs/Web/API/VideoTrack) to Kotlin\r\n */\r\npublic external abstract class VideoTrack : UnionAudioTrackOrTextTrackOrVideoTrack {\r\n   open val id: String\r\n   open val kind: String\r\n   open val label: String\r\n   open val language: String\r\n   open var selected: Boolean\r\n}\r\n\r\npublic external abstract class TextTrackList : EventTarget {\r\n   open val length: Int\r\n   open var onchange: ((Event) -> dynamic)?\r\n   open var onaddtrack: ((TrackEvent) -> dynamic)?\r\n   open var onremovetrack: ((TrackEvent) -> dynamic)?\r\n   fun getTrackById(id: String): TextTrack?\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun TextTrackList.get(index: Int): TextTrack? = asDynamic()[index]\r\n\r\n/**\r\n * Exposes the JavaScript [TextTrack](https://developer.mozilla.org/en/docs/Web/API/TextTrack) to Kotlin\r\n */\r\npublic external abstract class TextTrack : EventTarget, UnionAudioTrackOrTextTrackOrVideoTrack {\r\n   open val kind: TextTrackKind\r\n   open val label: String\r\n   open val language: String\r\n   open val id: String\r\n   open val inBandMetadataTrackDispatchType: String\r\n   open var mode: TextTrackMode\r\n   open val cues: TextTrackCueList?\r\n   open val activeCues: TextTrackCueList?\r\n   open var oncuechange: ((Event) -> dynamic)?\r\n   fun addCue(cue: TextTrackCue): Unit\r\n   fun removeCue(cue: TextTrackCue): Unit\r\n}\r\n\r\npublic external abstract class TextTrackCueList {\r\n   open val length: Int\r\n   fun getCueById(id: String): TextTrackCue?\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun TextTrackCueList.get(index: Int): TextTrackCue? = asDynamic()[index]\r\n\r\n/**\r\n * Exposes the JavaScript [TextTrackCue](https://developer.mozilla.org/en/docs/Web/API/TextTrackCue) to Kotlin\r\n */\r\npublic external abstract class TextTrackCue : EventTarget {\r\n   open val track: TextTrack?\r\n   open var id: String\r\n   open var startTime: Double\r\n   open var endTime: Double\r\n   open var pauseOnExit: Boolean\r\n   open var onenter: ((Event) -> dynamic)?\r\n   open var onexit: ((Event) -> dynamic)?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [TimeRanges](https://developer.mozilla.org/en/docs/Web/API/TimeRanges) to Kotlin\r\n */\r\npublic external abstract class TimeRanges {\r\n   open val length: Int\r\n   fun start(index: Int): Double\r\n   fun end(index: Int): Double\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [TrackEvent](https://developer.mozilla.org/en/docs/Web/API/TrackEvent) to Kotlin\r\n */\r\npublic external open class TrackEvent(type: String, eventInitDict: TrackEventInit = definedExternally) : Event {\r\n   open val track: UnionAudioTrackOrTextTrackOrVideoTrack?\r\n}\r\n\r\npublic external interface TrackEventInit : EventInit {\r\n   var track: UnionAudioTrackOrTextTrackOrVideoTrack? /* = null */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun TrackEventInit(track: UnionAudioTrackOrTextTrackOrVideoTrack? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): TrackEventInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"track\"] = track\r\n   o[\"bubbles\"] = bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLMapElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMapElement) to Kotlin\r\n */\r\npublic external abstract class HTMLMapElement : HTMLElement {\r\n   open var name: String\r\n   open val areas: HTMLCollection\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAreaElement) to Kotlin\r\n */\r\npublic external abstract class HTMLAreaElement : HTMLElement, HTMLHyperlinkElementUtils {\r\n   open var alt: String\r\n   open var coords: String\r\n   open var shape: String\r\n   open var target: String\r\n   open var download: String\r\n   open var ping: String\r\n   open var rel: String\r\n   open val relList: DOMTokenList\r\n   open var referrerPolicy: String\r\n   open var noHref: Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLTableElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableElement) to Kotlin\r\n

*/\r\npublic external abstract class HTMLTableElement : HTMLElement {\r\n open var caption: HTMLTableCaptionElement?\r\n open var tHead: HTMLTableSectionElement?\r\n open var tFoot: HTMLTableSectionElement?\r\n open val tBodies: HTMLCollection\r\n open val rows: HTMLCollection\r\n open var align: String\r\n open var border: String\r\n open var frame: String\r\n open var rules: String\r\n open var summary: String\r\n open var width: String\r\n open var bgColor: String\r\n open var cellPadding: String\r\n open var cellSpacing: String\r\n fun createCaption(): HTMLTableCaptionElement\r\n fun deleteCaption(): Unit\r\n fun createTHead(): HTMLTableSectionElement\r\n fun deleteTHead(): Unit\r\n fun createTFoot(): HTMLTableSectionElement\r\n fun deleteTFoot(): Unit\r\n fun createTBody(): HTMLTableSectionElement\r\n fun insertRow(index: Int = definedExternally): HTMLTableRowElement\r\n fun deleteRow(index: Int): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLTableCaptionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCaptionElement) to Kotlin\r\n */\r\npublic external abstract class HTMLTableCaptionElement : HTMLElement {\r\n open var align: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLTableColElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableColElement) to Kotlin\r\n */\r\npublic external abstract class HTMLTableColElement : HTMLElement {\r\n open var span: Int\r\n open var align: String\r\n open var ch: String\r\n open var chOff: String\r\n open var vAlign: String\r\n open var width: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLTableSectionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableSectionElement) to Kotlin\r\n */\r\npublic external abstract class HTMLTableSectionElement : HTMLElement {\r\n open val rows: HTMLCollection\r\n open var align: String\r\n open var ch: String\r\n open var chOff: String\r\n open var vAlign: String\r\n fun insertRow(index: Int = definedExternally): HTMLElement\r\n fun deleteRow(index: Int): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLTableRowElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableRowElement) to Kotlin\r\n */\r\npublic external abstract class HTMLTableRowElement : HTMLElement {\r\n open val rowIndex: Int\r\n open val sectionRowIndex: Int\r\n open val cells: HTMLCollection\r\n open var align: String\r\n open var ch: String\r\n open var chOff: String\r\n open var vAlign: String\r\n open var bgColor: String\r\n fun insertCell(index: Int = definedExternally): HTMLElement\r\n fun deleteCell(index: Int): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLTableCellElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCellElement) to Kotlin\r\n */\r\npublic external abstract class HTMLTableCellElement : HTMLElement {\r\n open var colSpan: Int\r\n open var rowSpan: Int\r\n open var headers: String\r\n open val cellIndex: Int\r\n open var scope: String\r\n open var abbr: String\r\n open var align: String\r\n open var axis: String\r\n open var height: String\r\n open var width: String\r\n open var ch: String\r\n open var chOff: String\r\n open var noWrap: Boolean\r\n open var vAlign: String\r\n open var bgColor: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLFormElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFormElement) to Kotlin\r\n */\r\npublic external abstract class HTMLFormElement : HTMLElement {\r\n open var acceptCharset: String\r\n open var action: String\r\n open var autocomplete: String\r\n open var enctype: String\r\n open var encoding: String\r\n open var method: String\r\n open var name: String\r\n open var noValidate: Boolean\r\n open var target: String\r\n open val elements: HTMLFormControlsCollection\r\n open val length: Int\r\n fun submit(): Unit\r\n fun reset(): Unit\r\n fun checkValidity(): Boolean\r\n fun reportValidity(): Boolean\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun HTMLFormElement.get(index: Int): Element? = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun HTMLFormElement.get(name: String): UnionElementOrRadioNodeList? = asDynamic()[name]\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLLabelElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLabelElement) to Kotlin\r\n */\r\npublic external abstract class HTMLLabelElement : HTMLElement {\r\n open val form: HTMLFormElement?\r\n open var htmlFor: String\r\n open val control: HTMLElement?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLInputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLInputElement) to Kotlin\r\n */\r\npublic external abstract class HTMLInputElement : HTMLElement {\r\n open var accept:

String\r\n open var alt: String\r\n open var autocomplete: String\r\n open var autofocus: Boolean\r\n open var defaultChecked: Boolean\r\n open var checked: Boolean\r\n open var dirName: String\r\n open var disabled: Boolean\r\n open val form: HTMLFormElement?\r\n open val files: FileList?\r\n open var formAction: String\r\n open var formEnctype: String\r\n open var formMethod: String\r\n open var formNoValidate: Boolean\r\n open var formTarget: String\r\n open var height: Int\r\n open var indeterminate: Boolean\r\n open var inputMode: String\r\n open val list: HTMLElement?\r\n open var max: String\r\n open var maxLength: Int\r\n open var min: String\r\n open var minLength: Int\r\n open var multiple: Boolean\r\n open var name: String\r\n open var pattern: String\r\n open var placeholder: String\r\n open var readOnly: Boolean\r\n open var required: Boolean\r\n open var size: Int\r\n open var src: String\r\n open var step: String\r\n open var type: String\r\n open var defaultValue: String\r\n open var value: String\r\n open var valueAsDate: dynamic\r\n open var valueAsNumber: Double\r\n open var width: Int\r\n open val willValidate: Boolean\r\n open val validity: ValidityState\r\n open val validationMessage: String\r\n open val labels: NodeList\r\n open var selectionStart: Int?\r\n open var selectionEnd: Int?\r\n open var selectionDirection: String?\r\n open var align: String\r\n open var useMap: String\r\n fun stepUp(n: Int = definedExternally): Unit\r\n fun stepDown(n: Int = definedExternally): Unit\r\n fun checkValidity(): Boolean\r\n fun reportValidity(): Boolean\r\n fun setCustomValidity(error: String): Unit\r\n fun select(): Unit\r\n fun setRangeText(replacement: String): Unit\r\n fun setRangeText(replacement: String, start: Int, end: Int, selectionMode: SelectionMode = definedExternally): Unit\r\n fun setSelectionRange(start: Int, end: Int, direction: String = definedExternally): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLButtonElement](https://developer.mozilla.org/en/docs/Web/API/HTMLButtonElement) to Kotlin\r\n */\r\npublic external abstract class HTMLButtonElement : HTMLElement {\r\n open var autofocus: Boolean\r\n open var disabled: Boolean\r\n open val form: HTMLFormElement?\r\n open var formAction: String\r\n open var formEnctype: String\r\n open var formMethod: String\r\n open var formNoValidate: Boolean\r\n open var formTarget: String\r\n open var name: String\r\n open var type: String\r\n open var value: String\r\n open var menu: HTMLMenuElement?\r\n open val willValidate: Boolean\r\n open val validity: ValidityState\r\n open val validationMessage: String\r\n open val labels: NodeList\r\n fun checkValidity(): Boolean\r\n fun reportValidity(): Boolean\r\n fun setCustomValidity(error: String): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLSelectElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSelectElement) to Kotlin\r\n */\r\npublic external abstract class HTMLSelectElement : HTMLElement, ItemArrayLike<Element> {\r\n open var autocomplete: String\r\n open var autofocus: Boolean\r\n open var disabled: Boolean\r\n open val form: HTMLFormElement?\r\n open var multiple: Boolean\r\n open var name: String\r\n open var required: Boolean\r\n open var size: Int\r\n open val type: String\r\n open val options: HTMLOptionsCollection\r\n override var length: Int\r\n open val selectedOptions: HTMLCollection\r\n open var selectedIndex: Int\r\n open var value: String\r\n open val willValidate: Boolean\r\n open val validity: ValidityState\r\n open val validationMessage: String\r\n open val labels: NodeList\r\n override fun item(index: Int): Element?\r\n fun namedItem(name: String): HTMLOptionElement?\r\n fun add(element: UnionHTMLOptGroupElementOrHTMLOptionElement, before: dynamic = definedExternally): Unit\r\n fun remove(index: Int): Unit\r\n fun checkValidity(): Boolean\r\n fun reportValidity(): Boolean\r\n fun setCustomValidity(error: String): Unit\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun HTMLSelectElement.get(index: Int): Element? = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun HTMLSelectElement.set(index: Int, option: HTMLOptionElement?): Unit { asDynamic()[index] = option; }\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLDataListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataListElement) to Kotlin\r\n */\r\npublic external abstract class HTMLDataListElement : HTMLElement {\r\n open val options: HTMLCollection\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLOptGroupElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptGroupElement) to Kotlin\r\n */\r\npublic external abstract class HTMLOptGroupElement : HTMLElement, UnionHTMLOptGroupElementOrHTMLOptionElement {\r\n open var disabled: Boolean\r\n open var label:

String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLOptionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptionElement) to Kotlin\r\n */\r\npublic external abstract class HTMLOptionElement : HTMLElement, UnionHTMLOptGroupElementOrHTMLOptionElement {\r\n   open var disabled: Boolean\r\n   open val form: HTMLFormElement?\r\n   open var label: String\r\n   open var defaultSelected: Boolean\r\n   open var selected: Boolean\r\n   open var value: String\r\n   open var text: String\r\n   open val index: Int\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Option](https://developer.mozilla.org/en/docs/Web/API/Option) to Kotlin\r\n */\r\npublic external open class Option(text: String = definedExternally, value: String = definedExternally, defaultSelected: Boolean = definedExternally, selected: Boolean = definedExternally) : HTMLOptionElement {\r\n   override val children: HTMLCollection\r\n   override val firstElementChild: Element?\r\n   override val lastElementChild: Element?\r\n   override val childElementCount: Int\r\n   override val previousElementSibling: Element?\r\n   override val nextElementSibling: Element?\r\n   override val assignedSlot: HTMLSlotElement?\r\n   override val style: CSSStyleDeclaration\r\n   override var ongotpointercapture: ((PointerEvent) -> dynamic)?\r\n   override var onlostpointercapture: ((PointerEvent) -> dynamic)?\r\n   override var onpointerdown: ((PointerEvent) -> dynamic)?\r\n   override var onpointermove: ((PointerEvent) -> dynamic)?\r\n   override var onpointerup: ((PointerEvent) -> dynamic)?\r\n   override var onpointercancel: ((PointerEvent) -> dynamic)?\r\n   override var onpointerover: ((PointerEvent) -> dynamic)?\r\n   override var onpointerout: ((PointerEvent) -> dynamic)?\r\n   override var onpointerenter: ((PointerEvent) -> dynamic)?\r\n   override var onpointerleave: ((PointerEvent) -> dynamic)?\r\n   override var onabort: ((Event) -> dynamic)?\r\n   override var onblur: ((FocusEvent) -> dynamic)?\r\n   override var oncancel: ((Event) -> dynamic)?\r\n   override var oncanplay: ((Event) -> dynamic)?\r\n   override var oncanplaythrough: ((Event) -> dynamic)?\r\n   override var onchange: ((Event) -> dynamic)?\r\n   override var onclick: ((MouseEvent) -> dynamic)?\r\n   override var onclose: ((Event) -> dynamic)?\r\n   override var oncontextmenu: ((MouseEvent) -> dynamic)?\r\n   override var oncuechange: ((Event) -> dynamic)?\r\n   override var ondblclick: ((MouseEvent) -> dynamic)?\r\n   override var ondrag: ((DragEvent) -> dynamic)?\r\n   override var ondragend: ((DragEvent) -> dynamic)?\r\n   override var ondragenter: ((DragEvent) -> dynamic)?\r\n   override var ondragexit: ((DragEvent) -> dynamic)?\r\n   override var ondragleave: ((DragEvent) -> dynamic)?\r\n   override var ondragover: ((DragEvent) -> dynamic)?\r\n   override var ondragstart: ((DragEvent) -> dynamic)?\r\n   override var ondrop: ((DragEvent) -> dynamic)?\r\n   override var ondurationchange: ((Event) -> dynamic)?\r\n   override var onemptied: ((Event) -> dynamic)?\r\n   override var onended: ((Event) -> dynamic)?\r\n   override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\r\n   override var onfocus: ((FocusEvent) -> dynamic)?\r\n   override var oninput: ((InputEvent) -> dynamic)?\r\n   override var oninvalid: ((Event) -> dynamic)?\r\n   override var onkeydown: ((KeyboardEvent) -> dynamic)?\r\n   override var onkeypress: ((KeyboardEvent) -> dynamic)?\r\n   override var onkeyup: ((KeyboardEvent) -> dynamic)?\r\n   override var onload: ((Event) -> dynamic)?\r\n   override var onloadeddata: ((Event) -> dynamic)?\r\n   override var onloadedmetadata: ((Event) -> dynamic)?\r\n   override var onloadend: ((Event) -> dynamic)?\r\n   override var onloadstart: ((ProgressEvent) -> dynamic)?\r\n   override var onmousedown: ((MouseEvent) -> dynamic)?\r\n   override var onmouseenter: ((MouseEvent) -> dynamic)?\r\n   override var onmouseleave: ((MouseEvent) -> dynamic)?\r\n   override var onmousemove: ((MouseEvent) -> dynamic)?\r\n   override var onmouseout: ((MouseEvent) -> dynamic)?\r\n   override var onmouseover: ((MouseEvent) -> dynamic)?\r\n   override var onmouseup: ((MouseEvent) -> dynamic)?\r\n   override var onwheel: ((WheelEvent) -> dynamic)?\r\n   override var onpause: ((Event) -> dynamic)?\r\n   override var onplay: ((Event) -> dynamic)?\r\n   override var onplaying: ((Event) -> dynamic)?\r\n   override var onprogress: ((ProgressEvent) -> dynamic)?\r\n   override var onratechange: ((Event) -> dynamic)?\r\n   override var onreset: ((Event) -> dynamic)?\r\n   override var onresize: ((Event) -> dynamic)?\r\n   override var onscroll: ((Event) -> dynamic)?\r\n   override var onseeked: ((Event) -> dynamic)?\r\n   override var onseeking: ((Event) -> dynamic)?\r\n   override var onselect: ((Event) -> dynamic)?\r\n   override var onshow: ((Event) -> dynamic)?\r\n   override var onstalled: ((Event) -> dynamic)?\r\n   override var onsubmit: ((Event) -> dynamic)?\r\n   override var onsuspend: ((Event) -> dynamic)?\r\n   override var ontimeupdate: ((Event) -> dynamic)?\r\n   override var ontoggle: ((Event) -> dynamic)?\r\n   override var

onvolumechange: ((Event) -> dynamic)?\r\n   override var onwaiting: ((Event) -> dynamic)?\r\n   override var oncopy: ((ClipboardEvent) -> dynamic)?\r\n   override var oncut: ((ClipboardEvent) -> dynamic)?\r\n   override var onpaste: ((ClipboardEvent) -> dynamic)?\r\n   override var contentEditable: String\r\n   override val isContentEditable: Boolean\r\n   override fun prepend(vararg nodes: dynamic): Unit\r\n   override fun append(vararg nodes: dynamic): Unit\r\n   override fun querySelector(selectors: String): Element?\r\n   override fun querySelectorAll(selectors: String): NodeList\r\n   override fun before(vararg nodes: dynamic): Unit\r\n   override fun after(vararg nodes: dynamic): Unit\r\n   override fun replaceWith(vararg nodes: dynamic): Unit\r\n   override fun remove(): Unit\r\n   override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\r\n   override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\r\n   override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\r\n   override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLTextAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTextAreaElement) to Kotlin\r\n */\r\npublic external abstract class HTMLTextAreaElement : HTMLElement {\r\n   open var autocomplete: String\r\n   open var autofocus: Boolean\r\n   open var cols: Int\r\n   open var dirName: String\r\n   open var disabled: Boolean\r\n   open val form: HTMLFormElement?\r\n   open var inputMode: String\r\n   open var maxLength: Int\r\n   open var minLength: Int\r\n   open var name: String\r\n   open var placeholder: String\r\n   open var readOnly: Boolean\r\n   open var required: Boolean\r\n   open var rows: Int\r\n   open var wrap: String\r\n   open val type: String\r\n   open var defaultValue: String\r\n   open var value: String\r\n   open val textLength: Int\r\n   open val willValidate: Boolean\r\n   open val validity: ValidityState\r\n   open val validationMessage: String\r\n   open val labels: NodeList\r\n   open var selectionStart: Int?\r\n   open var selectionEnd: Int?\r\n   open var selectionDirection: String?\r\n   fun checkValidity(): Boolean\r\n   fun reportValidity(): Boolean\r\n   fun setCustomValidity(error: String): Unit\r\n   fun select(): Unit\r\n   fun setRangeText(replacement: String): Unit\r\n   fun setRangeText(replacement: String, start: Int, end: Int, selectionMode: SelectionMode = definedExternally): Unit\r\n   fun setSelectionRange(start: Int, end: Int, direction: String = definedExternally): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLKeygenElement](https://developer.mozilla.org/en/docs/Web/API/HTMLKeygenElement) to Kotlin\r\n */\r\npublic external abstract class HTMLKeygenElement : HTMLElement {\r\n   open var autofocus: Boolean\r\n   open var challenge: String\r\n   open var disabled: Boolean\r\n   open val form: HTMLFormElement?\r\n   open var keytype: String\r\n   open var name: String\r\n   open val type: String\r\n   open val willValidate: Boolean\r\n   open val validity: ValidityState\r\n   open val validationMessage: String\r\n   open val labels: NodeList\r\n   fun checkValidity(): Boolean\r\n   fun reportValidity(): Boolean\r\n   fun setCustomValidity(error: String): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLOutputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOutputElement) to Kotlin\r\n */\r\npublic external abstract class HTMLOutputElement : HTMLElement {\r\n   open val htmlFor: DOMTokenList\r\n   open val form: HTMLFormElement?\r\n   open var name: String\r\n   open val type: String\r\n   open var defaultValue: String\r\n   open var value: String\r\n   open val willValidate: Boolean\r\n   open val validity: ValidityState\r\n   open val validationMessage: String\r\n   open val labels: NodeList\r\n   fun checkValidity(): Boolean\r\n   fun reportValidity(): Boolean\r\n   fun setCustomValidity(error: String): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLProgressElement](https://developer.mozilla.org/en/docs/Web/API/HTMLProgressElement) to Kotlin\r\n */\r\npublic external abstract class HTMLProgressElement : HTMLElement {\r\n   open var value: Double\r\n   open var max: Double\r\n   open val position: Double\r\n   open val labels: NodeList\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLMeterElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMeterElement) to Kotlin\r\n */\r\npublic external abstract class HTMLMeterElement : HTMLElement {\r\n   open var value: Double\r\n   open var min: Double\r\n   open var max: Double\r\n   open var low: Double\r\n   open var high: Double\r\n   open var optimum: Double\r\n   open val labels: NodeList\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript

[HTMLFieldSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFieldSetElement) to Kotlin\r\n */\r\npublic external abstract class HTMLFieldSetElement : HTMLElement {\r\n open var disabled: Boolean\r\n open val form: HTMLFormElement?\r\n open var name: String\r\n open val type: String\r\n open val elements: HTMLCollection\r\n open val willValidate: Boolean\r\n open val validity: ValidityState\r\n open val validationMessage: String\r\n fun checkValidity(): Boolean\r\n fun reportValidity(): Boolean\r\n fun setCustomValidity(error: String): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLLegendElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLegendElement) to Kotlin\r\n */\r\npublic external abstract class HTMLLegendElement : HTMLElement {\r\n open val form: HTMLFormElement?\r\n open var align: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ValidityState](https://developer.mozilla.org/en/docs/Web/API/ValidityState) to Kotlin\r\n */\r\npublic external abstract class ValidityState {\r\n open val valueMissing: Boolean\r\n open val typeMismatch: Boolean\r\n open val patternMismatch: Boolean\r\n open val tooLong: Boolean\r\n open val tooShort: Boolean\r\n open val rangeUnderflow: Boolean\r\n open val rangeOverflow: Boolean\r\n open val stepMismatch: Boolean\r\n open val badInput: Boolean\r\n open val customError: Boolean\r\n open val valid: Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLDetailsElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDetailsElement) to Kotlin\r\n */\r\npublic external abstract class HTMLDetailsElement : HTMLElement {\r\n open var open: Boolean\r\n}\r\n\r\npublic external abstract class HTMLMenuElement : HTMLElement {\r\n open var type: String\r\n open var label: String\r\n open var compact: Boolean\r\n}\r\n\r\npublic external abstract class HTMLMenuItemElement : HTMLElement {\r\n open var type: String\r\n open var label: String\r\n open var icon: String\r\n open var disabled: Boolean\r\n open var checked: Boolean\r\n open var radiogroup: String\r\n open var default: Boolean\r\n}\r\n\r\npublic external open class RelatedEvent(type: String, eventInitDict: RelatedEventInit = definedExternally) : Event {\r\n open val relatedTarget: EventTarget?\r\n}\r\n\r\npublic external interface RelatedEventInit : EventInit {\r\n var relatedTarget: EventTarget? /* = null */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun RelatedEventInit(relatedTarget: EventTarget? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): RelatedEventInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"relatedTarget\"] = relatedTarget\r\n o[\"bubbles\"] = bubbles\r\n o[\"cancelable\"] = cancelable\r\n o[\"composed\"] = composed\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLDialogElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDialogElement) to Kotlin\r\n */\r\npublic external abstract class HTMLDialogElement : HTMLElement {\r\n open var open: Boolean\r\n open var returnValue: String\r\n fun show(anchor: UnionElementOrMouseEvent = definedExternally): Unit\r\n fun showModal(anchor: UnionElementOrMouseEvent = definedExternally): Unit\r\n fun close(returnValue: String = definedExternally): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLScriptElement](https://developer.mozilla.org/en/docs/Web/API/HTMLScriptElement) to Kotlin\r\n */\r\npublic external abstract class HTMLScriptElement : HTMLElement, HTMLOrSVGScriptElement {\r\n open var src: String\r\n open var type: String\r\n open var charset: String\r\n open var async: Boolean\r\n open var defer: Boolean\r\n open var crossOrigin: String?\r\n open var text: String\r\n open var nonce: String\r\n open var event: String\r\n open var htmlFor: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLTemplateElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTemplateElement) to Kotlin\r\n */\r\npublic external abstract class HTMLTemplateElement : HTMLElement {\r\n open val content: DocumentFragment\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLSlotElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSlotElement) to Kotlin\r\n */\r\npublic external abstract class HTMLSlotElement : HTMLElement {\r\n open var name: String\r\n fun assignedNodes(options: AssignedNodesOptions = definedExternally): Array<Node>\r\n}\r\n\r\npublic external interface AssignedNodesOptions {\r\n var flatten: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun AssignedNodesOptions(flatten: Boolean? = false): AssignedNodesOptions {\r\n val o = js(\"({})\")\r\n\r\n

o[\"flatten\"] = flatten\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLCanvasElement](https://developer.mozilla.org/en/docs/Web/API/HTMLCanvasElement) to Kotlin\r\n */\r\npublic external abstract class HTMLCanvasElement : HTMLElement, TexImageSource {\r\n   open var width: Int\r\n   open var height: Int\r\n   fun getContext(contextId: String, vararg arguments: Any?): RenderingContext?\r\n   fun toDataURL(type: String = definedExternally, quality: Any? = definedExternally): String\r\n   fun toBlob(_callback: (Blob?) -> Unit, type: String = definedExternally, quality: Any? = definedExternally): Unit\r\n}\r\n\r\npublic external interface CanvasRenderingContext2DSettings {\r\n   var alpha: Boolean? /* = true */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun CanvasRenderingContext2DSettings(alpha: Boolean? = true): CanvasRenderingContext2DSettings {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"alpha\"] = alpha\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CanvasRenderingContext2D](https://developer.mozilla.org/en/docs/Web/API/CanvasRenderingContext2D) to Kotlin\r\n */\r\npublic external abstract class CanvasRenderingContext2D : CanvasState, CanvasTransform, CanvasCompositing, CanvasImageSmoothing, CanvasFillStrokeStyles, CanvasShadowStyles, CanvasFilters, CanvasRect, CanvasDrawPath, CanvasUserInterface, CanvasText, CanvasDrawImage, CanvasHitRegion, CanvasImageData, CanvasPathDrawingStyles, CanvasTextDrawingStyles, CanvasPath, RenderingContext {\r\n   open val canvas: HTMLCanvasElement\r\n}\r\n\r\npublic external interface CanvasState {\r\n   fun save(): Unit\r\n   fun restore(): Unit\r\n}\r\n\r\npublic external interface CanvasTransform {\r\n   fun scale(x: Double, y: Double): Unit\r\n   fun rotate(angle: Double): Unit\r\n   fun translate(x: Double, y: Double): Unit\r\n   fun transform(a: Double, b: Double, c: Double, d: Double, e: Double, f: Double): Unit\r\n   fun getTransform(): DOMMatrix\r\n   fun setTransform(a: Double, b: Double, c: Double, d: Double, e: Double, f: Double): Unit\r\n   fun setTransform(transform: dynamic = definedExternally): Unit\r\n   fun resetTransform(): Unit\r\n}\r\n\r\npublic external interface CanvasCompositing {\r\n   var globalAlpha: Double\r\n   var globalCompositeOperation: String\r\n}\r\n\r\npublic external interface CanvasImageSmoothing {\r\n   var imageSmoothingEnabled: Boolean\r\n   var imageSmoothingQuality: ImageSmoothingQuality\r\n}\r\n\r\npublic external interface CanvasFillStrokeStyles {\r\n   var strokeStyle: dynamic\r\n   var fillStyle: dynamic\r\n   fun createLinearGradient(x0: Double, y0: Double, x1: Double, y1: Double): CanvasGradient\r\n   fun createRadialGradient(x0: Double, y0: Double, r0: Double, x1: Double, y1: Double, r1: Double): CanvasGradient\r\n   fun createPattern(image: dynamic, repetition: String): CanvasPattern?\r\n}\r\n\r\npublic external interface CanvasShadowStyles {\r\n   var shadowOffsetX: Double\r\n   var shadowOffsetY: Double\r\n   var shadowBlur: Double\r\n   var shadowColor: String\r\n}\r\n\r\npublic external interface CanvasFilters {\r\n   var filter: String\r\n}\r\n\r\npublic external interface CanvasRect {\r\n   fun clearRect(x: Double, y: Double, w: Double, h: Double): Unit\r\n   fun fillRect(x: Double, y: Double, w: Double, h: Double): Unit\r\n   fun strokeRect(x: Double, y: Double, w: Double, h: Double): Unit\r\n}\r\n\r\npublic external interface CanvasDrawPath {\r\n   fun beginPath(): Unit\r\n   fun fill(fillRule: CanvasFillRule = definedExternally): Unit\r\n   fun fill(path: Path2D, fillRule: CanvasFillRule = definedExternally): Unit\r\n   fun stroke(): Unit\r\n   fun stroke(path: Path2D): Unit\r\n   fun clip(fillRule: CanvasFillRule = definedExternally): Unit\r\n   fun clip(path: Path2D, fillRule: CanvasFillRule = definedExternally): Unit\r\n   fun resetClip(): Unit\r\n   fun isPointInPath(x: Double, y: Double, fillRule: CanvasFillRule = definedExternally): Boolean\r\n   fun isPointInPath(path: Path2D, x: Double, y: Double, fillRule: CanvasFillRule = definedExternally): Boolean\r\n   fun isPointInStroke(x: Double, y: Double): Boolean\r\n   fun isPointInStroke(path: Path2D, x: Double, y: Double): Boolean\r\n}\r\n\r\npublic external interface CanvasUserInterface {\r\n   fun drawFocusIfNeeded(element: Element): Unit\r\n   fun drawFocusIfNeeded(path: Path2D, element: Element): Unit\r\n   fun scrollPathIntoView(): Unit\r\n   fun scrollPathIntoView(path: Path2D): Unit\r\n}\r\n\r\npublic external interface CanvasText {\r\n   fun fillText(text: String, x: Double, y: Double, maxWidth: Double = definedExternally): Unit\r\n   fun strokeText(text: String, x: Double, y: Double, maxWidth: Double = definedExternally): Unit\r\n   fun measureText(text: String): TextMetrics\r\n}\r\n\r\npublic external interface CanvasDrawImage {\r\n   fun drawImage(image: dynamic, dx: Double, dy: Double): Unit\r\n   fun drawImage(image: dynamic, dx: Double, dy: Double, dw: Double, dh: Double): Unit\r\n   fun drawImage(image:

dynamic, sx: Double, sy: Double, sw: Double, sh: Double, dx: Double, dy: Double, dw: Double, dh: Double): Unit\r\n}\r\n\r\npublic external interface CanvasHitRegion {\r\n fun addHitRegion(options: HitRegionOptions = definedExternally): Unit\r\n fun removeHitRegion(id: String): Unit\r\n fun clearHitRegions(): Unit\r\n}\r\n\r\npublic external interface CanvasImageData {\r\n fun createImageData(sw: Double, sh: Double): ImageData\r\n fun createImageData(imagedata: ImageData): ImageData\r\n fun getImageData(sx: Double, sy: Double, sw: Double, sh: Double): ImageData\r\n fun putImageData(imagedata: ImageData, dx: Double, dy: Double): Unit\r\n fun putImageData(imagedata: ImageData, dx: Double, dy: Double, dirtyX: Double, dirtyY: Double, dirtyWidth: Double, dirtyHeight: Double): Unit\r\n}\r\n\r\npublic external interface CanvasPathDrawingStyles {\r\n var lineWidth: Double\r\n var lineCap: CanvasLineCap\r\n var lineJoin: CanvasLineJoin\r\n var miterLimit: Double\r\n var lineDashOffset: Double\r\n fun setLineDash(segments: Array<Double>): Unit\r\n fun getLineDash(): Array<Double>\r\n}\r\n\r\npublic external interface CanvasTextDrawingStyles {\r\n var font: String\r\n var textAlign: CanvasTextAlign\r\n var textBaseline: CanvasTextBaseline\r\n var direction: CanvasDirection\r\n}\r\n\r\npublic external interface CanvasPath {\r\n fun closePath(): Unit\r\n fun moveTo(x: Double, y: Double): Unit\r\n fun lineTo(x: Double, y: Double): Unit\r\n fun quadraticCurveTo(cpx: Double, cpy: Double, x: Double, y: Double): Unit\r\n fun bezierCurveTo(cp1x: Double, cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y: Double): Unit\r\n fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radius: Double): Unit\r\n fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radiusX: Double, radiusY: Double, rotation: Double): Unit\r\n fun rect(x: Double, y: Double, w: Double, h: Double): Unit\r\n fun arc(x: Double, y: Double, radius: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean = definedExternally): Unit\r\n fun ellipse(x: Double, y: Double, radiusX: Double, radiusY: Double, rotation: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean = definedExternally): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CanvasGradient](https://developer.mozilla.org/en/docs/Web/API/CanvasGradient) to Kotlin\r\n */\r\npublic external abstract class CanvasGradient {\r\n fun addColorStop(offset: Double, color: String): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CanvasPattern](https://developer.mozilla.org/en/docs/Web/API/CanvasPattern) to Kotlin\r\n */\r\npublic external abstract class CanvasPattern {\r\n fun setTransform(transform: dynamic = definedExternally): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [TextMetrics](https://developer.mozilla.org/en/docs/Web/API/TextMetrics) to Kotlin\r\n */\r\npublic external abstract class TextMetrics {\r\n open val width: Double\r\n open val actualBoundingBoxLeft: Double\r\n open val actualBoundingBoxRight: Double\r\n open val fontBoundingBoxAscent: Double\r\n open val fontBoundingBoxDescent: Double\r\n open val actualBoundingBoxAscent: Double\r\n open val actualBoundingBoxDescent: Double\r\n open val emHeightAscent: Double\r\n open val emHeightDescent: Double\r\n open val hangingBaseline: Double\r\n open val alphabeticBaseline: Double\r\n open val ideographicBaseline: Double\r\n}\r\n\r\npublic external interface HitRegionOptions {\r\n var path: Path2D? /* = null */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var fillRule: CanvasFillRule? /* = CanvasFillRule.NONZERO */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var id: String? /* = \"\" */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var parentID: String? /* = null */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var cursor: String? /* = \"inherit\" */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var control: Element? /* = null */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var label: String? /* = null */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var role: String? /* = null */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun HitRegionOptions(path: Path2D? = null, fillRule: CanvasFillRule? = CanvasFillRule.NONZERO, id: String? = \"\", parentID: String? = null, cursor: String? = \"inherit\", control: Element? = null, label: String? = null, role: String? = null): HitRegionOptions {\r\n val o = js(\"({})\")\r\n\r\n o[\"path\"] = path\r\n o[\"fillRule\"] = fillRule\r\n o[\"id\"] = id\r\n o[\"parentID\"] = parentID\r\n o[\"cursor\"] = cursor\r\n o[\"control\"] = control\r\n o[\"label\"] = label\r\n o[\"role\"] =

role\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ImageData](https://developer.mozilla.org/en/docs/Web/API/ImageData) to Kotlin\r\n */\r\npublic external open class ImageData : TexImageSource {\r\n   constructor(sw: Int, sh: Int)\r\n   constructor(data: Uint8ClampedArray, sw: Int, sh: Int = definedExternally)\r\n   open val width: Int\r\n   open val height: Int\r\n   open val data: Uint8ClampedArray\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Path2D](https://developer.mozilla.org/en/docs/Web/API/Path2D) to Kotlin\r\n */\r\npublic external open class Path2D() : CanvasPath {\r\n   constructor(path: Path2D)\r\n   constructor(paths: Array<Path2D>, fillRule: CanvasFillRule = definedExternally)\r\n   constructor(d: String)\r\n   fun addPath(path: Path2D, transform: dynamic = definedExternally): Unit\r\n   override fun closePath(): Unit\r\n   override fun moveTo(x: Double, y: Double): Unit\r\n   override fun lineTo(x: Double, y: Double): Unit\r\n   override fun quadraticCurveTo(cpx: Double, cpy: Double, x: Double, y: Double): Unit\r\n   override fun bezierCurveTo(cp1x: Double, cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y: Double): Unit\r\n   override fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radius: Double): Unit\r\n   override fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radiusX: Double, radiusY: Double, rotation: Double): Unit\r\n   override fun rect(x: Double, y: Double, w: Double, h: Double): Unit\r\n   override fun arc(x: Double, y: Double, radius: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean /* = definedExternally */): Unit\r\n   override fun ellipse(x: Double, y: Double, radiusX: Double, radiusY: Double, rotation: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean /* = definedExternally */): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Touch](https://developer.mozilla.org/en/docs/Web/API/Touch) to Kotlin\r\n */\r\npublic external abstract class Touch {\r\n   open val region: String?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ImageBitmapRenderingContext](https://developer.mozilla.org/en/docs/Web/API/ImageBitmapRenderingContext) to Kotlin\r\n */\r\npublic external abstract class ImageBitmapRenderingContext {\r\n   open val canvas: HTMLCanvasElement\r\n   fun transferFromImageBitmap(bitmap: ImageBitmap?): Unit\r\n}\r\n\r\npublic external interface ImageBitmapRenderingContextSettings {\r\n   var alpha: Boolean? /* = true */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ImageBitmapRenderingContextSettings(alpha: Boolean? = true): ImageBitmapRenderingContextSettings {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"alpha\"] = alpha\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CustomElementRegistry](https://developer.mozilla.org/en/docs/Web/API/CustomElementRegistry) to Kotlin\r\n */\r\npublic external abstract class CustomElementRegistry {\r\n   fun define(name: String, constructor: () -> dynamic, options: ElementDefinitionOptions = definedExternally): Unit\r\n   fun get(name: String): Any?\r\n   fun whenDefined(name: String): Promise<Unit>\r\n}\r\n\r\npublic external interface ElementDefinitionOptions {\r\n   var extends: String?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ElementDefinitionOptions(extends: String? = undefined): ElementDefinitionOptions {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"extends\"] = extends\r\n\r\n   return o\r\n}\r\n\r\npublic external interface ElementContentEditable {\r\n   var contentEditable: String\r\n   val isContentEditable: Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [DataTransfer](https://developer.mozilla.org/en/docs/Web/API/DataTransfer) to Kotlin\r\n */\r\npublic external abstract class DataTransfer {\r\n   open var dropEffect: String\r\n   open var effectAllowed: String\r\n   open val items: DataTransferItemList\r\n   open val types: Array<out String>\r\n   open val files: FileList\r\n   fun setDragImage(image: Element, x: Int, y: Int): Unit\r\n   fun getData(format: String): String\r\n   fun setData(format: String, data: String): Unit\r\n   fun clearData(format: String = definedExternally): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [DataTransferItemList](https://developer.mozilla.org/en/docs/Web/API/DataTransferItemList) to Kotlin\r\n */\r\npublic external abstract class DataTransferItemList {\r\n   open val length: Int\r\n   fun add(data: String, type: String): DataTransferItem?\r\n   fun add(data: File): DataTransferItem?\r\n   fun remove(index: Int): Unit\r\n   fun clear(): Unit\r\n}\r\n\r\n@kotlin.internal.InlineOnly\ninline operator fun DataTransferItemList.get(index: Int): DataTransferItem? = asDynamic()[index]\r\n\r\n/**\r\n * Exposes the JavaScript [DataTransferItem](https://developer.mozilla.org/en/docs/Web/API/DataTransferItem) to Kotlin\r\n */\r\npublic external abstract class DataTransferItem {\r\n   open val kind: String\r\n   open val type: String\r\n   fun

getAsString(_callback: ((String) -> Unit)?): Unit\r\n   fun getAsFile(): File?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [DragEvent](https://developer.mozilla.org/en/docs/Web/API/DragEvent) to Kotlin\r\n */\r\npublic external open class DragEvent(type: String, eventInitDict: DragEventInit = definedExternally) : MouseEvent {\r\n   open val dataTransfer: DataTransfer?\r\n}\r\n\r\npublic external interface DragEventInit : MouseEventInit {\r\n   var dataTransfer: DataTransfer? /* = null */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun DragEventInit(dataTransfer: DataTransfer? = null, screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget: EventTarget? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): DragEventInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"dataTransfer\"] = dataTransfer\r\n   o[\"screenX\"] = screenX\r\n   o[\"screenY\"] = screenY\r\n   o[\"clientX\"] = clientX\r\n   o[\"clientY\"] = clientY\r\n   o[\"button\"] = button\r\n   o[\"buttons\"] = buttons\r\n   o[\"relatedTarget\"] = relatedTarget\r\n   o[\"ctrlKey\"] = ctrlKey\r\n   o[\"shiftKey\"] = shiftKey\r\n   o[\"altKey\"] = altKey\r\n   o[\"metaKey\"] = metaKey\r\n   o[\"modifierAltGraph\"] = modifierAltGraph\r\n   o[\"modifierCapsLock\"] = modifierCapsLock\r\n   o[\"modifierFn\"] = modifierFn\r\n   o[\"modifierFnLock\"] = modifierFnLock\r\n   o[\"modifierHyper\"] = modifierHyper\r\n   o[\"modifierNumLock\"] = modifierNumLock\r\n   o[\"modifierScrollLock\"] = modifierScrollLock\r\n   o[\"modifierSuper\"] = modifierSuper\r\n   o[\"modifierSymbol\"] = modifierSymbol\r\n   o[\"modifierSymbolLock\"] = modifierSymbolLock\r\n   o[\"view\"] = view\r\n   o[\"detail\"] = detail\r\n   o[\"bubbles\"] = bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\npublic external abstract class BarProp {\r\n   open val visible: Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [History](https://developer.mozilla.org/en/docs/Web/API/History) to Kotlin\r\n */\r\npublic external abstract class History {\r\n   open val length: Int\r\n   open var scrollRestoration: ScrollRestoration\r\n   open val state: Any?\r\n   fun go(delta: Int = definedExternally): Unit\r\n   fun back(): Unit\r\n   fun forward(): Unit\r\n   fun pushState(data: Any?, title: String, url: String? = definedExternally): Unit\r\n   fun replaceState(data: Any?, title: String, url: String? = definedExternally): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Location](https://developer.mozilla.org/en/docs/Web/API/Location) to Kotlin\r\n */\r\npublic external abstract class Location {\r\n   open var href: String\r\n   open val origin: String\r\n   open var protocol: String\r\n   open var host: String\r\n   open var hostname: String\r\n   open var port: String\r\n   open var pathname: String\r\n   open var search: String\r\n   open var hash: String\r\n   open val ancestorOrigins: Array<out String>\r\n   fun assign(url: String): Unit\r\n   fun replace(url: String): Unit\r\n   fun reload(): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [PopStateEvent](https://developer.mozilla.org/en/docs/Web/API/PopStateEvent) to Kotlin\r\n */\r\npublic external open class PopStateEvent(type: String, eventInitDict: PopStateEventInit = definedExternally) : Event {\r\n   open val state: Any?\r\n}\r\n\r\npublic external interface PopStateEventInit : EventInit {\r\n   var state: Any? /* = null */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun PopStateEventInit(state: Any? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): PopStateEventInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"state\"] = state\r\n   o[\"bubbles\"] = bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HashChangeEvent](https://developer.mozilla.org/en/docs/Web/API/HashChangeEvent) to Kotlin\r\n */\r\npublic external open class HashChangeEvent(type: String, eventInitDict: HashChangeEventInit = definedExternally) : Event {\r\n   open val oldURL: String\r\n   open val newURL: String\r\n}\r\n\r\npublic external interface HashChangeEventInit : EventInit {\r\n   var oldURL: String? /* = \"\" */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var newURL: String? /* = \"\" */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun

HashChangeEventInit(oldURL: String? = \"\", newURL: String? = \"\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): HashChangeEventInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"oldURL\"] = oldURL\r\n   o[\"newURL\"] = newURL\r\n   o[\"bubbles\"] = bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [PageTransitionEvent](https://developer.mozilla.org/en/docs/Web/API/PageTransitionEvent) to Kotlin\r\n */\r\npublic external open class PageTransitionEvent(type: String, eventInitDict: PageTransitionEventInit = definedExternally) : Event {\r\n   open val persisted: Boolean\r\n}\r\n\r\npublic external interface PageTransitionEventInit : EventInit {\r\n   var persisted: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun PageTransitionEventInit(persisted: Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): PageTransitionEventInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"persisted\"] = persisted\r\n   o[\"bubbles\"] = bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [BeforeUnloadEvent](https://developer.mozilla.org/en/docs/Web/API/BeforeUnloadEvent) to Kotlin\r\n */\r\npublic external open class BeforeUnloadEvent : Event {\r\n   var returnValue: String\r\n}\r\n\r\npublic external abstract class ApplicationCache : EventTarget {\r\n   open val status: Short\r\n   open var onchecking: ((Event) -> dynamic)?\r\n   open var onerror: ((Event) -> dynamic)?\r\n   open var onnoupdate: ((Event) -> dynamic)?\r\n   open var ondownloading: ((Event) -> dynamic)?\r\n   open var onprogress: ((ProgressEvent) -> dynamic)?\r\n   open var onupdateready: ((Event) -> dynamic)?\r\n   open var oncached: ((Event) -> dynamic)?\r\n   open var onobsolete: ((Event) -> dynamic)?\r\n   fun update(): Unit\r\n   fun abort(): Unit\r\n   fun swapCache(): Unit\r\n\r\n   companion object {\r\n   val UNCACHED: Short\r\n   val IDLE: Short\r\n   val CHECKING: Short\r\n   val DOWNLOADING: Short\r\n   val UPDATEREADY: Short\r\n   val OBSOLETE: Short\r\n   }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [NavigatorOnLine](https://developer.mozilla.org/en/docs/Web/API/NavigatorOnLine) to Kotlin\r\n */\r\npublic external interface NavigatorOnLine {\r\n   val onLine: Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ErrorEvent](https://developer.mozilla.org/en/docs/Web/API/ErrorEvent) to Kotlin\r\n */\r\npublic external open class ErrorEvent(type: String, eventInitDict: ErrorEventInit = definedExternally) : Event {\r\n   open val message: String\r\n   open val filename: String\r\n   open val lineno: Int\r\n   open val colno: Int\r\n   open val error: Any?\r\n}\r\n\r\npublic external interface ErrorEventInit : EventInit {\r\n   var message: String? /* = \"\" */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var filename: String? /* = \"\" */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var lineno: Int? /* = 0 */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var colno: Int? /* = 0 */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var error: Any? /* = null */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ErrorEventInit(message: String? = \"\", filename: String? = \"\", lineno: Int? = 0, colno: Int? = 0, error: Any? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ErrorEventInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"message\"] = message\r\n   o[\"filename\"] = filename\r\n   o[\"lineno\"] = lineno\r\n   o[\"colno\"] = colno\r\n   o[\"error\"] = error\r\n   o[\"bubbles\"] = bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [PromiseRejectionEvent](https://developer.mozilla.org/en/docs/Web/API/PromiseRejectionEvent) to Kotlin\r\n */\r\npublic external open class PromiseRejectionEvent(type: String, eventInitDict: PromiseRejectionEventInit) : Event {\r\n   open val promise: Promise<Any?>\r\n   open val reason: Any?\r\n}\r\n\r\npublic external interface PromiseRejectionEventInit : EventInit {\r\n   var promise: Promise<Any?>?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var reason: Any?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun PromiseRejectionEventInit(promise: Promise<Any?>?, reason: Any? = undefined, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): PromiseRejectionEventInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"promise\"] = promise\r\n   o[\"reason\"] = reason\r\n   o[\"bubbles\"] = bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] =

composed\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [GlobalEventHandlers](https://developer.mozilla.org/en/docs/Web/API/GlobalEventHandlers) to Kotlin\r\n */\r\npublic external interface GlobalEventHandlers {\r\n   var ongotpointercapture: ((PointerEvent) -> dynamic)?\r\n   var onlostpointercapture: ((PointerEvent) -> dynamic)?\r\n   var onpointerdown: ((PointerEvent) -> dynamic)?\r\n   var onpointermove: ((PointerEvent) -> dynamic)?\r\n   var onpointerup: ((PointerEvent) -> dynamic)?\r\n   var onpointercancel: ((PointerEvent) -> dynamic)?\r\n   var onpointerover: ((PointerEvent) -> dynamic)?\r\n   var onpointerout: ((PointerEvent) -> dynamic)?\r\n   var onpointerenter: ((PointerEvent) -> dynamic)?\r\n   var onpointerleave: ((PointerEvent) -> dynamic)?\r\n   var onabort: ((Event) -> dynamic)?\r\n   var onblur: ((FocusEvent) -> dynamic)?\r\n   var oncancel: ((Event) -> dynamic)?\r\n   var oncanplay: ((Event) -> dynamic)?\r\n   var oncanplaythrough: ((Event) -> dynamic)?\r\n   var onchange: ((Event) -> dynamic)?\r\n   var onclick: ((MouseEvent) -> dynamic)?\r\n   var onclose: ((Event) -> dynamic)?\r\n   var oncontextmenu: ((MouseEvent) -> dynamic)?\r\n   var oncuechange: ((Event) -> dynamic)?\r\n   var ondblclick: ((MouseEvent) -> dynamic)?\r\n   var ondrag: ((DragEvent) -> dynamic)?\r\n   var ondragend: ((DragEvent) -> dynamic)?\r\n   var ondragenter: ((DragEvent) -> dynamic)?\r\n   var ondragexit: ((DragEvent) -> dynamic)?\r\n   var ondragleave: ((DragEvent) -> dynamic)?\r\n   var ondragover: ((DragEvent) -> dynamic)?\r\n   var ondragstart: ((DragEvent) -> dynamic)?\r\n   var ondrop: ((DragEvent) -> dynamic)?\r\n   var ondurationchange: ((Event) -> dynamic)?\r\n   var onemptied: ((Event) -> dynamic)?\r\n   var onended: ((Event) -> dynamic)?\r\n   var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\r\n   var onfocus: ((FocusEvent) -> dynamic)?\r\n   var oninput: ((InputEvent) -> dynamic)?\r\n   var oninvalid: ((Event) -> dynamic)?\r\n   var onkeydown: ((KeyboardEvent) -> dynamic)?\r\n   var onkeypress: ((KeyboardEvent) -> dynamic)?\r\n   var onkeyup: ((KeyboardEvent) -> dynamic)?\r\n   var onload: ((Event) -> dynamic)?\r\n   var onloadeddata: ((Event) -> dynamic)?\r\n   var onloadedmetadata: ((Event) -> dynamic)?\r\n   var onloadend: ((Event) -> dynamic)?\r\n   var onloadstart: ((ProgressEvent) -> dynamic)?\r\n   var onmousedown: ((MouseEvent) -> dynamic)?\r\n   var onmouseenter: ((MouseEvent) -> dynamic)?\r\n   var onmouseleave: ((MouseEvent) -> dynamic)?\r\n   var onmousemove: ((MouseEvent) -> dynamic)?\r\n   var onmouseout: ((MouseEvent) -> dynamic)?\r\n   var onmouseover: ((MouseEvent) -> dynamic)?\r\n   var onmouseup: ((MouseEvent) -> dynamic)?\r\n   var onwheel: ((WheelEvent) -> dynamic)?\r\n   var onpause: ((Event) -> dynamic)?\r\n   var onplay: ((Event) -> dynamic)?\r\n   var onplaying: ((Event) -> dynamic)?\r\n   var onprogress: ((ProgressEvent) -> dynamic)?\r\n   var onratechange: ((Event) -> dynamic)?\r\n   var onreset: ((Event) -> dynamic)?\r\n   var onresize: ((Event) -> dynamic)?\r\n   var onscroll: ((Event) -> dynamic)?\r\n   var onseeked: ((Event) -> dynamic)?\r\n   var onseeking: ((Event) -> dynamic)?\r\n   var onselect: ((Event) -> dynamic)?\r\n   var onshow: ((Event) -> dynamic)?\r\n   var onstalled: ((Event) -> dynamic)?\r\n   var onsubmit: ((Event) -> dynamic)?\r\n   var onsuspend: ((Event) -> dynamic)?\r\n   var ontimeupdate: ((Event) -> dynamic)?\r\n   var ontoggle: ((Event) -> dynamic)?\r\n   var onvolumechange: ((Event) -> dynamic)?\r\n   var onwaiting: ((Event) -> dynamic)?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [WindowEventHandlers](https://developer.mozilla.org/en/docs/Web/API/WindowEventHandlers) to Kotlin\r\n */\r\npublic external interface WindowEventHandlers {\r\n   var onafterprint: ((Event) -> dynamic)?\r\n   var onbeforeprint: ((Event) -> dynamic)?\r\n   var onbeforeunload: ((BeforeUnloadEvent) -> String?)?\r\n   var onhashchange: ((HashChangeEvent) -> dynamic)?\r\n   var onlanguagechange: ((Event) -> dynamic)?\r\n   var onmessage: ((MessageEvent) -> dynamic)?\r\n   var onoffline: ((Event) -> dynamic)?\r\n   var ononline: ((Event) -> dynamic)?\r\n   var onpagehide: ((PageTransitionEvent) -> dynamic)?\r\n   var onpageshow: ((PageTransitionEvent) -> dynamic)?\r\n   var onpopstate: ((PopStateEvent) -> dynamic)?\r\n   var onrejectionhandled: ((Event) -> dynamic)?\r\n   var onstorage: ((StorageEvent) -> dynamic)?\r\n   var onunhandledrejection: ((PromiseRejectionEvent) -> dynamic)?\r\n   var onunload: ((Event) -> dynamic)?\r\n}\r\n\r\npublic external interface DocumentAndElementEventHandlers {\r\n   var oncopy: ((ClipboardEvent) -> dynamic)?\r\n   var oncut: ((ClipboardEvent) -> dynamic)?\r\n   var onpaste: ((ClipboardEvent) -> dynamic)?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [WindowOrWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WindowOrWorkerGlobalScope) to Kotlin\r\n */\r\npublic external interface WindowOrWorkerGlobalScope {\r\n   val caches: CacheStorage\r\n

val origin: String\r\n   fun fetch(input: dynamic, init: RequestInit = definedExternally): Promise<Response>\r\n fun btoa(data: String): String\r\n   fun atob(data: String): String\r\n   fun setTimeout(handler: dynamic, timeout: Int = definedExternally, vararg arguments: Any?): Int\r\n   fun clearTimeout(handle: Int = definedExternally): Unit\r\n fun setInterval(handler: dynamic, timeout: Int = definedExternally, vararg arguments: Any?): Int\r\n   fun clearInterval(handle: Int = definedExternally): Unit\r\n   fun createImageBitmap(image: dynamic, options: ImageBitmapOptions = definedExternally): Promise<ImageBitmap>\r\n   fun createImageBitmap(image: dynamic, sx: Int, sy: Int, sw: Int, sh: Int, options: ImageBitmapOptions = definedExternally): Promise<ImageBitmap>\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [NavigatorID](https://developer.mozilla.org/en/docs/Web/API/NavigatorID) to Kotlin\r\n */\r\npublic external interface NavigatorID {\r\n   val appCodeName: String\r\n   val appName: String\r\n   val appVersion: String\r\n   val platform: String\r\n   val product: String\r\n   val productSub: String\r\n   val userAgent: String\r\n   val vendor: String\r\n   val vendorSub: String\r\n   val oscpu: String\r\n   fun taintEnabled(): Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [NavigatorLanguage](https://developer.mozilla.org/en/docs/Web/API/NavigatorLanguage) to Kotlin\r\n */\r\npublic external interface NavigatorLanguage {\r\n   val language: String\r\n   val languages: Array<out String>\r\n}\r\n\r\npublic external interface NavigatorContentUtils {\r\n   fun registerProtocolHandler(scheme: String, url: String, title: String): Unit\r\n   fun registerContentHandler(mimeType: String, url: String, title: String): Unit\r\n   fun isProtocolHandlerRegistered(scheme: String, url: String): String\r\n   fun isContentHandlerRegistered(mimeType: String, url: String): String\r\n   fun unregisterProtocolHandler(scheme: String, url: String): Unit\r\n   fun unregisterContentHandler(mimeType: String, url: String): Unit\r\n}\r\n\r\npublic external interface NavigatorCookies {\r\n   val cookieEnabled: Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [NavigatorPlugins](https://developer.mozilla.org/en/docs/Web/API/NavigatorPlugins) to Kotlin\r\n */\r\npublic external interface NavigatorPlugins {\r\n   val plugins: PluginArray\r\n   val mimeTypes: MimeTypeArray\r\n   fun javaEnabled(): Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [PluginArray](https://developer.mozilla.org/en/docs/Web/API/PluginArray) to Kotlin\r\n */\r\npublic external abstract class PluginArray : ItemArrayLike<Plugin> {\r\n   override val length: Int\r\n   fun refresh(reload: Boolean = definedExternally): Unit\r\n   override fun item(index: Int): Plugin?\r\n   fun namedItem(name: String): Plugin?\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun PluginArray.get(index: Int): Plugin? = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun PluginArray.get(name: String): Plugin? = asDynamic()[name]\r\n\r\n/**\r\n * Exposes the JavaScript [MimeTypeArray](https://developer.mozilla.org/en/docs/Web/API/MimeTypeArray) to Kotlin\r\n */\r\npublic external abstract class MimeTypeArray : ItemArrayLike<MimeType> {\r\n   override val length: Int\r\n   override fun item(index: Int): MimeType?\r\n   fun namedItem(name: String): MimeType?\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun MimeTypeArray.get(index: Int): MimeType? = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun MimeTypeArray.get(name: String): MimeType? = asDynamic()[name]\r\n\r\n/**\r\n * Exposes the JavaScript [Plugin](https://developer.mozilla.org/en/docs/Web/API/Plugin) to Kotlin\r\n */\r\npublic external abstract class Plugin : ItemArrayLike<MimeType> {\r\n   open val name: String\r\n   open val description: String\r\n   open val filename: String\r\n   override val length: Int\r\n   override fun item(index: Int): MimeType?\r\n   fun namedItem(name: String): MimeType?\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun Plugin.get(index: Int): MimeType? = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun Plugin.get(name: String): MimeType? = asDynamic()[name]\r\n\r\n/**\r\n * Exposes the JavaScript [MimeType](https://developer.mozilla.org/en/docs/Web/API/MimeType) to Kotlin\r\n */\r\npublic external abstract class MimeType {\r\n   open val type: String\r\n   open val description: String\r\n   open val suffixes: String\r\n   open val enabledPlugin: Plugin\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ImageBitmap](https://developer.mozilla.org/en/docs/Web/API/ImageBitmap) to Kotlin\r\n */\r\npublic external abstract class ImageBitmap : TexImageSource {\r\n   open val width: Int\r\n   open val height: Int\r\n   fun close(): Unit\r\n}\r\n\r\npublic external interface ImageBitmapOptions {\r\n   var imageOrientation: ImageOrientation? /* =

ImageOrientation.NONE */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var premultiplyAlpha: PremultiplyAlpha? /* = PremultiplyAlpha.DEFAULT */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var colorSpaceConversion: ColorSpaceConversion? /* = ColorSpaceConversion.DEFAULT */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var resizeWidth: Int?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var resizeHeight: Int?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var resizeQuality: ResizeQuality? /* = ResizeQuality.LOW */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ImageBitmapOptions(imageOrientation: ImageOrientation? = ImageOrientation.NONE, premultiplyAlpha: PremultiplyAlpha? = PremultiplyAlpha.DEFAULT, colorSpaceConversion: ColorSpaceConversion? = ColorSpaceConversion.DEFAULT, resizeWidth: Int? = undefined, resizeHeight: Int? = undefined, resizeQuality: ResizeQuality? = ResizeQuality.LOW): ImageBitmapOptions {\r\n val o = js(\"({})\")\r\n\r\n o[\"imageOrientation\"] = imageOrientation\r\n o[\"premultiplyAlpha\"] = premultiplyAlpha\r\n o[\"colorSpaceConversion\"] = colorSpaceConversion\r\n o[\"resizeWidth\"] = resizeWidth\r\n o[\"resizeHeight\"] = resizeHeight\r\n o[\"resizeQuality\"] = resizeQuality\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [MessageEvent](https://developer.mozilla.org/en/docs/Web/API/MessageEvent) to Kotlin\r\n */\r\npublic external open class MessageEvent(type: String, eventInitDict: MessageEventInit = definedExternally) : Event {\r\n open val data: Any?\r\n open val origin: String\r\n open val lastEventId: String\r\n open val source: UnionMessagePortOrWindow?\r\n open val ports: Array<out MessagePort>\r\n fun initMessageEvent(type: String, bubbles: Boolean, cancelable: Boolean, data: Any?, origin: String, lastEventId: String, source: UnionMessagePortOrWindow?, ports: Array<MessagePort>): Unit\r\n}\r\n\r\npublic external interface MessageEventInit : EventInit {\r\n var data: Any? /* = null */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var origin: String? /* = \"\" */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var lastEventId: String? /* = \"\" */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var source: UnionMessagePortOrWindow? /* = null */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var ports: Array<MessagePort>? /* = arrayOf() */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun MessageEventInit(data: Any? = null, origin: String? = \"\", lastEventId: String? = \"\", source: UnionMessagePortOrWindow? = null, ports: Array<MessagePort>? = arrayOf(), bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): MessageEventInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"data\"] = data\r\n o[\"origin\"] = origin\r\n o[\"lastEventId\"] = lastEventId\r\n o[\"source\"] = source\r\n o[\"ports\"] = ports\r\n o[\"bubbles\"] = bubbles\r\n o[\"cancelable\"] = cancelable\r\n o[\"composed\"] = composed\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [EventSource](https://developer.mozilla.org/en/docs/Web/API/EventSource) to Kotlin\r\n */\r\npublic external open class EventSource(url: String, eventSourceInitDict: EventSourceInit = definedExternally) : EventTarget {\r\n open val url: String\r\n open val withCredentials: Boolean\r\n open val readyState: Short\r\n var onopen: ((Event) -> dynamic)?\r\n var onmessage: ((MessageEvent) -> dynamic)?\r\n var onerror: ((Event) -> dynamic)?\r\n fun close(): Unit\r\n\r\n companion object {\r\n val CONNECTING: Short\r\n val OPEN: Short\r\n val CLOSED: Short\r\n }\r\n}\r\n\r\npublic external interface EventSourceInit {\r\n var withCredentials: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun EventSourceInit(withCredentials: Boolean? = false): EventSourceInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"withCredentials\"] = withCredentials\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [WebSocket](https://developer.mozilla.org/en/docs/Web/API/WebSocket) to Kotlin\r\n */\r\npublic external open class WebSocket(url: String, protocols: dynamic = definedExternally) : EventTarget {\r\n open val url: String\r\n open val readyState: Short\r\n open val bufferedAmount: Int\r\n var onopen: ((Event) -> dynamic)?\r\n var onerror: ((Event) -> dynamic)?\r\n var onclose: ((Event) -> dynamic)?\r\n open val extensions: String\r\n open val protocol: String\r\n var onmessage: ((MessageEvent) -> dynamic)?\r\n var binaryType: BinaryType\r\n fun

close(code: Short = definedExternally, reason: String = definedExternally): Unit\r\n   fun send(data: String): Unit\r\n   fun send(data: Blob): Unit\r\n   fun send(data: ArrayBuffer): Unit\r\n   fun send(data: ArrayBufferView): Unit\r\n\r\n   companion object {\r\n   val CONNECTING: Short\r\n   val OPEN: Short\r\n   val CLOSING: Short\r\n   val CLOSED: Short\r\n   }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CloseEvent](https://developer.mozilla.org/en/docs/Web/API/CloseEvent) to Kotlin\r\n */\r\npublic external open class CloseEvent(type: String, eventInitDict: CloseEventInit = definedExternally) : Event {\r\n   open val wasClean: Boolean\r\n   open val code: Short\r\n   open val reason: String\r\n}\r\n\r\npublic external interface CloseEventInit : EventInit {\r\n   var wasClean: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var code: Short? /* = 0 */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var reason: String? /* = \"\" */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun CloseEventInit(wasClean: Boolean? = false, code: Short? = 0, reason: String? = \"\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): CloseEventInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"wasClean\"] = wasClean\r\n   o[\"code\"] = code\r\n   o[\"reason\"] = reason\r\n   o[\"bubbles\"] = bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [MessageChannel](https://developer.mozilla.org/en/docs/Web/API/MessageChannel) to Kotlin\r\n */\r\npublic external open class MessageChannel {\r\n   open val port1: MessagePort\r\n   open val port2: MessagePort\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [MessagePort](https://developer.mozilla.org/en/docs/Web/API/MessagePort) to Kotlin\r\n */\r\npublic external abstract class MessagePort : EventTarget, UnionMessagePortOrWindow, UnionMessagePortOrServiceWorker, UnionClientOrMessagePortOrServiceWorker {\r\n   open var onmessage: ((MessageEvent) -> dynamic)?\r\n   fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally): Unit\r\n   fun start(): Unit\r\n   fun close(): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [BroadcastChannel](https://developer.mozilla.org/en/docs/Web/API/BroadcastChannel) to Kotlin\r\n */\r\npublic external open class BroadcastChannel(name: String) : EventTarget {\r\n   open val name: String\r\n   var onmessage: ((MessageEvent) -> dynamic)?\r\n   fun postMessage(message: Any?): Unit\r\n   fun close(): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [WorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WorkerGlobalScope) to Kotlin\r\n */\r\npublic external abstract class WorkerGlobalScope : EventTarget, WindowOrWorkerGlobalScope, GlobalPerformance {\r\n   open val self: WorkerGlobalScope\r\n   open val location: WorkerLocation\r\n   open val navigator: WorkerNavigator\r\n   open var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\r\n   open var onlanguagechange: ((Event) -> dynamic)?\r\n   open var onoffline: ((Event) -> dynamic)?\r\n   open var ononline: ((Event) -> dynamic)?\r\n   open var onrejectionhandled: ((Event) -> dynamic)?\r\n   open var onunhandledrejection: ((PromiseRejectionEvent) -> dynamic)?\r\n   fun importScripts(vararg urls: String): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [DedicatedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/DedicatedWorkerGlobalScope) to Kotlin\r\n */\r\npublic external abstract class DedicatedWorkerGlobalScope : WorkerGlobalScope {\r\n   open var onmessage: ((MessageEvent) -> dynamic)?\r\n   fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally): Unit\r\n   fun close(): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SharedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/SharedWorkerGlobalScope) to Kotlin\r\n */\r\npublic external abstract class SharedWorkerGlobalScope : WorkerGlobalScope {\r\n   open val name: String\r\n   open val applicationCache: ApplicationCache\r\n   open var onconnect: ((Event) -> dynamic)?\r\n   fun close(): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [AbstractWorker](https://developer.mozilla.org/en/docs/Web/API/AbstractWorker) to Kotlin\r\n */\r\npublic external interface AbstractWorker {\r\n   var onerror: ((Event) -> dynamic)?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Worker](https://developer.mozilla.org/en/docs/Web/API/Worker) to Kotlin\r\n */\r\npublic external open class Worker(scriptURL: String, options: WorkerOptions = definedExternally) : EventTarget, AbstractWorker {\r\n   var onmessage: ((MessageEvent) -> dynamic)?\r\n   override var onerror: ((Event) -> dynamic)?\r\n   fun

terminate(): Unit\r\n   fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally): Unit\r\n}\r\n\r\npublic external interface WorkerOptions {\r\n   var type: WorkerType? /* = WorkerType.CLASSIC */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var credentials: RequestCredentials? /* = RequestCredentials.OMIT */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun WorkerOptions(type: WorkerType? = WorkerType.CLASSIC, credentials: RequestCredentials? = RequestCredentials.OMIT): WorkerOptions {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"type\"] = type\r\n   o[\"credentials\"] = credentials\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SharedWorker](https://developer.mozilla.org/en/docs/Web/API/SharedWorker) to Kotlin\r\n */\r\npublic external open class SharedWorker(scriptURL: String, name: String = definedExternally, options: WorkerOptions = definedExternally) : EventTarget, AbstractWorker {\r\n   open val port: MessagePort\r\n   override var onerror: ((Event) -> dynamic)?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [NavigatorConcurrentHardware](https://developer.mozilla.org/en/docs/Web/API/NavigatorConcurrentHardware) to Kotlin\r\n */\r\npublic external interface NavigatorConcurrentHardware {\r\n   val hardwareConcurrency: Int\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [WorkerNavigator](https://developer.mozilla.org/en/docs/Web/API/WorkerNavigator) to Kotlin\r\n */\r\npublic external abstract class WorkerNavigator : NavigatorID, NavigatorLanguage, NavigatorOnLine, NavigatorConcurrentHardware {\r\n   open val serviceWorker: ServiceWorkerContainer\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [WorkerLocation](https://developer.mozilla.org/en/docs/Web/API/WorkerLocation) to Kotlin\r\n */\r\npublic external abstract class WorkerLocation {\r\n   open var href: String\r\n   open val origin: String\r\n   open val protocol: String\r\n   open val host: String\r\n   open val hostname: String\r\n   open val port: String\r\n   open val pathname: String\r\n   open val search: String\r\n   open val hash: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Storage](https://developer.mozilla.org/en/docs/Web/API/Storage) to Kotlin\r\n */\r\npublic external abstract class Storage {\r\n   open val length: Int\r\n   fun key(index: Int): String?\r\n   fun getItem(key: String): String?\r\n   fun setItem(key: String, value: String): Unit\r\n   fun removeItem(key: String): Unit\r\n   fun clear(): Unit\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun Storage.get(key: String): String? = asDynamic()[key]\r\n@kotlin.internal.InlineOnly inline operator fun Storage.set(key: String, value: String): Unit { asDynamic()[key] = value; }\r\n\r\n/**\r\n * Exposes the JavaScript [WindowSessionStorage](https://developer.mozilla.org/en/docs/Web/API/WindowSessionStorage) to Kotlin\r\n */\r\npublic external interface WindowSessionStorage {\r\n   val sessionStorage: Storage\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [WindowLocalStorage](https://developer.mozilla.org/en/docs/Web/API/WindowLocalStorage) to Kotlin\r\n */\r\npublic external interface WindowLocalStorage {\r\n   val localStorage: Storage\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [StorageEvent](https://developer.mozilla.org/en/docs/Web/API/StorageEvent) to Kotlin\r\n */\r\npublic external open class StorageEvent(type: String, eventInitDict: StorageEventInit = definedExternally) : Event {\r\n   open val key: String?\r\n   open val oldValue: String?\r\n   open val newValue: String?\r\n   open val url: String\r\n   open val storageArea: Storage?\r\n}\r\n\r\npublic external interface StorageEventInit : EventInit {\r\n   var key: String? /* = null */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var oldValue: String? /* = null */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var newValue: String? /* = null */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var url: String? /* = \"\" */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var storageArea: Storage? /* = null */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun StorageEventInit(key: String? = null, oldValue: String? = null, newValue: String? = null, url: String? = \"\", storageArea: Storage? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): StorageEventInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"key\"] = key\r\n   o[\"oldValue\"] = oldValue\r\n   o[\"newValue\"] = newValue\r\n   o[\"url\"] = url\r\n   o[\"storageArea\"] = storageArea\r\n   o[\"bubbles\"] = bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\npublic external abstract class HTMLAppletElement : HTMLElement {\r\n   open var align: String\r\n   open var alt: String\r\n   open var

archive: String\r\n   open var code: String\r\n   open var codeBase: String\r\n   open var height: String\r\n   open var hspace: Int\r\n   open var name: String\r\n   open var _object: String\r\n   open var vspace: Int\r\n   open var width: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLMarqueeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMarqueeElement) to Kotlin\r\n */\r\npublic external abstract class HTMLMarqueeElement : HTMLElement {\r\n   open var behavior: String\r\n   open var bgColor: String\r\n   open var direction: String\r\n   open var height: String\r\n   open var hspace: Int\r\n   open var loop: Int\r\n   open var scrollAmount: Int\r\n   open var scrollDelay: Int\r\n   open var trueSpeed: Boolean\r\n   open var vspace: Int\r\n   open var width: String\r\n   open var onbounce: ((Event) -> dynamic)?\r\n   open var onfinish: ((Event) -> dynamic)?\r\n   open var onstart: ((Event) -> dynamic)?\r\n   fun start(): Unit\r\n   fun stop(): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLFrameSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFrameSetElement) to Kotlin\r\n */\r\npublic external abstract class HTMLFrameSetElement : HTMLElement, WindowEventHandlers {\r\n   open var cols: String\r\n   open var rows: String\r\n}\r\n\r\npublic external abstract class HTMLFrameElement : HTMLElement {\r\n   open var name: String\r\n   open var scrolling: String\r\n   open var src: String\r\n   open var frameBorder: String\r\n   open var longDesc: String\r\n   open var noResize: Boolean\r\n   open val contentDocument: Document?\r\n   open val contentWindow: Window?\r\n   open var marginHeight: String\r\n   open var marginWidth: String\r\n}\r\n\r\npublic external abstract class HTMLDirectoryElement : HTMLElement {\r\n   open var compact: Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLFontElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFontElement) to Kotlin\r\n */\r\npublic external abstract class HTMLFontElement : HTMLElement {\r\n   open var color: String\r\n   open var face: String\r\n   open var size: String\r\n}\r\n\r\npublic external interface External {\r\n   fun AddSearchProvider(): Unit\r\n   fun IsSearchProviderInstalled(): Unit\r\n}\r\n\r\npublic external interface EventInit {\r\n   var bubbles: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var cancelable: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var composed: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun EventInit(bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): EventInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"bubbles\"] = bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CustomEvent](https://developer.mozilla.org/en/docs/Web/API/CustomEvent) to Kotlin\r\n */\r\npublic external open class CustomEvent(type: String, eventInitDict: CustomEventInit = definedExternally) : Event {\r\n   open val detail: Any?\r\n   fun initCustomEvent(type: String, bubbles: Boolean, cancelable: Boolean, detail: Any?): Unit\r\n}\r\n\r\npublic external interface CustomEventInit : EventInit {\r\n   var detail: Any? /* = null */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun CustomEventInit(detail: Any? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): CustomEventInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"detail\"] = detail\r\n   o[\"bubbles\"] = bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\npublic external interface EventListenerOptions {\r\n   var capture: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun EventListenerOptions(capture: Boolean? = false): EventListenerOptions {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"capture\"] = capture\r\n\r\n   return o\r\n}\r\n\r\npublic external interface AddEventListenerOptions : EventListenerOptions {\r\n   var passive: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var once: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun AddEventListenerOptions(passive: Boolean? = false, once: Boolean? = false, capture: Boolean? = false): AddEventListenerOptions {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"passive\"] = passive\r\n   o[\"once\"] = once\r\n   o[\"capture\"] = capture\r\n\r\n   return o\r\n}\r\n\r\npublic external interface NonElementParentNode {\r\n   fun getElementById(elementId: String): Element?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript

[DocumentOrShadowRoot](https://developer.mozilla.org/en/docs/Web/API/DocumentOrShadowRoot) to Kotlin\r\n */\r\npublic external interface DocumentOrShadowRoot {\r\n   val fullscreenElement: Element?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ParentNode](https://developer.mozilla.org/en/docs/Web/API/ParentNode) to Kotlin\r\n */\r\npublic external interface ParentNode {\r\n   val children: HTMLCollection\r\n   val firstElementChild: Element?\r\n   val lastElementChild: Element?\r\n   val childElementCount: Int\r\n   fun prepend(vararg nodes: dynamic): Unit\r\n   fun append(vararg nodes: dynamic): Unit\r\n   fun querySelector(selectors: String): Element?\r\n   fun querySelectorAll(selectors: String): NodeList\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [NonDocumentTypeChildNode](https://developer.mozilla.org/en/docs/Web/API/NonDocumentTypeChildNode) to Kotlin\r\n */\r\npublic external interface NonDocumentTypeChildNode {\r\n   val previousElementSibling: Element?\r\n   val nextElementSibling: Element?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ChildNode](https://developer.mozilla.org/en/docs/Web/API/ChildNode) to Kotlin\r\n */\r\npublic external interface ChildNode {\r\n   fun before(vararg nodes: dynamic): Unit\r\n   fun after(vararg nodes: dynamic): Unit\r\n   fun replaceWith(vararg nodes: dynamic): Unit\r\n   fun remove(): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Slotable](https://developer.mozilla.org/en/docs/Web/API/Slotable) to Kotlin\r\n */\r\npublic external interface Slotable {\r\n   val assignedSlot: HTMLSlotElement?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [NodeList](https://developer.mozilla.org/en/docs/Web/API/NodeList) to Kotlin\r\n */\r\npublic external abstract class NodeList : ItemArrayLike<Node> {\r\n   override val length: Int\r\n   override fun item(index: Int): Node?\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun NodeList.get(index: Int): Node? = asDynamic()[index]\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLCollection) to Kotlin\r\n */\r\npublic external abstract class HTMLCollection : UnionElementOrHTMLCollection, ItemArrayLike<Element> {\r\n   override val length: Int\r\n   override fun item(index: Int): Element?\r\n   fun namedItem(name: String): Element?\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun HTMLCollection.get(index: Int): Element? = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun HTMLCollection.get(name: String): Element? = asDynamic()[name]\r\n\r\n/**\r\n * Exposes the JavaScript [MutationObserver](https://developer.mozilla.org/en/docs/Web/API/MutationObserver) to Kotlin\r\n */\r\npublic external open class MutationObserver(callback: (Array<MutationRecord>, MutationObserver) -> Unit) {\r\n   fun observe(target: Node, options: MutationObserverInit = definedExternally): Unit\r\n   fun disconnect(): Unit\r\n   fun takeRecords(): Array<MutationRecord>\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [MutationObserverInit](https://developer.mozilla.org/en/docs/Web/API/MutationObserverInit) to Kotlin\r\n */\r\npublic external interface MutationObserverInit {\r\n   var childList: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var attributes: Boolean?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var characterData: Boolean?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var subtree: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var attributeOldValue: Boolean?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var characterDataOldValue: Boolean?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var attributeFilter: Array<String>?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun MutationObserverInit(childList: Boolean? = false, attributes: Boolean? = undefined, characterData: Boolean? = undefined, subtree: Boolean? = false, attributeOldValue: Boolean? = undefined, characterDataOldValue: Boolean? = undefined, attributeFilter: Array<String>? = undefined): MutationObserverInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"childList\"] = childList\r\n   o[\"attributes\"] = attributes\r\n   o[\"characterData\"] = characterData\r\n   o[\"subtree\"] = subtree\r\n   o[\"attributeOldValue\"] = attributeOldValue\r\n   o[\"characterDataOldValue\"] = characterDataOldValue\r\n   o[\"attributeFilter\"] = attributeFilter\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [MutationRecord](https://developer.mozilla.org/en/docs/Web/API/MutationRecord) to Kotlin\r\n */\r\npublic external abstract class MutationRecord {\r\n   open val type: String\r\n   open val target: Node\r\n   open val addedNodes: NodeList\r\n   open val removedNodes: NodeList\r\n   open val previousSibling: Node?\r\n   open val nextSibling: Node?\r\n   open val attributeName: String?\r\n   open val attributeNamespace: String?\r\n

open val oldValue: String?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Node](https://developer.mozilla.org/en/docs/Web/API/Node) to Kotlin\r\n */\r\npublic external abstract class Node : EventTarget {\r\n open val nodeType: Short\r\n open val nodeName: String\r\n open val baseURI: String\r\n open val isConnected: Boolean\r\n open val ownerDocument: Document?\r\n open val parentNode: Node?\r\n open val parentElement: Element?\r\n open val childNodes: NodeList\r\n open val firstChild: Node?\r\n open val lastChild: Node?\r\n open val previousSibling: Node?\r\n open val nextSibling: Node?\r\n open var nodeValue: String?\r\n open var textContent: String?\r\n fun getRootNode(options: GetRootNodeOptions = definedExternally): Node\r\n fun hasChildNodes(): Boolean\r\n fun normalize(): Unit\r\n fun cloneNode(deep: Boolean = definedExternally): Node\r\n fun isEqualNode(otherNode: Node?): Boolean\r\n fun isSameNode(otherNode: Node?): Boolean\r\n fun compareDocumentPosition(other: Node): Short\r\n fun contains(other: Node?): Boolean\r\n fun lookupPrefix(namespace: String?): String?\r\n fun lookupNamespaceURI(prefix: String?): String?\r\n fun isDefaultNamespace(namespace: String?): Boolean\r\n fun insertBefore(node: Node, child: Node?): Node\r\n fun appendChild(node: Node): Node\r\n fun replaceChild(node: Node, child: Node): Node\r\n fun removeChild(child: Node): Node\r\n\r\n companion object {\r\n val ELEMENT_NODE: Short\r\n val ATTRIBUTE_NODE: Short\r\n val TEXT_NODE: Short\r\n val CDATA_SECTION_NODE: Short\r\n val ENTITY_REFERENCE_NODE: Short\r\n val ENTITY_NODE: Short\r\n val PROCESSING_INSTRUCTION_NODE: Short\r\n val COMMENT_NODE: Short\r\n val DOCUMENT_NODE: Short\r\n val DOCUMENT_TYPE_NODE: Short\r\n val DOCUMENT_FRAGMENT_NODE: Short\r\n val NOTATION_NODE: Short\r\n val DOCUMENT_POSITION_DISCONNECTED: Short\r\n val DOCUMENT_POSITION_PRECEDING: Short\r\n val DOCUMENT_POSITION_FOLLOWING: Short\r\n val DOCUMENT_POSITION_CONTAINS: Short\r\n val DOCUMENT_POSITION_CONTAINED_BY: Short\r\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\r\n }\r\n}\r\n\r\npublic external interface GetRootNodeOptions {\r\n var composed: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun GetRootNodeOptions(composed: Boolean? = false): GetRootNodeOptions {\r\n val o = js(\"({})\")\r\n\r\n o[\"composed\"] = composed\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [XMLDocument](https://developer.mozilla.org/en/docs/Web/API/XMLDocument) to Kotlin\r\n */\r\npublic external open class XMLDocument : Document {\r\n override fun getElementById(elementId: String): Element?\r\n override fun prepend(vararg nodes: dynamic): Unit\r\n override fun append(vararg nodes: dynamic): Unit\r\n override fun querySelector(selectors: String): Element?\r\n override fun querySelectorAll(selectors: String): NodeList\r\n override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\r\n override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\r\n override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\r\n override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\r\n}\r\n\r\npublic external interface ElementCreationOptions {\r\n @JsName(\"is\") var is_: String?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ElementCreationOptions(is_: String? = undefined): ElementCreationOptions {\r\n val o = js(\"({})\")\r\n\r\n o[\"is\"] = is_\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [DOMImplementation](https://developer.mozilla.org/en/docs/Web/API/DOMImplementation) to Kotlin\r\n */\r\npublic external abstract class DOMImplementation {\r\n fun createDocumentType(qualifiedName: String, publicId: String, systemId: String): DocumentType\r\n fun createDocument(namespace: String?, qualifiedName: String, doctype: DocumentType? = definedExternally): XMLDocument\r\n fun createHTMLDocument(title: String = definedExternally): Document\r\n fun hasFeature(): Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [DocumentType](https://developer.mozilla.org/en/docs/Web/API/DocumentType) to Kotlin\r\n */\r\npublic external abstract class DocumentType : Node, ChildNode {\r\n open val name: String\r\n open val publicId: String\r\n

open val systemId: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [DocumentFragment](https://developer.mozilla.org/en/docs/Web/API/DocumentFragment) to Kotlin\r\n */\r\npublic external open class DocumentFragment : Node, NonElementParentNode, ParentNode {\r\n override val children: HTMLCollection\r\n override val firstElementChild: Element?\r\n override val lastElementChild: Element?\r\n override val childElementCount: Int\r\n override fun getElementById(elementId: String): Element?\r\n override fun prepend(vararg nodes: dynamic): Unit\r\n override fun append(vararg nodes: dynamic): Unit\r\n override fun querySelector(selectors: String): Element?\r\n override fun querySelectorAll(selectors: String): NodeList\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ShadowRoot](https://developer.mozilla.org/en/docs/Web/API/ShadowRoot) to Kotlin\r\n */\r\npublic external open class ShadowRoot : DocumentFragment, DocumentOrShadowRoot {\r\n open val mode: ShadowRootMode\r\n open val host: Element\r\n override val fullscreenElement: Element?\r\n override fun getElementById(elementId: String): Element?\r\n override fun prepend(vararg nodes: dynamic): Unit\r\n override fun append(vararg nodes: dynamic): Unit\r\n override fun querySelector(selectors: String): Element?\r\n override fun querySelectorAll(selectors: String): NodeList\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Element](https://developer.mozilla.org/en/docs/Web/API/Element) to Kotlin\r\n */\r\npublic external abstract class Element : Node, ParentNode, NonDocumentTypeChildNode, ChildNode, Slotable, GeometryUtils, UnionElementOrProcessingInstruction, UnionElementOrHTMLCollection, UnionElementOrRadioNodeList, UnionElementOrMouseEvent {\r\n open var innerHTML: String\r\n open var outerHTML: String\r\n open val namespaceURI: String?\r\n open val prefix: String?\r\n open val localName: String\r\n open val tagName: String\r\n open var id: String\r\n open var className: String\r\n open val classList: DOMTokenList\r\n open var slot: String\r\n open val attributes: NamedNodeMap\r\n open val shadowRoot: ShadowRoot?\r\n open var scrollTop: Double\r\n open var scrollLeft: Double\r\n open val scrollWidth: Int\r\n open val scrollHeight: Int\r\n open val clientTop: Int\r\n open val clientLeft: Int\r\n open val clientWidth: Int\r\n open val clientHeight: Int\r\n fun requestFullscreen(): Promise<Unit>\r\n fun setPointerCapture(pointerId: Int): Unit\r\n fun releasePointerCapture(pointerId: Int): Unit\r\n fun hasPointerCapture(pointerId: Int): Boolean\r\n fun insertAdjacentHTML(position: String, text: String): Unit\r\n fun hasAttributes(): Boolean\r\n fun getAttributeNames(): Array<String>\r\n fun getAttribute(qualifiedName: String): String?\r\n fun getAttributeNS(namespace: String?, localName: String): String?\r\n fun setAttribute(qualifiedName: String, value: String): Unit\r\n fun setAttributeNS(namespace: String?, qualifiedName: String, value: String): Unit\r\n fun removeAttribute(qualifiedName: String): Unit\r\n fun removeAttributeNS(namespace: String?, localName: String): Unit\r\n fun hasAttribute(qualifiedName: String): Boolean\r\n fun hasAttributeNS(namespace: String?, localName: String): Boolean\r\n fun getAttributeNode(qualifiedName: String): Attr?\r\n fun getAttributeNodeNS(namespace: String?, localName: String): Attr?\r\n fun setAttributeNode(attr: Attr): Attr?\r\n fun setAttributeNodeNS(attr: Attr): Attr?\r\n fun removeAttributeNode(attr: Attr): Attr\r\n fun attachShadow(init: ShadowRootInit): ShadowRoot\r\n fun closest(selectors: String): Element?\r\n fun matches(selectors: String): Boolean\r\n fun webkitMatchesSelector(selectors: String): Boolean\r\n fun getElementsByTagName(qualifiedName: String): HTMLCollection\r\n fun getElementsByTagNameNS(namespace: String?, localName: String): HTMLCollection\r\n fun getElementsByClassName(classNames: String): HTMLCollection\r\n fun insertAdjacentElement(where: String, element: Element): Element?\r\n fun insertAdjacentText(where: String, data: String): Unit\r\n fun getClientRects(): Array<DOMRect>\r\n fun getBoundingClientRect(): DOMRect\r\n fun scrollIntoView(): Unit\r\n fun scrollIntoView(arg: dynamic): Unit\r\n fun scroll(options: ScrollToOptions = definedExternally): Unit\r\n fun scroll(x: Double, y: Double): Unit\r\n fun scrollTo(options: ScrollToOptions = definedExternally): Unit\r\n fun scrollTo(x: Double, y: Double): Unit\r\n fun scrollBy(options: ScrollToOptions = definedExternally): Unit\r\n fun scrollBy(x: Double, y: Double): Unit\r\n}\r\n\r\npublic external interface ShadowRootInit {\r\n var mode: ShadowRootMode?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ShadowRootInit(mode: ShadowRootMode?): ShadowRootInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"mode\"] = mode\r\n\r\n return

o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [NamedNodeMap](https://developer.mozilla.org/en/docs/Web/API/NamedNodeMap) to Kotlin\r\n */\r\npublic external abstract class NamedNodeMap : ItemArrayLike<Attr> {\r\n override val length: Int\r\n override fun item(index: Int): Attr?\r\n fun getNamedItem(qualifiedName: String): Attr?\r\n fun getNamedItemNS(namespace: String?, localName: String): Attr?\r\n fun setNamedItem(attr: Attr): Attr?\r\n fun setNamedItemNS(attr: Attr): Attr?\r\n fun removeNamedItem(qualifiedName: String): Attr\r\n fun removeNamedItemNS(namespace: String?, localName: String): Attr\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun NamedNodeMap.get(index: Int): Attr? = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun NamedNodeMap.get(qualifiedName: String): Attr? = asDynamic()[qualifiedName]\r\n\r\n/**\r\n * Exposes the JavaScript [Attr](https://developer.mozilla.org/en/docs/Web/API/Attr) to Kotlin\r\n */\r\npublic external abstract class Attr : Node {\r\n open val namespaceURI: String?\r\n open val prefix: String?\r\n open val localName: String\r\n open val name: String\r\n open var value: String\r\n open val ownerElement: Element?\r\n open val specified: Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CharacterData](https://developer.mozilla.org/en/docs/Web/API/CharacterData) to Kotlin\r\n */\r\npublic external abstract class CharacterData : Node, NonDocumentTypeChildNode, ChildNode {\r\n open var data: String\r\n open val length: Int\r\n fun substringData(offset: Int, count: Int): String\r\n fun appendData(data: String): Unit\r\n fun insertData(offset: Int, data: String): Unit\r\n fun deleteData(offset: Int, count: Int): Unit\r\n fun replaceData(offset: Int, count: Int, data: String): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Text](https://developer.mozilla.org/en/docs/Web/API/Text) to Kotlin\r\n */\r\npublic external open class Text(data: String = definedExternally) : CharacterData, Slotable, GeometryUtils {\r\n open val wholeText: String\r\n override val previousElementSibling: Element?\r\n override val nextElementSibling: Element?\r\n override val assignedSlot: HTMLSlotElement?\r\n fun splitText(offset: Int): Text\r\n override fun before(vararg nodes: dynamic): Unit\r\n override fun after(vararg nodes: dynamic): Unit\r\n override fun replaceWith(vararg nodes: dynamic): Unit\r\n override fun remove(): Unit\r\n override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\r\n override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\r\n override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\r\n override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CDATASection](https://developer.mozilla.org/en/docs/Web/API/CDATASection) to Kotlin\r\n */\r\npublic external open class CDATASection : Text {\r\n override fun before(vararg nodes: dynamic): Unit\r\n override fun after(vararg nodes: dynamic): Unit\r\n override fun replaceWith(vararg nodes: dynamic): Unit\r\n override fun remove(): Unit\r\n override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\r\n override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\r\n override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\r\n override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ProcessingInstruction](https://developer.mozilla.org/en/docs/Web/API/ProcessingInstruction) to Kotlin\r\n */\r\npublic external abstract class ProcessingInstruction : CharacterData, LinkStyle, UnionElementOrProcessingInstruction {\r\n open val target: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Comment](https://developer.mozilla.org/en/docs/Web/API/Comment) to Kotlin\r\n */\r\npublic external open class Comment(data: String = definedExternally) : CharacterData {\r\n override val previousElementSibling: Element?\r\n override val nextElementSibling: Element?\r\n override fun before(vararg nodes: dynamic): Unit\r\n override fun after(vararg nodes: dynamic): Unit\r\n override fun replaceWith(vararg nodes: dynamic): Unit\r\n override fun remove(): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Range](https://developer.mozilla.org/en/docs/Web/API/Range) to Kotlin\r\n */\r\npublic external open class Range {\r\n open val startContainer: Node\r\n open val startOffset: Int\r\n open val endContainer: Node\r\n open val

endOffset: Int\r\n   open val collapsed: Boolean\r\n   open val commonAncestorContainer: Node\r\n   fun createContextualFragment(fragment: String): DocumentFragment\r\n   fun setStart(node: Node, offset: Int): Unit\r\n   fun setEnd(node: Node, offset: Int): Unit\r\n   fun setStartBefore(node: Node): Unit\r\n   fun setStartAfter(node: Node): Unit\r\n   fun setEndBefore(node: Node): Unit\r\n   fun setEndAfter(node: Node): Unit\r\n   fun collapse(toStart: Boolean = definedExternally): Unit\r\n   fun selectNode(node: Node): Unit\r\n   fun selectNodeContents(node: Node): Unit\r\n   fun compareBoundaryPoints(how: Short, sourceRange: Range): Short\r\n   fun deleteContents(): Unit\r\n   fun extractContents(): DocumentFragment\r\n   fun cloneContents(): DocumentFragment\r\n   fun insertNode(node: Node): Unit\r\n   fun surroundContents(newParent: Node): Unit\r\n   fun cloneRange(): Range\r\n   fun detach(): Unit\r\n   fun isPointInRange(node: Node, offset: Int): Boolean\r\n   fun comparePoint(node: Node, offset: Int): Short\r\n   fun intersectsNode(node: Node): Boolean\r\n   fun getClientRects(): Array<DOMRect>\r\n   fun getBoundingClientRect(): DOMRect\r\n\r\n   companion object {\r\n   val START_TO_START: Short\r\n   val START_TO_END: Short\r\n   val END_TO_END: Short\r\n   val END_TO_START: Short\r\n   }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [NodeIterator](https://developer.mozilla.org/en/docs/Web/API/NodeIterator) to Kotlin\r\n */\r\npublic external abstract class NodeIterator {\r\n   open val root: Node\r\n   open val referenceNode: Node\r\n   open val pointerBeforeReferenceNode: Boolean\r\n   open val whatToShow: Int\r\n   open val filter: NodeFilter?\r\n   fun nextNode(): Node?\r\n   fun previousNode(): Node?\r\n   fun detach(): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [TreeWalker](https://developer.mozilla.org/en/docs/Web/API/TreeWalker) to Kotlin\r\n */\r\npublic external abstract class TreeWalker {\r\n   open val root: Node\r\n   open val whatToShow: Int\r\n   open val filter: NodeFilter?\r\n   open var currentNode: Node\r\n   fun parentNode(): Node?\r\n   fun firstChild(): Node?\r\n   fun lastChild(): Node?\r\n   fun previousSibling(): Node?\r\n   fun nextSibling(): Node?\r\n   fun previousNode(): Node?\r\n   fun nextNode(): Node?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [NodeFilter](https://developer.mozilla.org/en/docs/Web/API/NodeFilter) to Kotlin\r\n */\r\npublic external interface NodeFilter {\r\n   fun acceptNode(node: Node): Short\r\n\r\n   companion object {\r\n   val FILTER_ACCEPT: Short\r\n   val FILTER_REJECT: Short\r\n   val FILTER_SKIP: Short\r\n   val SHOW_ALL: Int\r\n   val SHOW_ELEMENT: Int\r\n   val SHOW_ATTRIBUTE: Int\r\n   val SHOW_TEXT: Int\r\n   val SHOW_CDATA_SECTION: Int\r\n   val SHOW_ENTITY_REFERENCE: Int\r\n   val SHOW_ENTITY: Int\r\n   val SHOW_PROCESSING_INSTRUCTION: Int\r\n   val SHOW_COMMENT: Int\r\n   val SHOW_DOCUMENT: Int\r\n   val SHOW_DOCUMENT_TYPE: Int\r\n   val SHOW_DOCUMENT_FRAGMENT: Int\r\n   val SHOW_NOTATION: Int\r\n   }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [DOMTokenList](https://developer.mozilla.org/en/docs/Web/API/DOMTokenList) to Kotlin\r\n */\r\npublic external abstract class DOMTokenList : ItemArrayLike<String> {\r\n   override val length: Int\r\n   open var value: String\r\n   override fun item(index: Int): String?\r\n   fun contains(token: String): Boolean\r\n   fun add(vararg tokens: String): Unit\r\n   fun remove(vararg tokens: String): Unit\r\n   fun toggle(token: String, force: Boolean = definedExternally): Boolean\r\n   fun replace(token: String, newToken: String): Unit\r\n   fun supports(token: String): Boolean\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun DOMTokenList.get(index: Int): String? = asDynamic()[index]\r\n\r\n/**\r\n * Exposes the JavaScript [DOMPointReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMPointReadOnly) to Kotlin\r\n */\r\npublic external open class DOMPointReadOnly(x: Double, y: Double, z: Double, w: Double) {\r\n   open val x: Double\r\n   open val y: Double\r\n   open val z: Double\r\n   open val w: Double\r\n   fun matrixTransform(matrix: DOMMatrixReadOnly): DOMPoint\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [DOMPoint](https://developer.mozilla.org/en/docs/Web/API/DOMPoint) to Kotlin\r\n */\r\npublic external open class DOMPoint : DOMPointReadOnly {\r\n   constructor(point: DOMPointInit)\r\n   constructor(x: Double = definedExternally, y: Double = definedExternally, z: Double = definedExternally, w: Double = definedExternally)\r\n   override var x: Double\r\n   override var y: Double\r\n   override var z: Double\r\n   override var w: Double\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [DOMPointInit](https://developer.mozilla.org/en/docs/Web/API/DOMPointInit) to Kotlin\r\n */\r\npublic external interface DOMPointInit {\r\n   var x: Double? /* = 0.0 */\r\n   get() = definedExternally\r\n   set(value) =

definedExternally\r\n   var y: Double? /* = 0.0 */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var z: Double? /* = 0.0 */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var w: Double? /* = 1.0 */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun DOMPointInit(x: Double? = 0.0, y: Double? = 0.0, z: Double? = 0.0, w: Double? = 1.0): DOMPointInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"x\"] = x\r\n   o[\"y\"] = y\r\n   o[\"z\"] = z\r\n   o[\"w\"] = w\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [DOMRect](https://developer.mozilla.org/en/docs/Web/API/DOMRect) to Kotlin\r\n */\r\npublic external open class DOMRect(x: Double = definedExternally, y: Double = definedExternally, width: Double = definedExternally, height: Double = definedExternally) : DOMRectReadOnly {\r\n   override var x: Double\r\n   override var y: Double\r\n   override var width: Double\r\n   override var height: Double\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [DOMRectReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMRectReadOnly) to Kotlin\r\n */\r\npublic external open class DOMRectReadOnly(x: Double, y: Double, width: Double, height: Double) {\r\n   open val x: Double\r\n   open val y: Double\r\n   open val width: Double\r\n   open val height: Double\r\n   open val top: Double\r\n   open val right: Double\r\n   open val bottom: Double\r\n   open val left: Double\r\n}\r\n\r\npublic external interface DOMRectInit {\r\n   var x: Double? /* = 0.0 */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var y: Double? /* = 0.0 */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var width: Double? /* = 0.0 */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var height: Double? /* = 0.0 */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun DOMRectInit(x: Double? = 0.0, y: Double? = 0.0, width: Double? = 0.0, height: Double? = 0.0): DOMRectInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"x\"] = x\r\n   o[\"y\"] = y\r\n   o[\"width\"] = width\r\n   o[\"height\"] = height\r\n\r\n   return o\r\n}\r\n\r\npublic external interface DOMRectList : ItemArrayLike<DOMRect> {\r\n   override fun item(index: Int): DOMRect?\r\n}\r\n\r\n@kotlin.internal.InlineOnly inline operator fun DOMRectList.get(index: Int): DOMRect? = asDynamic()[index]\r\n\r\n/**\r\n * Exposes the JavaScript [DOMQuad](https://developer.mozilla.org/en/docs/Web/API/DOMQuad) to Kotlin\r\n */\r\npublic external open class DOMQuad {\r\n   constructor(p1: DOMPointInit = definedExternally, p2: DOMPointInit = definedExternally, p3: DOMPointInit = definedExternally, p4: DOMPointInit = definedExternally)\r\n   constructor(rect: DOMRectInit)\r\n   open val p1: DOMPoint\r\n   open val p2: DOMPoint\r\n   open val p3: DOMPoint\r\n   open val p4: DOMPoint\r\n   open val bounds: DOMRectReadOnly\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [DOMMatrixReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMMatrixReadOnly) to Kotlin\r\n */\r\npublic external open class DOMMatrixReadOnly(numberSequence: Array<Double>) {\r\n   open val a: Double\r\n   open val b: Double\r\n   open val c: Double\r\n   open val d: Double\r\n   open val e: Double\r\n   open val f: Double\r\n   open val m11: Double\r\n   open val m12: Double\r\n   open val m13: Double\r\n   open val m14: Double\r\n   open val m21: Double\r\n   open val m22: Double\r\n   open val m23: Double\r\n   open val m24: Double\r\n   open val m31: Double\r\n   open val m32: Double\r\n   open val m33: Double\r\n   open val m34: Double\r\n   open val m41: Double\r\n   open val m42: Double\r\n   open val m43: Double\r\n   open val m44: Double\r\n   open val is2D: Boolean\r\n   open val isIdentity: Boolean\r\n   fun translate(tx: Double, ty: Double, tz: Double = definedExternally): DOMMatrix\r\n   fun scale(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\r\n   fun scale3d(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix\r\n   fun scaleNonUniform(scaleX: Double, scaleY: Double = definedExternally, scaleZ: Double = definedExternally, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix\r\n   fun rotate(angle: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\r\n   fun rotateFromVector(x: Double, y: Double): DOMMatrix\r\n   fun rotateAxisAngle(x: Double, y: Double, z: Double, angle: Double): DOMMatrix\r\n   fun skewX(sx: Double): DOMMatrix\r\n   fun skewY(sy: Double): DOMMatrix\r\n   fun multiply(other: DOMMatrix): DOMMatrix\r\n   fun flipX(): DOMMatrix\r\n   fun flipY(): DOMMatrix\r\n   fun inverse(): DOMMatrix\r\n   fun transformPoint(point: DOMPointInit = definedExternally): DOMPoint\r\n   fun toFloat32Array(): Float32Array\r\n

fun toFloat64Array(): Float64Array\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [DOMMatrix](https://developer.mozilla.org/en/docs/Web/API/DOMMatrix) to Kotlin\r\n */\r\npublic external open class DOMMatrix() : DOMMatrixReadOnly {\r\n constructor(transformList: String)\r\n constructor(other: DOMMatrixReadOnly)\r\n constructor(array32: Float32Array)\r\n constructor(array64: Float64Array)\r\n constructor(numberSequence: Array<Double>)\r\n override var a: Double\r\n override var b: Double\r\n override var c: Double\r\n override var d: Double\r\n override var e: Double\r\n override var f: Double\r\n override var m11: Double\r\n override var m12: Double\r\n override var m13: Double\r\n override var m14: Double\r\n override var m21: Double\r\n override var m22: Double\r\n override var m23: Double\r\n override var m24: Double\r\n override var m31: Double\r\n override var m32: Double\r\n override var m33: Double\r\n override var m34: Double\r\n override var m41: Double\r\n override var m42: Double\r\n override var m43: Double\r\n override var m44: Double\r\n fun multiplySelf(other: DOMMatrix): DOMMatrix\r\n fun preMultiplySelf(other: DOMMatrix): DOMMatrix\r\n fun translateSelf(tx: Double, ty: Double, tz: Double = definedExternally): DOMMatrix\r\n fun scaleSelf(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\r\n fun scale3dSelf(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix\r\n fun scaleNonUniformSelf(scaleX: Double, scaleY: Double = definedExternally, scaleZ: Double = definedExternally, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix\r\n fun rotateSelf(angle: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\r\n fun rotateFromVectorSelf(x: Double, y: Double): DOMMatrix\r\n fun rotateAxisAngleSelf(x: Double, y: Double, z: Double, angle: Double): DOMMatrix\r\n fun skewXSelf(sx: Double): DOMMatrix\r\n fun skewYSelf(sy: Double): DOMMatrix\r\n fun invertSelf(): DOMMatrix\r\n fun setMatrixValue(transformList: String): DOMMatrix\r\n}\r\n\r\npublic external interface ScrollOptions {\r\n var behavior: ScrollBehavior? /* = ScrollBehavior.AUTO */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ScrollOptions(behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollOptions {\r\n val o = js(\"({})\")\r\n\r\n o[\"behavior\"] = behavior\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ScrollToOptions](https://developer.mozilla.org/en/docs/Web/API/ScrollToOptions) to Kotlin\r\n */\r\npublic external interface ScrollToOptions : ScrollOptions {\r\n var left: Double?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var top: Double?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ScrollToOptions(left: Double? = undefined, top: Double? = undefined, behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollToOptions {\r\n val o = js(\"({})\")\r\n\r\n o[\"left\"] = left\r\n o[\"top\"] = top\r\n o[\"behavior\"] = behavior\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [MediaQueryList](https://developer.mozilla.org/en/docs/Web/API/MediaQueryList) to Kotlin\r\n */\r\npublic external abstract class MediaQueryList : EventTarget {\r\n open val media: String\r\n open val matches: Boolean\r\n open var onchange: ((Event) -> dynamic)?\r\n fun addListener(listener: EventListener?): Unit\r\n fun addListener(listener: ((Event) -> Unit)?): Unit\r\n fun removeListener(listener: EventListener?): Unit\r\n fun removeListener(listener: ((Event) -> Unit)?): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [MediaQueryListEvent](https://developer.mozilla.org/en/docs/Web/API/MediaQueryListEvent) to Kotlin\r\n */\r\npublic external open class MediaQueryListEvent(type: String, eventInitDict: MediaQueryListEventInit = definedExternally) : Event {\r\n open val media: String\r\n open val matches: Boolean\r\n}\r\n\r\npublic external interface MediaQueryListEventInit : EventInit {\r\n var media: String? /* = \"\" */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var matches: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun MediaQueryListEventInit(media: String? = \"\", matches: Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): MediaQueryListEventInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"media\"] = media\r\n o[\"matches\"] = matches\r\n o[\"bubbles\"] = bubbles\r\n o[\"cancelable\"] = cancelable\r\n o[\"composed\"] = composed\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript

[Screen](https://developer.mozilla.org/en/docs/Web/API/Screen) to Kotlin\r\n */\r\npublic external abstract class Screen {\r\n   open val availWidth: Int\r\n   open val availHeight: Int\r\n   open val width: Int\r\n   open val height: Int\r\n   open val colorDepth: Int\r\n   open val pixelDepth: Int\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CaretPosition](https://developer.mozilla.org/en/docs/Web/API/CaretPosition) to Kotlin\r\n */\r\npublic external abstract class CaretPosition {\r\n   open val offsetNode: Node\r\n   open val offset: Int\r\n   fun getClientRect(): DOMRect?\r\n}\r\n\r\npublic external interface ScrollIntoViewOptions : ScrollOptions {\r\n   var block: ScrollLogicalPosition? /* = ScrollLogicalPosition.CENTER */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var inline: ScrollLogicalPosition? /* = ScrollLogicalPosition.CENTER */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ScrollIntoViewOptions(block: ScrollLogicalPosition? = ScrollLogicalPosition.CENTER, inline: ScrollLogicalPosition? = ScrollLogicalPosition.CENTER, behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollIntoViewOptions {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"block\"] = block\r\n   o[\"inline\"] = inline\r\n   o[\"behavior\"] = behavior\r\n\r\n   return o\r\n}\r\n\r\npublic external interface BoxQuadOptions {\r\n   var box: CSSBoxType? /* = CSSBoxType.BORDER */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var relativeTo: dynamic\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun BoxQuadOptions(box: CSSBoxType? = CSSBoxType.BORDER, relativeTo: dynamic = undefined): BoxQuadOptions {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"box\"] = box\r\n   o[\"relativeTo\"] = relativeTo\r\n\r\n   return o\r\n}\r\n\r\npublic external interface ConvertCoordinateOptions {\r\n   var fromBox: CSSBoxType? /* = CSSBoxType.BORDER */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var toBox: CSSBoxType? /* = CSSBoxType.BORDER */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ConvertCoordinateOptions(fromBox: CSSBoxType? = CSSBoxType.BORDER, toBox: CSSBoxType? = CSSBoxType.BORDER): ConvertCoordinateOptions {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"fromBox\"] = fromBox\r\n   o[\"toBox\"] = toBox\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [GeometryUtils](https://developer.mozilla.org/en/docs/Web/API/GeometryUtils) to Kotlin\r\n */\r\npublic external interface GeometryUtils {\r\n   fun getBoxQuads(options: BoxQuadOptions = definedExternally): Array<DOMQuad>\r\n   fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions = definedExternally): DOMQuad\r\n   fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions = definedExternally): DOMQuad\r\n   fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions = definedExternally): DOMPoint\r\n}\r\n\r\npublic external @marker interface UnionElementOrProcessingInstruction {\r\n}\r\n\r\npublic external @marker interface UnionElementOrHTMLCollection {\r\n}\r\n\r\npublic external @marker interface UnionElementOrRadioNodeList {\r\n}\r\n\r\npublic external @marker interface UnionHTMLOptGroupElementOrHTMLOptionElement {\r\n}\r\n\r\npublic external @marker interface UnionAudioTrackOrTextTrackOrVideoTrack {\r\n}\r\n\r\npublic external @marker interface UnionElementOrMouseEvent {\r\n}\r\n\r\npublic external @marker interface UnionMessagePortOrWindow {\r\n}\r\n\r\npublic external @marker interface UnionMessagePortOrServiceWorker {\r\n}\r\n\r\npublic external @marker interface HTMLOrSVGScriptElement {\r\n}\r\n\r\npublic external @marker interface RenderingContext {\r\n}\r\n\r\npublic external @marker interface HTMLOrSVGImageElement {\r\n}\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface DocumentReadyState {\r\n   companion object\r\n}\r\npublic inline val DocumentReadyState.Companion.LOADING: DocumentReadyState get() = \"loading\".asDynamic().unsafeCast<DocumentReadyState>()\r\npublic inline val DocumentReadyState.Companion.INTERACTIVE: DocumentReadyState get() = \"interactive\".asDynamic().unsafeCast<DocumentReadyState>()\r\npublic inline val DocumentReadyState.Companion.COMPLETE: DocumentReadyState get() = \"complete\".asDynamic().unsafeCast<DocumentReadyState>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface CanPlayTypeResult {\r\n   companion object\r\n}\r\npublic inline val

CanPlayTypeResult.Companion.EMPTY: CanPlayTypeResult get() =
\"\".asDynamic().unsafeCast<CanPlayTypeResult>()\r\npublic inline val CanPlayTypeResult.Companion.MAYBE:
CanPlayTypeResult get() = \"maybe\".asDynamic().unsafeCast<CanPlayTypeResult>()\r\npublic inline val
CanPlayTypeResult.Companion.PROBABLY: CanPlayTypeResult get() =
\"probably\".asDynamic().unsafeCast<CanPlayTypeResult>()\r\n\r\n/* please, don't implement this interface!
*/\r\npublic external interface TextTrackMode {\r\n   companion object\r\n}\r\npublic inline val
TextTrackMode.Companion.DISABLED: TextTrackMode get() =
\"disabled\".asDynamic().unsafeCast<TextTrackMode>()\r\npublic inline val
TextTrackMode.Companion.HIDDEN: TextTrackMode get() =
\"hidden\".asDynamic().unsafeCast<TextTrackMode>()\r\npublic inline val
TextTrackMode.Companion.SHOWING: TextTrackMode get() =
\"showing\".asDynamic().unsafeCast<TextTrackMode>()\r\n\r\n/* please, don't implement this interface!
*/\r\npublic external interface TextTrackKind {\r\n   companion object\r\n}\r\npublic inline val
TextTrackKind.Companion.SUBTITLES: TextTrackKind get() =
\"subtitles\".asDynamic().unsafeCast<TextTrackKind>()\r\npublic inline val
TextTrackKind.Companion.CAPTIONS: TextTrackKind get() =
\"captions\".asDynamic().unsafeCast<TextTrackKind>()\r\npublic inline val
TextTrackKind.Companion.DESCRIPTIONS: TextTrackKind get() =
\"descriptions\".asDynamic().unsafeCast<TextTrackKind>()\r\npublic inline val
TextTrackKind.Companion.CHAPTERS: TextTrackKind get() =
\"chapters\".asDynamic().unsafeCast<TextTrackKind>()\r\npublic inline val
TextTrackKind.Companion.METADATA: TextTrackKind get() =
\"metadata\".asDynamic().unsafeCast<TextTrackKind>()\r\n\r\n/* please, don't implement this interface!
*/\r\npublic external interface SelectionMode {\r\n   companion object\r\n}\r\npublic inline val
SelectionMode.Companion.SELECT: SelectionMode get() =
\"select\".asDynamic().unsafeCast<SelectionMode>()\r\npublic inline val SelectionMode.Companion.START:
SelectionMode get() = \"start\".asDynamic().unsafeCast<SelectionMode>()\r\npublic inline val
SelectionMode.Companion.END: SelectionMode get() =
\"end\".asDynamic().unsafeCast<SelectionMode>()\r\npublic inline val SelectionMode.Companion.PRESERVE:
SelectionMode get() = \"preserve\".asDynamic().unsafeCast<SelectionMode>()\r\n\r\n/* please, don't implement
this interface! */\r\npublic external interface CanvasFillRule {\r\n   companion object\r\n}\r\npublic inline val
CanvasFillRule.Companion.NONZERO: CanvasFillRule get() =
\"nonzero\".asDynamic().unsafeCast<CanvasFillRule>()\r\npublic inline val
CanvasFillRule.Companion.EVENODD: CanvasFillRule get() =
\"evenodd\".asDynamic().unsafeCast<CanvasFillRule>()\r\n\r\n/* please, don't implement this interface!
*/\r\npublic external interface ImageSmoothingQuality {\r\n   companion object\r\n}\r\npublic inline val
ImageSmoothingQuality.Companion.LOW: ImageSmoothingQuality get() =
\"low\".asDynamic().unsafeCast<ImageSmoothingQuality>()\r\npublic inline val
ImageSmoothingQuality.Companion.MEDIUM: ImageSmoothingQuality get() =
\"medium\".asDynamic().unsafeCast<ImageSmoothingQuality>()\r\npublic inline val
ImageSmoothingQuality.Companion.HIGH: ImageSmoothingQuality get() =
\"high\".asDynamic().unsafeCast<ImageSmoothingQuality>()\r\n\r\n/* please, don't implement this interface!
*/\r\npublic external interface CanvasLineCap {\r\n   companion object\r\n}\r\npublic inline val
CanvasLineCap.Companion.BUTT: CanvasLineCap get() =
\"butt\".asDynamic().unsafeCast<CanvasLineCap>()\r\npublic inline val CanvasLineCap.Companion.ROUND:
CanvasLineCap get() = \"round\".asDynamic().unsafeCast<CanvasLineCap>()\r\npublic inline val
CanvasLineCap.Companion.SQUARE: CanvasLineCap get() =
\"square\".asDynamic().unsafeCast<CanvasLineCap>()\r\n\r\n/* please, don't implement this interface! */\r\npublic

external interface CanvasLineJoin {\r\n   companion object\r\n}\r\npublic inline val CanvasLineJoin.Companion.ROUND: CanvasLineJoin get() = \"round\".asDynamic().unsafeCast<CanvasLineJoin>()\r\npublic inline val CanvasLineJoin.Companion.BEVEL: CanvasLineJoin get() = \"bevel\".asDynamic().unsafeCast<CanvasLineJoin>()\r\npublic inline val CanvasLineJoin.Companion.MITER: CanvasLineJoin get() = \"miter\".asDynamic().unsafeCast<CanvasLineJoin>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface CanvasTextAlign {\r\n   companion object\r\n}\r\npublic inline val CanvasTextAlign.Companion.START: CanvasTextAlign get() = \"start\".asDynamic().unsafeCast<CanvasTextAlign>()\r\npublic inline val CanvasTextAlign.Companion.END: CanvasTextAlign get() = \"end\".asDynamic().unsafeCast<CanvasTextAlign>()\r\npublic inline val CanvasTextAlign.Companion.LEFT: CanvasTextAlign get() = \"left\".asDynamic().unsafeCast<CanvasTextAlign>()\r\npublic inline val CanvasTextAlign.Companion.RIGHT: CanvasTextAlign get() = \"right\".asDynamic().unsafeCast<CanvasTextAlign>()\r\npublic inline val CanvasTextAlign.Companion.CENTER: CanvasTextAlign get() = \"center\".asDynamic().unsafeCast<CanvasTextAlign>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface CanvasTextBaseline {\r\n   companion object\r\n}\r\npublic inline val CanvasTextBaseline.Companion.TOP: CanvasTextBaseline get() = \"top\".asDynamic().unsafeCast<CanvasTextBaseline>()\r\npublic inline val CanvasTextBaseline.Companion.HANGING: CanvasTextBaseline get() = \"hanging\".asDynamic().unsafeCast<CanvasTextBaseline>()\r\npublic inline val CanvasTextBaseline.Companion.MIDDLE: CanvasTextBaseline get() = \"middle\".asDynamic().unsafeCast<CanvasTextBaseline>()\r\npublic inline val CanvasTextBaseline.Companion.ALPHABETIC: CanvasTextBaseline get() = \"alphabetic\".asDynamic().unsafeCast<CanvasTextBaseline>()\r\npublic inline val CanvasTextBaseline.Companion.IDEOGRAPHIC: CanvasTextBaseline get() = \"ideographic\".asDynamic().unsafeCast<CanvasTextBaseline>()\r\npublic inline val CanvasTextBaseline.Companion.BOTTOM: CanvasTextBaseline get() = \"bottom\".asDynamic().unsafeCast<CanvasTextBaseline>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface CanvasDirection {\r\n   companion object\r\n}\r\npublic inline val CanvasDirection.Companion.LTR: CanvasDirection get() = \"ltr\".asDynamic().unsafeCast<CanvasDirection>()\r\npublic inline val CanvasDirection.Companion.RTL: CanvasDirection get() = \"rtl\".asDynamic().unsafeCast<CanvasDirection>()\r\npublic inline val CanvasDirection.Companion.INHERIT: CanvasDirection get() = \"inherit\".asDynamic().unsafeCast<CanvasDirection>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface ScrollRestoration {\r\n   companion object\r\n}\r\npublic inline val ScrollRestoration.Companion.AUTO: ScrollRestoration get() = \"auto\".asDynamic().unsafeCast<ScrollRestoration>()\r\npublic inline val ScrollRestoration.Companion.MANUAL: ScrollRestoration get() = \"manual\".asDynamic().unsafeCast<ScrollRestoration>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface ImageOrientation {\r\n   companion object\r\n}\r\npublic inline val ImageOrientation.Companion.NONE: ImageOrientation get() = \"none\".asDynamic().unsafeCast<ImageOrientation>()\r\npublic inline val ImageOrientation.Companion.FLIPY: ImageOrientation get() = \"flipY\".asDynamic().unsafeCast<ImageOrientation>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface PremultiplyAlpha {\r\n   companion object\r\n}\r\npublic inline val PremultiplyAlpha.Companion.NONE: PremultiplyAlpha get() = \"none\".asDynamic().unsafeCast<PremultiplyAlpha>()\r\npublic inline val PremultiplyAlpha.Companion.PREMULTIPLY: PremultiplyAlpha get() = \"premultiply\".asDynamic().unsafeCast<PremultiplyAlpha>()\r\npublic inline val

PremultiplyAlpha.Companion.DEFAULT: PremultiplyAlpha get() =
\"default\".asDynamic().unsafeCast<PremultiplyAlpha>()\r\n\r\n/* please, don't implement this interface!
*/\r\npublic external interface ColorSpaceConversion {\r\n   companion object\r\n}\r\npublic inline val
ColorSpaceConversion.Companion.NONE: ColorSpaceConversion get() =
\"none\".asDynamic().unsafeCast<ColorSpaceConversion>()\r\npublic inline val
ColorSpaceConversion.Companion.DEFAULT: ColorSpaceConversion get() =
\"default\".asDynamic().unsafeCast<ColorSpaceConversion>()\r\n\r\n/* please, don't implement this interface!
*/\r\npublic external interface ResizeQuality {\r\n   companion object\r\n}\r\npublic inline val
ResizeQuality.Companion.PIXELATED: ResizeQuality get() =
\"pixelated\".asDynamic().unsafeCast<ResizeQuality>()\r\npublic inline val ResizeQuality.Companion.LOW:
ResizeQuality get() = \"low\".asDynamic().unsafeCast<ResizeQuality>()\r\npublic inline val
ResizeQuality.Companion.MEDIUM: ResizeQuality get() =
\"medium\".asDynamic().unsafeCast<ResizeQuality>()\r\npublic inline val ResizeQuality.Companion.HIGH:
ResizeQuality get() = \"high\".asDynamic().unsafeCast<ResizeQuality>()\r\n\r\n/* please, don't implement this
interface! */\r\npublic external interface BinaryType {\r\n   companion object\r\n}\r\npublic inline val
BinaryType.Companion.BLOB: BinaryType get() = \"blob\".asDynamic().unsafeCast<BinaryType>()\r\npublic
inline val BinaryType.Companion.ARRAYBUFFER: BinaryType get() =
\"arraybuffer\".asDynamic().unsafeCast<BinaryType>()\r\n\r\n/* please, don't implement this interface! */\r\npublic
external interface WorkerType {\r\n   companion object\r\n}\r\npublic inline val
WorkerType.Companion.CLASSIC: WorkerType get() =
\"classic\".asDynamic().unsafeCast<WorkerType>()\r\npublic inline val WorkerType.Companion.MODULE:
WorkerType get() = \"module\".asDynamic().unsafeCast<WorkerType>()\r\n\r\n/* please, don't implement this
interface! */\r\npublic external interface ShadowRootMode {\r\n   companion object\r\n}\r\npublic inline val
ShadowRootMode.Companion.OPEN: ShadowRootMode get() =
\"open\".asDynamic().unsafeCast<ShadowRootMode>()\r\npublic inline val
ShadowRootMode.Companion.CLOSED: ShadowRootMode get() =
\"closed\".asDynamic().unsafeCast<ShadowRootMode>()\r\n\r\n/* please, don't implement this interface!
*/\r\npublic external interface ScrollBehavior {\r\n   companion object\r\n}\r\npublic inline val
ScrollBehavior.Companion.AUTO: ScrollBehavior get() =
\"auto\".asDynamic().unsafeCast<ScrollBehavior>()\r\npublic inline val ScrollBehavior.Companion.INSTANT:
ScrollBehavior get() = \"instant\".asDynamic().unsafeCast<ScrollBehavior>()\r\npublic inline val
ScrollBehavior.Companion.SMOOTH: ScrollBehavior get() =
\"smooth\".asDynamic().unsafeCast<ScrollBehavior>()\r\n\r\n/* please, don't implement this interface! */\r\npublic
external interface ScrollLogicalPosition {\r\n   companion object\r\n}\r\npublic inline val
ScrollLogicalPosition.Companion.START: ScrollLogicalPosition get() =
\"start\".asDynamic().unsafeCast<ScrollLogicalPosition>()\r\npublic inline val
ScrollLogicalPosition.Companion.CENTER: ScrollLogicalPosition get() =
\"center\".asDynamic().unsafeCast<ScrollLogicalPosition>()\r\npublic inline val
ScrollLogicalPosition.Companion.END: ScrollLogicalPosition get() =
\"end\".asDynamic().unsafeCast<ScrollLogicalPosition>()\r\npublic inline val
ScrollLogicalPosition.Companion.NEAREST: ScrollLogicalPosition get() =
\"nearest\".asDynamic().unsafeCast<ScrollLogicalPosition>()\r\n\r\n/* please, don't implement this interface!
*/\r\npublic external interface CSSBoxType {\r\n   companion object\r\n}\r\npublic inline val
CSSBoxType.Companion.MARGIN: CSSBoxType get() =
\"margin\".asDynamic().unsafeCast<CSSBoxType>()\r\npublic inline val CSSBoxType.Companion.BORDER:
CSSBoxType get() = \"border\".asDynamic().unsafeCast<CSSBoxType>()\r\npublic inline val
CSSBoxType.Companion.PADDING: CSSBoxType get() =
\"padding\".asDynamic().unsafeCast<CSSBoxType>()\r\npublic inline val CSSBoxType.Companion.CONTENT:

CSSBoxType get() = \"content\".asDynamic().unsafeCast<CSSBoxType>()\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\r\n// See libraries/tools/idl2k for details\r\n\r\n@file:Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\r\npackage org.w3c.fetch\r\n\r\nimport kotlin.js.*\r\nimport org.khronos.webgl.*\r\nimport org.w3c.css.masking.*\r\nimport org.w3c.dom.*\r\nimport org.w3c.dom.clipboard.*\r\nimport org.w3c.dom.css.*\r\nimport org.w3c.dom.events.*\r\nimport org.w3c.dom.mediacapture.*\r\nimport org.w3c.dom.parsing.*\r\nimport org.w3c.dom.pointerevents.*\r\nimport org.w3c.dom.svg.*\r\nimport org.w3c.dom.url.*\r\nimport org.w3c.files.*\r\nimport org.w3c.notifications.*\r\nimport org.w3c.performance.*\r\nimport org.w3c.workers.*\r\nimport org.w3c.xhr.*\r\n\r\n/**\r\n * Exposes the JavaScript [Headers](https://developer.mozilla.org/en/docs/Web/API/Headers) to Kotlin\r\n */\r\npublic external open class Headers(init: dynamic = definedExternally) {\r\n fun append(name: String, value: String): Unit\r\n fun delete(name: String): Unit\r\n fun get(name: String): String?\r\n fun has(name: String): Boolean\r\n fun set(name: String, value: String): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Body](https://developer.mozilla.org/en/docs/Web/API/Body) to Kotlin\r\n */\r\npublic external interface Body {\r\n val bodyUsed: Boolean\r\n fun arrayBuffer(): Promise<ArrayBuffer>\r\n fun blob(): Promise<Blob>\r\n fun formData(): Promise<FormData>\r\n fun json(): Promise<Any?>\r\n fun text(): Promise<String>\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Request](https://developer.mozilla.org/en/docs/Web/API/Request) to Kotlin\r\n */\r\npublic external open class Request(input: dynamic, init: RequestInit = definedExternally) : Body {\r\n open val method: String\r\n open val url: String\r\n open val headers: Headers\r\n open val type: RequestType\r\n open val destination: RequestDestination\r\n open val referrer: String\r\n open val referrerPolicy: dynamic\r\n open val mode: RequestMode\r\n open val credentials: RequestCredentials\r\n open val cache: RequestCache\r\n open val redirect: RequestRedirect\r\n open val integrity: String\r\n open val keepalive: Boolean\r\n override val bodyUsed: Boolean\r\n fun clone(): Request\r\n override fun arrayBuffer(): Promise<ArrayBuffer>\r\n override fun blob(): Promise<Blob>\r\n override fun formData(): Promise<FormData>\r\n override fun json(): Promise<Any?>\r\n override fun text(): Promise<String>\r\n}\r\n\r\npublic external interface RequestInit {\r\n var method: String?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var headers: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var body: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var referrer: String?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var referrerPolicy: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var mode: RequestMode?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var credentials: RequestCredentials?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var cache: RequestCache?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var redirect: RequestRedirect?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var integrity: String?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var keepalive: Boolean?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var window: Any?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun RequestInit(method: String? = undefined, headers: dynamic = undefined, body: dynamic = undefined, referrer: String? = undefined, referrerPolicy: dynamic = undefined, mode: RequestMode? = undefined, credentials: RequestCredentials? = undefined, cache: RequestCache? = undefined, redirect: RequestRedirect? = undefined, integrity: String? = undefined, keepalive: Boolean? = undefined, window: Any? = undefined): RequestInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"method\"] = method\r\n o[\"headers\"] = headers\r\n o[\"body\"] = body\r\n o[\"referrer\"] = referrer\r\n o[\"referrerPolicy\"] = referrerPolicy\r\n o[\"mode\"] = mode\r\n o[\"credentials\"] = credentials\r\n o[\"cache\"] = cache\r\n o[\"redirect\"] = redirect\r\n o[\"integrity\"] = integrity\r\n o[\"keepalive\"] = keepalive\r\n o[\"window\"] = window\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the

JavaScript [Response](https://developer.mozilla.org/en/docs/Web/API/Response) to Kotlin\r\n */\r\npublic external open class Response(body: dynamic = definedExternally, init: ResponseInit = definedExternally) : Body {\r\n open val type: ResponseType\r\n open val url: String\r\n open val redirected: Boolean\r\n open val status: Short\r\n open val ok: Boolean\r\n open val statusText: String\r\n open val headers: Headers\r\n open val body: dynamic\r\n open val trailer: Promise<Headers>\r\n override val bodyUsed: Boolean\r\n fun clone(): Response\r\n override fun arrayBuffer(): Promise<ArrayBuffer>\r\n override fun blob(): Promise<Blob>\r\n override fun formData(): Promise<FormData>\r\n override fun json(): Promise<Any?>\r\n override fun text(): Promise<String>\r\n\r\n companion object {\r\n fun error(): Response\r\n fun redirect(url: String, status: Short = definedExternally): Response\r\n }\r\n}\r\n\r\npublic external interface ResponseInit {\r\n var status: Short? /* = 200 */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var statusText: String? /* = \"OK\" */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var headers: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ResponseInit(status: Short? = 200, statusText: String? = \"OK\", headers: dynamic = undefined): ResponseInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"status\"] = status\r\n o[\"statusText\"] = statusText\r\n o[\"headers\"] = headers\r\n\r\n return o\r\n}\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface RequestType {\r\n companion object\r\n}\r\npublic inline val RequestType.Companion.EMPTY: RequestType get() = \"\".asDynamic().unsafeCast<RequestType>()\r\npublic inline val RequestType.Companion.AUDIO: RequestType get() = \"audio\".asDynamic().unsafeCast<RequestType>()\r\npublic inline val RequestType.Companion.FONT: RequestType get() = \"font\".asDynamic().unsafeCast<RequestType>()\r\npublic inline val RequestType.Companion.IMAGE: RequestType get() = \"image\".asDynamic().unsafeCast<RequestType>()\r\npublic inline val RequestType.Companion.SCRIPT: RequestType get() = \"script\".asDynamic().unsafeCast<RequestType>()\r\npublic inline val RequestType.Companion.STYLE: RequestType get() = \"style\".asDynamic().unsafeCast<RequestType>()\r\npublic inline val RequestType.Companion.TRACK: RequestType get() = \"track\".asDynamic().unsafeCast<RequestType>()\r\npublic inline val RequestType.Companion.VIDEO: RequestType get() = \"video\".asDynamic().unsafeCast<RequestType>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface RequestDestination {\r\n companion object\r\n}\r\npublic inline val RequestDestination.Companion.EMPTY: RequestDestination get() = \"\".asDynamic().unsafeCast<RequestDestination>()\r\npublic inline val RequestDestination.Companion.DOCUMENT: RequestDestination get() = \"document\".asDynamic().unsafeCast<RequestDestination>()\r\npublic inline val RequestDestination.Companion.EMBED: RequestDestination get() = \"embed\".asDynamic().unsafeCast<RequestDestination>()\r\npublic inline val RequestDestination.Companion.FONT: RequestDestination get() = \"font\".asDynamic().unsafeCast<RequestDestination>()\r\npublic inline val RequestDestination.Companion.IMAGE: RequestDestination get() = \"image\".asDynamic().unsafeCast<RequestDestination>()\r\npublic inline val RequestDestination.Companion.MANIFEST: RequestDestination get() = \"manifest\".asDynamic().unsafeCast<RequestDestination>()\r\npublic inline val RequestDestination.Companion.MEDIA: RequestDestination get() = \"media\".asDynamic().unsafeCast<RequestDestination>()\r\npublic inline val RequestDestination.Companion.OBJECT: RequestDestination get() = \"object\".asDynamic().unsafeCast<RequestDestination>()\r\npublic inline val RequestDestination.Companion.REPORT: RequestDestination get() = \"report\".asDynamic().unsafeCast<RequestDestination>()\r\npublic inline val RequestDestination.Companion.SCRIPT: RequestDestination get() =

\"script\".asDynamic().unsafeCast<RequestDestination>()\r\npublic inline val RequestDestination.Companion.SERVICEWORKER: RequestDestination get() = \"serviceworker\".asDynamic().unsafeCast<RequestDestination>()\r\npublic inline val RequestDestination.Companion.SHAREDWORKER: RequestDestination get() = \"sharedworker\".asDynamic().unsafeCast<RequestDestination>()\r\npublic inline val RequestDestination.Companion.STYLE: RequestDestination get() = \"style\".asDynamic().unsafeCast<RequestDestination>()\r\npublic inline val RequestDestination.Companion.WORKER: RequestDestination get() = \"worker\".asDynamic().unsafeCast<RequestDestination>()\r\npublic inline val RequestDestination.Companion.XSLT: RequestDestination get() = \"xslt\".asDynamic().unsafeCast<RequestDestination>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface RequestMode {\r\n   companion object\r\n}\r\npublic inline val RequestMode.Companion.NAVIGATE: RequestMode get() = \"navigate\".asDynamic().unsafeCast<RequestMode>()\r\npublic inline val RequestMode.Companion.SAME_ORIGIN: RequestMode get() = \"same-origin\".asDynamic().unsafeCast<RequestMode>()\r\npublic inline val RequestMode.Companion.NO_CORS: RequestMode get() = \"no-cors\".asDynamic().unsafeCast<RequestMode>()\r\npublic inline val RequestMode.Companion.CORS: RequestMode get() = \"cors\".asDynamic().unsafeCast<RequestMode>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface RequestCredentials {\r\n   companion object\r\n}\r\npublic inline val RequestCredentials.Companion.OMIT: RequestCredentials get() = \"omit\".asDynamic().unsafeCast<RequestCredentials>()\r\npublic inline val RequestCredentials.Companion.SAME_ORIGIN: RequestCredentials get() = \"same-origin\".asDynamic().unsafeCast<RequestCredentials>()\r\npublic inline val RequestCredentials.Companion.INCLUDE: RequestCredentials get() = \"include\".asDynamic().unsafeCast<RequestCredentials>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface RequestCache {\r\n   companion object\r\n}\r\npublic inline val RequestCache.Companion.DEFAULT: RequestCache get() = \"default\".asDynamic().unsafeCast<RequestCache>()\r\npublic inline val RequestCache.Companion.NO_STORE: RequestCache get() = \"no-store\".asDynamic().unsafeCast<RequestCache>()\r\npublic inline val RequestCache.Companion.RELOAD: RequestCache get() = \"reload\".asDynamic().unsafeCast<RequestCache>()\r\npublic inline val RequestCache.Companion.NO_CACHE: RequestCache get() = \"no-cache\".asDynamic().unsafeCast<RequestCache>()\r\npublic inline val RequestCache.Companion.FORCE_CACHE: RequestCache get() = \"force-cache\".asDynamic().unsafeCast<RequestCache>()\r\npublic inline val RequestCache.Companion.ONLY_IF_CACHED: RequestCache get() = \"only-if-cached\".asDynamic().unsafeCast<RequestCache>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface RequestRedirect {\r\n   companion object\r\n}\r\npublic inline val RequestRedirect.Companion.FOLLOW: RequestRedirect get() = \"follow\".asDynamic().unsafeCast<RequestRedirect>()\r\npublic inline val RequestRedirect.Companion.ERROR: RequestRedirect get() = \"error\".asDynamic().unsafeCast<RequestRedirect>()\r\npublic inline val RequestRedirect.Companion.MANUAL: RequestRedirect get() = \"manual\".asDynamic().unsafeCast<RequestRedirect>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface ResponseType {\r\n   companion object\r\n}\r\npublic inline val ResponseType.Companion.BASIC: ResponseType get() = \"basic\".asDynamic().unsafeCast<ResponseType>()\r\npublic inline val ResponseType.Companion.CORS: ResponseType get() = \"cors\".asDynamic().unsafeCast<ResponseType>()\r\npublic inline val ResponseType.Companion.DEFAULT: ResponseType get() = \"default\".asDynamic().unsafeCast<ResponseType>()\r\npublic inline val ResponseType.Companion.ERROR:

ResponseType get() = \"error\".asDynamic().unsafeCast<ResponseType>()\r\npublic inline val ResponseType.Companion.OPAQUE: ResponseType get() = \"opaque\".asDynamic().unsafeCast<ResponseType>()\r\npublic inline val ResponseType.Companion.OPAQUEREDIRECT: ResponseType get() = \"opaqueredirect\".asDynamic().unsafeCast<ResponseType>()\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\r\n// See libraries/tools/idl2k for details\r\n\r\n@file:Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\r\npackage org.w3c.dom.mediacapture\r\n\r\nimport kotlin.js.*\r\nimport org.khronos.webgl.*\r\nimport org.w3c.css.masking.*\r\nimport org.w3c.dom.*\r\nimport org.w3c.dom.clipboard.*\r\nimport org.w3c.dom.css.*\r\nimport org.w3c.dom.events.*\r\nimport org.w3c.dom.parsing.*\r\nimport org.w3c.dom.pointerevents.*\r\nimport org.w3c.dom.svg.*\r\nimport org.w3c.dom.url.*\r\nimport org.w3c.fetch.*\r\nimport org.w3c.files.*\r\nimport org.w3c.notifications.*\r\nimport org.w3c.performance.*\r\nimport org.w3c.workers.*\r\nimport org.w3c.xhr.*\r\n\r\n/**\r\n * Exposes the JavaScript [MediaStream](https://developer.mozilla.org/en/docs/Web/API/MediaStream) to Kotlin\r\n */\r\npublic external open class MediaStream() : EventTarget {\r\n   constructor(stream: MediaStream)\r\n   constructor(tracks: Array<MediaStreamTrack>)\r\n   open val id: String\r\n   open val active: Boolean\r\n   var onaddtrack: ((MediaStreamTrackEvent) -> dynamic)?\r\n   var onremovetrack: ((MediaStreamTrackEvent) -> dynamic)?\r\n   fun getAudioTracks(): Array<MediaStreamTrack>\r\n   fun getVideoTracks(): Array<MediaStreamTrack>\r\n   fun getTracks(): Array<MediaStreamTrack>\r\n   fun getTrackById(trackId: String): MediaStreamTrack?\r\n   fun addTrack(track: MediaStreamTrack): Unit\r\n   fun removeTrack(track: MediaStreamTrack): Unit\r\n   fun clone(): MediaStream\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [MediaStreamTrack](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrack) to Kotlin\r\n */\r\npublic external abstract class MediaStreamTrack : EventTarget {\r\n   open val kind: String\r\n   open val id: String\r\n   open val label: String\r\n   open var enabled: Boolean\r\n   open val muted: Boolean\r\n   open var onmute: ((Event) -> dynamic)?\r\n   open var onunmute: ((Event) -> dynamic)?\r\n   open val readyState: MediaStreamTrackState\r\n   open var onended: ((Event) -> dynamic)?\r\n   open var onoverconstrained: ((Event) -> dynamic)?\r\n   fun clone(): MediaStreamTrack\r\n   fun stop(): Unit\r\n   fun getCapabilities(): MediaTrackCapabilities\r\n   fun getConstraints(): MediaTrackConstraints\r\n   fun getSettings(): MediaTrackSettings\r\n   fun applyConstraints(constraints: MediaTrackConstraints = definedExternally): Promise<Unit>\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [MediaTrackSupportedConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSupportedConstraints) to Kotlin\r\n */\r\npublic external interface MediaTrackSupportedConstraints {\r\n   var width: Boolean? /* = true */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var height: Boolean? /* = true */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var aspectRatio: Boolean? /* = true */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var frameRate: Boolean? /* = true */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var facingMode: Boolean? /* = true */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var resizeMode: Boolean? /* = true */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var volume: Boolean? /* = true */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var sampleRate: Boolean? /* = true */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var sampleSize: Boolean? /* = true */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var echoCancellation: Boolean? /* = true */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var autoGainControl: Boolean? /* = true */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var noiseSuppression: Boolean? /* = true */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var latency: Boolean? /* = true */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var channelCount: Boolean? /* = true */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n

var deviceId: Boolean? /* = true */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var groupId: Boolean? /* = true */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun MediaTrackSupportedConstraints(width: Boolean? = true, height: Boolean? = true, aspectRatio: Boolean? = true, frameRate: Boolean? = true, facingMode: Boolean? = true, resizeMode: Boolean? = true, volume: Boolean? = true, sampleRate: Boolean? = true, sampleSize: Boolean? = true, echoCancellation: Boolean? = true, autoGainControl: Boolean? = true, noiseSuppression: Boolean? = true, latency: Boolean? = true, channelCount: Boolean? = true, deviceId: Boolean? = true, groupId: Boolean? = true): MediaTrackSupportedConstraints {\r\n val o = js(\"({})\")\r\n\r\n o[\"width\"] = width\r\n o[\"height\"] = height\r\n o[\"aspectRatio\"] = aspectRatio\r\n o[\"frameRate\"] = frameRate\r\n o[\"facingMode\"] = facingMode\r\n o[\"resizeMode\"] = resizeMode\r\n o[\"volume\"] = volume\r\n o[\"sampleRate\"] = sampleRate\r\n o[\"sampleSize\"] = sampleSize\r\n o[\"echoCancellation\"] = echoCancellation\r\n o[\"autoGainControl\"] = autoGainControl\r\n o[\"noiseSuppression\"] = noiseSuppression\r\n o[\"latency\"] = latency\r\n o[\"channelCount\"] = channelCount\r\n o[\"deviceId\"] = deviceId\r\n o[\"groupId\"] = groupId\r\n\r\n return o\r\n}\r\n\r\npublic external interface MediaTrackCapabilities {\r\n var width: ULongRange?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var height: ULongRange?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var aspectRatio: DoubleRange?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var frameRate: DoubleRange?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var facingMode: Array<String>?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var resizeMode: Array<String>?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var volume: DoubleRange?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var sampleRate: ULongRange?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var sampleSize: ULongRange?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var echoCancellation: Array<Boolean>?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var autoGainControl: Array<Boolean>?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var noiseSuppression: Array<Boolean>?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var latency: DoubleRange?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var channelCount: ULongRange?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var deviceId: String?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var groupId: String?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun MediaTrackCapabilities(width: ULongRange? = undefined, height: ULongRange? = undefined, aspectRatio: DoubleRange? = undefined, frameRate: DoubleRange? = undefined, facingMode: Array<String>? = undefined, resizeMode: Array<String>? = undefined, volume: DoubleRange? = undefined, sampleRate: ULongRange? = undefined, sampleSize: ULongRange? = undefined, echoCancellation: Array<Boolean>? = undefined, autoGainControl: Array<Boolean>? = undefined, noiseSuppression: Array<Boolean>? = undefined, latency: DoubleRange? = undefined, channelCount: ULongRange? = undefined, deviceId: String? = undefined, groupId: String? = undefined): MediaTrackCapabilities {\r\n val o = js(\"({})\")\r\n\r\n o[\"width\"] = width\r\n o[\"height\"] = height\r\n o[\"aspectRatio\"] = aspectRatio\r\n o[\"frameRate\"] = frameRate\r\n o[\"facingMode\"] = facingMode\r\n o[\"resizeMode\"] = resizeMode\r\n o[\"volume\"] = volume\r\n o[\"sampleRate\"] = sampleRate\r\n o[\"sampleSize\"] = sampleSize\r\n o[\"echoCancellation\"] = echoCancellation\r\n o[\"autoGainControl\"] = autoGainControl\r\n o[\"noiseSuppression\"] = noiseSuppression\r\n o[\"latency\"] = latency\r\n o[\"channelCount\"] = channelCount\r\n o[\"deviceId\"] = deviceId\r\n o[\"groupId\"] = groupId\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [MediaTrackConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackConstraints) to Kotlin\r\n */\r\npublic external interface MediaTrackConstraints : MediaTrackConstraintSet {\r\n var advanced: Array<MediaTrackConstraintSet>?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun MediaTrackConstraints(advanced:

Array<MediaTrackConstraintSet>? = undefined, width: dynamic = undefined, height: dynamic = undefined, aspectRatio: dynamic = undefined, frameRate: dynamic = undefined, facingMode: dynamic = undefined, resizeMode: dynamic = undefined, volume: dynamic = undefined, sampleRate: dynamic = undefined, sampleSize: dynamic = undefined, echoCancellation: dynamic = undefined, autoGainControl: dynamic = undefined, noiseSuppression: dynamic = undefined, latency: dynamic = undefined, channelCount: dynamic = undefined, deviceId: dynamic = undefined, groupId: dynamic = undefined): MediaTrackConstraints {\r\n val o = js(\"({})\")\r\n\r\n o[\"advanced\"] = advanced\r\n o[\"width\"] = width\r\n o[\"height\"] = height\r\n o[\"aspectRatio\"] = aspectRatio\r\n o[\"frameRate\"] = frameRate\r\n o[\"facingMode\"] = facingMode\r\n o[\"resizeMode\"] = resizeMode\r\n o[\"volume\"] = volume\r\n o[\"sampleRate\"] = sampleRate\r\n o[\"sampleSize\"] = sampleSize\r\n o[\"echoCancellation\"] = echoCancellation\r\n o[\"autoGainControl\"] = autoGainControl\r\n o[\"noiseSuppression\"] = noiseSuppression\r\n o[\"latency\"] = latency\r\n o[\"channelCount\"] = channelCount\r\n o[\"deviceId\"] = deviceId\r\n o[\"groupId\"] = groupId\r\n\r\n return o\r\n}\r\n\r\npublic external interface MediaTrackConstraintSet {\r\n var width: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var height: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var aspectRatio: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var frameRate: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var facingMode: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var resizeMode: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var volume: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var sampleRate: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var sampleSize: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var echoCancellation: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var autoGainControl: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var noiseSuppression: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var latency: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var channelCount: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var deviceId: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var groupId: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun MediaTrackConstraintSet(width: dynamic = undefined, height: dynamic = undefined, aspectRatio: dynamic = undefined, frameRate: dynamic = undefined, facingMode: dynamic = undefined, resizeMode: dynamic = undefined, volume: dynamic = undefined, sampleRate: dynamic = undefined, sampleSize: dynamic = undefined, echoCancellation: dynamic = undefined, autoGainControl: dynamic = undefined, noiseSuppression: dynamic = undefined, latency: dynamic = undefined, channelCount: dynamic = undefined, deviceId: dynamic = undefined, groupId: dynamic = undefined): MediaTrackConstraintSet {\r\n val o = js(\"({})\")\r\n\r\n o[\"width\"] = width\r\n o[\"height\"] = height\r\n o[\"aspectRatio\"] = aspectRatio\r\n o[\"frameRate\"] = frameRate\r\n o[\"facingMode\"] = facingMode\r\n o[\"resizeMode\"] = resizeMode\r\n o[\"volume\"] = volume\r\n o[\"sampleRate\"] = sampleRate\r\n o[\"sampleSize\"] = sampleSize\r\n o[\"echoCancellation\"] = echoCancellation\r\n o[\"autoGainControl\"] = autoGainControl\r\n o[\"noiseSuppression\"] = noiseSuppression\r\n o[\"latency\"] = latency\r\n o[\"channelCount\"] = channelCount\r\n o[\"deviceId\"] = deviceId\r\n o[\"groupId\"] = groupId\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [MediaTrackSettings](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSettings) to Kotlin\r\n */\r\npublic external interface MediaTrackSettings {\r\n var width: Int?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var height: Int?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var aspectRatio: Double?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var frameRate: Double?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var facingMode: String?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var resizeMode: String?\r\n get() = definedExternally\r\n set(value) =

definedExternally\r\n   var volume: Double?\r\n   get() = definedExternally\r\n   set(value) =
definedExternally\r\n   var sampleRate: Int?\r\n   get() = definedExternally\r\n   set(value) =
definedExternally\r\n   var sampleSize: Int?\r\n   get() = definedExternally\r\n   set(value) =
definedExternally\r\n   var echoCancellation: Boolean?\r\n   get() = definedExternally\r\n   set(value) =
definedExternally\r\n   var autoGainControl: Boolean?\r\n   get() = definedExternally\r\n   set(value) =
definedExternally\r\n   var noiseSuppression: Boolean?\r\n   get() = definedExternally\r\n   set(value) =
definedExternally\r\n   var latency: Double?\r\n   get() = definedExternally\r\n   set(value) =
definedExternally\r\n   var channelCount: Int?\r\n   get() = definedExternally\r\n   set(value) =
definedExternally\r\n   var deviceId: String?\r\n   get() = definedExternally\r\n   set(value) =
definedExternally\r\n   var groupId: String?\r\n   get() = definedExternally\r\n   set(value) =
definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun MediaTrackSettings(width: Int? =
undefined, height: Int? = undefined, aspectRatio: Double? = undefined, frameRate: Double? = undefined,
facingMode: String? = undefined, resizeMode: String? = undefined, volume: Double? = undefined, sampleRate: Int?
= undefined, sampleSize: Int? = undefined, echoCancellation: Boolean? = undefined, autoGainControl: Boolean? =
undefined, noiseSuppression: Boolean? = undefined, latency: Double? = undefined, channelCount: Int? = undefined,
deviceId: String? = undefined, groupId: String? = undefined): MediaTrackSettings {\r\n   val o = js(\"({})\")\r\n\r\n
o[\"width\"] = width\r\n   o[\"height\"] = height\r\n   o[\"aspectRatio\"] = aspectRatio\r\n   o[\"frameRate\"] =
frameRate\r\n   o[\"facingMode\"] = facingMode\r\n   o[\"resizeMode\"] = resizeMode\r\n   o[\"volume\"] =
volume\r\n   o[\"sampleRate\"] = sampleRate\r\n   o[\"sampleSize\"] = sampleSize\r\n   o[\"echoCancellation\"] =
echoCancellation\r\n   o[\"autoGainControl\"] = autoGainControl\r\n   o[\"noiseSuppression\"] =
noiseSuppression\r\n   o[\"latency\"] = latency\r\n   o[\"channelCount\"] = channelCount\r\n   o[\"deviceId\"] =
deviceId\r\n   o[\"groupId\"] = groupId\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript
[MediaStreamTrackEvent](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrackEvent) to Kotlin\r\n
*/\r\npublic external open class MediaStreamTrackEvent(type: String, eventInitDict: MediaStreamTrackEventInit) :
Event {\r\n   open val track: MediaStreamTrack\r\n}\r\n\r\npublic external interface MediaStreamTrackEventInit :
EventInit {\r\n   var track: MediaStreamTrack?\r\n   get() = definedExternally\r\n   set(value) =
definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun MediaStreamTrackEventInit(track:
MediaStreamTrack?, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
MediaStreamTrackEventInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"track\"] = track\r\n   o[\"bubbles\"] =
bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\npublic
external open class OverconstrainedErrorEvent(type: String, eventInitDict: OverconstrainedErrorEventInit) : Event
{\r\n   open val error: dynamic\r\n}\r\n\r\npublic external interface OverconstrainedErrorEventInit : EventInit {\r\n
var error: dynamic /* = null */\r\n   get() = definedExternally\r\n   set(value) =
definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun OverconstrainedErrorEventInit(error:
dynamic = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
OverconstrainedErrorEventInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"error\"] = error\r\n   o[\"bubbles\"] =
bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n *
Exposes the JavaScript [MediaDevices](https://developer.mozilla.org/en/docs/Web/API/MediaDevices) to Kotlin\r\n
*/\r\npublic external abstract class MediaDevices : EventTarget {\r\n   open var ondevicechange: ((Event) ->
dynamic)?\r\n   fun enumerateDevices(): Promise<dynamic>\r\n   fun getSupportedConstraints():
MediaTrackSupportedConstraints\r\n   fun getUserMedia(constraints: MediaStreamConstraints =
definedExternally): Promise<MediaStream>\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript
[MediaDeviceInfo](https://developer.mozilla.org/en/docs/Web/API/MediaDeviceInfo) to Kotlin\r\n */\r\npublic
external abstract class MediaDeviceInfo {\r\n   open val deviceId: String\r\n   open val kind: MediaDeviceKind\r\n
open val label: String\r\n   open val groupId: String\r\n   fun toJSON(): dynamic\r\n}\r\n\r\npublic external abstract
class InputDeviceInfo : MediaDeviceInfo {\r\n   fun getCapabilities(): MediaTrackCapabilities\r\n}\r\n\r\n/**\r\n *
Exposes the JavaScript
[MediaStreamConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaStreamConstraints) to Kotlin\r\n

/\r\npublic external interface MediaStreamConstraints {\r\n var video: dynamic / = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var audio: dynamic /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun MediaStreamConstraints(video: dynamic = false, audio: dynamic = false): MediaStreamConstraints {\r\n val o = js(\"({})\")\r\n\r\n o[\"video\"] = video\r\n o[\"audio\"] = audio\r\n\r\n return o\r\n}\r\n\r\npublic external interface ConstrainablePattern {\r\n var onoverconstrained: ((Event) -> dynamic)?\r\n fun getCapabilities(): Capabilities\r\n fun getConstraints(): Constraints\r\n fun getSettings(): Settings\r\n fun applyConstraints(constraints: Constraints = definedExternally): Promise<Unit>\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [DoubleRange](https://developer.mozilla.org/en/docs/Web/API/DoubleRange) to Kotlin\r\n */\r\npublic external interface DoubleRange {\r\n var max: Double?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var min: Double?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun DoubleRange(max: Double? = undefined, min: Double? = undefined): DoubleRange {\r\n val o = js(\"({})\")\r\n\r\n o[\"max\"] = max\r\n o[\"min\"] = min\r\n\r\n return o\r\n}\r\n\r\npublic external interface ConstrainDoubleRange : DoubleRange {\r\n var exact: Double?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var ideal: Double?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ConstrainDoubleRange(exact: Double? = undefined, ideal: Double? = undefined, max: Double? = undefined, min: Double? = undefined): ConstrainDoubleRange {\r\n val o = js(\"({})\")\r\n\r\n o[\"exact\"] = exact\r\n o[\"ideal\"] = ideal\r\n o[\"max\"] = max\r\n o[\"min\"] = min\r\n\r\n return o\r\n}\r\n\r\npublic external interface ULongRange {\r\n var max: Int?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var min: Int?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ULongRange(max: Int? = undefined, min: Int? = undefined): ULongRange {\r\n val o = js(\"({})\")\r\n\r\n o[\"max\"] = max\r\n o[\"min\"] = min\r\n\r\n return o\r\n}\r\n\r\npublic external interface ConstrainULongRange : ULongRange {\r\n var exact: Int?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var ideal: Int?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ConstrainULongRange(exact: Int? = undefined, ideal: Int? = undefined, max: Int? = undefined, min: Int? = undefined): ConstrainULongRange {\r\n val o = js(\"({})\")\r\n\r\n o[\"exact\"] = exact\r\n o[\"ideal\"] = ideal\r\n o[\"max\"] = max\r\n o[\"min\"] = min\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ConstrainBooleanParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainBooleanParameters) to Kotlin\r\n */\r\npublic external interface ConstrainBooleanParameters {\r\n var exact: Boolean?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var ideal: Boolean?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ConstrainBooleanParameters(exact: Boolean? = undefined, ideal: Boolean? = undefined): ConstrainBooleanParameters {\r\n val o = js(\"({})\")\r\n\r\n o[\"exact\"] = exact\r\n o[\"ideal\"] = ideal\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ConstrainDOMStringParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainDOMStringParameters) to Kotlin\r\n */\r\npublic external interface ConstrainDOMStringParameters {\r\n var exact: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var ideal: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ConstrainDOMStringParameters(exact: dynamic = undefined, ideal: dynamic = undefined): ConstrainDOMStringParameters {\r\n val o = js(\"({})\")\r\n\r\n o[\"exact\"] = exact\r\n o[\"ideal\"] = ideal\r\n\r\n return o\r\n}\r\n\r\npublic external interface Capabilities {\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Capabilities(): Capabilities {\r\n val o = js(\"({})\")\r\n\r\n\r\n return o\r\n}\r\n\r\npublic external interface Settings {\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Settings(): Settings {\r\n val o = js(\"({})\")\r\n\r\n\r\n return o\r\n}\r\n\r\npublic external interface ConstraintSet

{\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ConstraintSet(): ConstraintSet {\r\n val o = js(\"({})\")\r\n\r\n\r\n return o\r\n}\r\n\r\npublic external interface Constraints : ConstraintSet {\r\n var advanced: Array<ConstraintSet>?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Constraints(advanced: Array<ConstraintSet>? = undefined): Constraints {\r\n val o = js(\"({})\")\r\n\r\n\r\n o[\"advanced\"] = advanced\r\n\r\n\r\n return o\r\n}\r\n\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface MediaStreamTrackState {\r\n companion object\r\n}\r\npublic inline val MediaStreamTrackState.Companion.LIVE: MediaStreamTrackState get() = \"live\".asDynamic().unsafeCast<MediaStreamTrackState>()\r\npublic inline val MediaStreamTrackState.Companion.ENDED: MediaStreamTrackState get() = \"ended\".asDynamic().unsafeCast<MediaStreamTrackState>()\r\n\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface VideoFacingModeEnum {\r\n companion object\r\n}\r\npublic inline val VideoFacingModeEnum.Companion.USER: VideoFacingModeEnum get() = \"user\".asDynamic().unsafeCast<VideoFacingModeEnum>()\r\npublic inline val VideoFacingModeEnum.Companion.ENVIRONMENT: VideoFacingModeEnum get() = \"environment\".asDynamic().unsafeCast<VideoFacingModeEnum>()\r\npublic inline val VideoFacingModeEnum.Companion.LEFT: VideoFacingModeEnum get() = \"left\".asDynamic().unsafeCast<VideoFacingModeEnum>()\r\npublic inline val VideoFacingModeEnum.Companion.RIGHT: VideoFacingModeEnum get() = \"right\".asDynamic().unsafeCast<VideoFacingModeEnum>()\r\n\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface VideoResizeModeEnum {\r\n companion object\r\n}\r\npublic inline val VideoResizeModeEnum.Companion.NONE: VideoResizeModeEnum get() = \"none\".asDynamic().unsafeCast<VideoResizeModeEnum>()\r\npublic inline val VideoResizeModeEnum.Companion.CROP_AND_SCALE: VideoResizeModeEnum get() = \"crop-and-scale\".asDynamic().unsafeCast<VideoResizeModeEnum>()\r\n\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface MediaDeviceKind {\r\n companion object\r\n}\r\npublic inline val MediaDeviceKind.Companion.AUDIOINPUT: MediaDeviceKind get() = \"audioinput\".asDynamic().unsafeCast<MediaDeviceKind>()\r\npublic inline val MediaDeviceKind.Companion.AUDIOOUTPUT: MediaDeviceKind get() = \"audiooutput\".asDynamic().unsafeCast<MediaDeviceKind>()\r\npublic inline val MediaDeviceKind.Companion.VIDEOINPUT: MediaDeviceKind get() = \"videoinput\".asDynamic().unsafeCast<MediaDeviceKind>()\r\n\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\r\n// See libraries/tools/idl2k for details\r\n\r\n@file:Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\r\npackage org.w3c.dom.pointerevents\r\n\r\n\r\nimport kotlin.js.*\r\nimport org.khronos.webgl.*\r\nimport org.w3c.css.masking.*\r\nimport org.w3c.dom.*\r\nimport org.w3c.dom.clipboard.*\r\nimport org.w3c.dom.css.*\r\nimport org.w3c.dom.events.*\r\nimport org.w3c.dom.mediacapture.*\r\nimport org.w3c.dom.parsing.*\r\nimport org.w3c.dom.svg.*\r\nimport org.w3c.dom.url.*\r\nimport org.w3c.fetch.*\r\nimport org.w3c.files.*\r\nimport org.w3c.notifications.*\r\nimport org.w3c.performance.*\r\nimport org.w3c.workers.*\r\nimport org.w3c.xhr.*\r\n\r\n\r\npublic external interface PointerEventInit : MouseEventInit {\r\n var pointerId: Int? /* = 0 */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var width: Double? /* = 1.0 */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var height: Double? /* = 1.0 */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var pressure: Float? /* = 0f */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var tangentialPressure: Float? /* = 0f */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var tiltX: Int? /* = 0 */\r\n get() = definedExternally\r\n set(value) =

definedExternally\r\n   var tiltY: Int? /* = 0 */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var twist: Int? /* = 0 */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var pointerType: String? /* = \"\" */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var isPrimary: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun PointerEventInit(pointerId: Int? = 0, width: Double? = 1.0, height: Double? = 1.0, pressure: Float? = 0f, tangentialPressure: Float? = 0f, tiltX: Int? = 0, tiltY: Int? = 0, twist: Int? = 0, pointerType: String? = \"\", isPrimary: Boolean? = false, screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget: EventTarget? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): PointerEventInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"pointerId\"] = pointerId\r\n   o[\"width\"] = width\r\n   o[\"height\"] = height\r\n   o[\"pressure\"] = pressure\r\n   o[\"tangentialPressure\"] = tangentialPressure\r\n   o[\"tiltX\"] = tiltX\r\n   o[\"tiltY\"] = tiltY\r\n   o[\"twist\"] = twist\r\n   o[\"pointerType\"] = pointerType\r\n   o[\"isPrimary\"] = isPrimary\r\n   o[\"screenX\"] = screenX\r\n   o[\"screenY\"] = screenY\r\n   o[\"clientX\"] = clientX\r\n   o[\"clientY\"] = clientY\r\n   o[\"button\"] = button\r\n   o[\"buttons\"] = buttons\r\n   o[\"relatedTarget\"] = relatedTarget\r\n   o[\"ctrlKey\"] = ctrlKey\r\n   o[\"shiftKey\"] = shiftKey\r\n   o[\"altKey\"] = altKey\r\n   o[\"metaKey\"] = metaKey\r\n   o[\"modifierAltGraph\"] = modifierAltGraph\r\n   o[\"modifierCapsLock\"] = modifierCapsLock\r\n   o[\"modifierFn\"] = modifierFn\r\n   o[\"modifierFnLock\"] = modifierFnLock\r\n   o[\"modifierHyper\"] = modifierHyper\r\n   o[\"modifierNumLock\"] = modifierNumLock\r\n   o[\"modifierScrollLock\"] = modifierScrollLock\r\n   o[\"modifierSuper\"] = modifierSuper\r\n   o[\"modifierSymbol\"] = modifierSymbol\r\n   o[\"modifierSymbolLock\"] = modifierSymbolLock\r\n   o[\"view\"] = view\r\n   o[\"detail\"] = detail\r\n   o[\"bubbles\"] = bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [PointerEvent](https://developer.mozilla.org/en/docs/Web/API/PointerEvent) to Kotlin\r\n */\r\npublic external open class PointerEvent(type: String, eventInitDict: PointerEventInit = definedExternally) : MouseEvent {\r\n   open val pointerId: Int\r\n   open val width: Double\r\n   open val height: Double\r\n   open val pressure: Float\r\n   open val tangentialPressure: Float\r\n   open val tiltX: Int\r\n   open val tiltY: Int\r\n   open val twist: Int\r\n   open val pointerType: String\r\n   open val isPrimary: Boolean\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\r\n// See libraries/tools/idl2k for details\r\n\r\n@file:Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\r\npackage org.w3c.dom.svg\r\n\r\nimport kotlin.js.*\r\nimport org.khronos.webgl.*\r\nimport org.w3c.css.masking.*\r\nimport org.w3c.dom.*\r\nimport org.w3c.dom.clipboard.*\r\nimport org.w3c.dom.css.*\r\nimport org.w3c.dom.events.*\r\nimport org.w3c.dom.mediacapture.*\r\nimport org.w3c.dom.parsing.*\r\nimport org.w3c.dom.pointerevents.*\r\nimport org.w3c.dom.url.*\r\nimport org.w3c.fetch.*\r\nimport org.w3c.files.*\r\nimport org.w3c.notifications.*\r\nimport org.w3c.performance.*\r\nimport org.w3c.workers.*\r\nimport org.w3c.xhr.*\r\n\r\n/**\r\n * Exposes the JavaScript [SVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGElement) to Kotlin\r\n */\r\npublic external abstract class SVGElement : Element, ElementCSSInlineStyle, GlobalEventHandlers, SVGElementInstance {\r\n   open val dataset: DOMStringMap\r\n   open val ownerSVGElement: SVGSVGElement?\r\n   open val viewportElement: SVGElement?\r\n   open var tabIndex: Int\r\n   fun focus(): Unit\r\n   fun blur(): Unit\r\n}\r\n\r\npublic external interface SVGBoundingBoxOptions {\r\n   var fill: Boolean? /* = true */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var stroke: Boolean? /* = false */\r\n   get()

= definedExternally\r\n set(value) = definedExternally\r\n var markers: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var clipped: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun SVGBoundingBoxOptions(fill: Boolean? = true, stroke: Boolean? = false, markers: Boolean? = false, clipped: Boolean? = false): SVGBoundingBoxOptions {\r\n val o = js(\"({})\")\r\n\r\n o[\"fill\"] = fill\r\n o[\"stroke\"] = stroke\r\n o[\"markers\"] = markers\r\n o[\"clipped\"] = clipped\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGGraphicsElement](https://developer.mozilla.org/en/docs/Web/API/SVGGraphicsElement) to Kotlin\r\n */\r\npublic external abstract class SVGGraphicsElement : SVGElement, SVGTests {\r\n open val transform: SVGAnimatedTransformList\r\n fun getBBox(options: SVGBoundingBoxOptions = definedExternally): DOMRect\r\n fun getCTM(): DOMMatrix?\r\n fun getScreenCTM(): DOMMatrix?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGGeometryElement](https://developer.mozilla.org/en/docs/Web/API/SVGGeometryElement) to Kotlin\r\n */\r\npublic external abstract class SVGGeometryElement : SVGGraphicsElement {\r\n open val pathLength: SVGAnimatedNumber\r\n fun isPointInFill(point: DOMPoint): Boolean\r\n fun isPointInStroke(point: DOMPoint): Boolean\r\n fun getTotalLength(): Float\r\n fun getPointAtLength(distance: Float): DOMPoint\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGNumber](https://developer.mozilla.org/en/docs/Web/API/SVGNumber) to Kotlin\r\n */\r\npublic external abstract class SVGNumber {\r\n open var value: Float\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGLength](https://developer.mozilla.org/en/docs/Web/API/SVGLength) to Kotlin\r\n */\r\npublic external abstract class SVGLength {\r\n open val unitType: Short\r\n open var value: Float\r\n open var valueInSpecifiedUnits: Float\r\n open var valueAsString: String\r\n fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits: Float): Unit\r\n fun convertToSpecifiedUnits(unitType: Short): Unit\r\n\r\n companion object {\r\n val SVG_LENGTHTYPE_UNKNOWN: Short\r\n val SVG_LENGTHTYPE_NUMBER: Short\r\n val SVG_LENGTHTYPE_PERCENTAGE: Short\r\n val SVG_LENGTHTYPE_EMS: Short\r\n val SVG_LENGTHTYPE_EXS: Short\r\n val SVG_LENGTHTYPE_PX: Short\r\n val SVG_LENGTHTYPE_CM: Short\r\n val SVG_LENGTHTYPE_MM: Short\r\n val SVG_LENGTHTYPE_IN: Short\r\n val SVG_LENGTHTYPE_PT: Short\r\n val SVG_LENGTHTYPE_PC: Short\r\n }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAngle) to Kotlin\r\n */\r\npublic external abstract class SVGAngle {\r\n open val unitType: Short\r\n open var value: Float\r\n open var valueInSpecifiedUnits: Float\r\n open var valueAsString: String\r\n fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits: Float): Unit\r\n fun convertToSpecifiedUnits(unitType: Short): Unit\r\n\r\n companion object {\r\n val SVG_ANGLETYPE_UNKNOWN: Short\r\n val SVG_ANGLETYPE_UNSPECIFIED: Short\r\n val SVG_ANGLETYPE_DEG: Short\r\n val SVG_ANGLETYPE_RAD: Short\r\n val SVG_ANGLETYPE_GRAD: Short\r\n }\r\n}\r\n\r\npublic external abstract class SVGNameList {\r\n open val length: Int\r\n open val numberOfItems: Int\r\n fun clear(): Unit\r\n fun initialize(newItem: dynamic): dynamic\r\n fun getItem(index: Int): dynamic\r\n fun insertItemBefore(newItem: dynamic, index: Int): dynamic\r\n fun replaceItem(newItem: dynamic, index: Int): dynamic\r\n fun removeItem(index: Int): dynamic\r\n fun appendItem(newItem: dynamic): dynamic\r\n}\r\n\r\n@kotlin.internal.InlineOnly inline operator fun SVGNameList.get(index: Int): dynamic = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun SVGNameList.set(index: Int, newItem: dynamic): Unit { asDynamic()[index] = newItem; }\r\n\r\n/**\r\n * Exposes the JavaScript [SVGNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGNumberList) to Kotlin\r\n */\r\npublic external abstract class SVGNumberList {\r\n open val length: Int\r\n open val numberOfItems: Int\r\n fun clear(): Unit\r\n fun initialize(newItem: SVGNumber): SVGNumber\r\n fun getItem(index: Int): SVGNumber\r\n fun insertItemBefore(newItem: SVGNumber, index: Int): SVGNumber\r\n fun replaceItem(newItem: SVGNumber, index: Int): SVGNumber\r\n fun removeItem(index: Int): SVGNumber\r\n fun appendItem(newItem: SVGNumber): SVGNumber\r\n}\r\n\r\n@kotlin.internal.InlineOnly inline operator fun

SVGNumberList.get(index: Int): SVGNumber? = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun SVGNumberList.set(index: Int, newItem: SVGNumber): Unit { asDynamic()[index] = newItem; }\r\n\r\n/**\r\n * Exposes the JavaScript [SVGLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGLengthList) to Kotlin\r\n */\r\npublic external abstract class SVGLengthList {\r\n   open val length: Int\r\n   open val numberOfItems: Int\r\n   fun clear(): Unit\r\n   fun initialize(newItem: SVGLength): SVGLength\r\n   fun getItem(index: Int): SVGLength\r\n   fun insertItemBefore(newItem: SVGLength, index: Int): SVGLength\r\n   fun replaceItem(newItem: SVGLength, index: Int): SVGLength\r\n   fun removeItem(index: Int): SVGLength\r\n   fun appendItem(newItem: SVGLength): SVGLength\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun SVGLengthList.get(index: Int): SVGLength? = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun SVGLengthList.set(index: Int, newItem: SVGLength): Unit { asDynamic()[index] = newItem; }\r\n\r\n/**\r\n * Exposes the JavaScript [SVGAnimatedBoolean](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedBoolean) to Kotlin\r\n */\r\npublic external abstract class SVGAnimatedBoolean {\r\n   open var baseVal: Boolean\r\n   open val animVal: Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGAnimatedEnumeration](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedEnumeration) to Kotlin\r\n */\r\npublic external abstract class SVGAnimatedEnumeration {\r\n   open var baseVal: Short\r\n   open val animVal: Short\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGAnimatedInteger](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedInteger) to Kotlin\r\n */\r\npublic external abstract class SVGAnimatedInteger {\r\n   open var baseVal: Int\r\n   open val animVal: Int\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGAnimatedNumber](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumber) to Kotlin\r\n */\r\npublic external abstract class SVGAnimatedNumber {\r\n   open var baseVal: Float\r\n   open val animVal: Float\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGAnimatedLength](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLength) to Kotlin\r\n */\r\npublic external abstract class SVGAnimatedLength {\r\n   open val baseVal: SVGLength\r\n   open val animVal: SVGLength\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGAnimatedAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedAngle) to Kotlin\r\n */\r\npublic external abstract class SVGAnimatedAngle {\r\n   open val baseVal: SVGAngle\r\n   open val animVal: SVGAngle\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGAnimatedString](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedString) to Kotlin\r\n */\r\npublic external abstract class SVGAnimatedString {\r\n   open var baseVal: String\r\n   open val animVal: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGAnimatedRect](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedRect) to Kotlin\r\n */\r\npublic external abstract class SVGAnimatedRect {\r\n   open val baseVal: DOMRect\r\n   open val animVal: DOMRectReadOnly\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGAnimatedNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumberList) to Kotlin\r\n */\r\npublic external abstract class SVGAnimatedNumberList {\r\n   open val baseVal: SVGNumberList\r\n   open val animVal: SVGNumberList\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGAnimatedLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLengthList) to Kotlin\r\n */\r\npublic external abstract class SVGAnimatedLengthList {\r\n   open val baseVal: SVGLengthList\r\n   open val animVal: SVGLengthList\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGStringList](https://developer.mozilla.org/en/docs/Web/API/SVGStringList) to Kotlin\r\n */\r\npublic external abstract class SVGStringList {\r\n   open val length: Int\r\n   open val numberOfItems: Int\r\n   fun clear(): Unit\r\n   fun initialize(newItem: String): String\r\n   fun getItem(index: Int): String\r\n   fun insertItemBefore(newItem: String, index: Int): String\r\n   fun replaceItem(newItem: String, index: Int): String\r\n   fun removeItem(index: Int): String\r\n   fun appendItem(newItem: String): String\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun SVGStringList.get(index: Int): String? = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun SVGStringList.set(index: Int, newItem: String): Unit { asDynamic()[index] = newItem; }\r\n\r\n/**\r\n * Exposes

the JavaScript [SVGUnitTypes](https://developer.mozilla.org/en/docs/Web/API/SVGUnitTypes) to Kotlin\r\n */\r\npublic external interface SVGUnitTypes {\r\n\r\n companion object {\r\n val SVG_UNIT_TYPE_UNKNOWN: Short\r\n val SVG_UNIT_TYPE_USERSPACEONUSE: Short\r\n val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\r\n }\r\n}\r\n\r\n\r\n/**\r\n * Exposes the JavaScript [SVGTests](https://developer.mozilla.org/en/docs/Web/API/SVGTests) to Kotlin\r\n */\r\npublic external interface SVGTests {\r\n val requiredExtensions: SVGStringList\r\n val systemLanguage: SVGStringList\r\n}\r\n\r\n\r\npublic external interface SVGFitToViewBox {\r\n val viewBox: SVGAnimatedRect\r\n val preserveAspectRatio: SVGAnimatedPreserveAspectRatio\r\n}\r\n\r\n\r\n/**\r\n * Exposes the JavaScript [SVGZoomAndPan](https://developer.mozilla.org/en/docs/Web/API/SVGZoomAndPan) to Kotlin\r\n */\r\npublic external interface SVGZoomAndPan {\r\n var zoomAndPan: Short\r\n\r\n companion object {\r\n val SVG_ZOOMANDPAN_UNKNOWN: Short\r\n val SVG_ZOOMANDPAN_DISABLE: Short\r\n val SVG_ZOOMANDPAN_MAGNIFY: Short\r\n }\r\n}\r\n\r\n\r\n/**\r\n * Exposes the JavaScript [SVGURIReference](https://developer.mozilla.org/en/docs/Web/API/SVGURIReference) to Kotlin\r\n */\r\npublic external interface SVGURIReference {\r\n val href: SVGAnimatedString\r\n}\r\n\r\n\r\n/**\r\n * Exposes the JavaScript [SVGSVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGSVGElement) to Kotlin\r\n */\r\npublic external abstract class SVGSVGElement : SVGGraphicsElement, SVGFitToViewBox, SVGZoomAndPan, WindowEventHandlers {\r\n open val x: SVGAnimatedLength\r\n open val y: SVGAnimatedLength\r\n open val width: SVGAnimatedLength\r\n open val height: SVGAnimatedLength\r\n open var currentScale: Float\r\n open val currentTranslate: DOMPointReadOnly\r\n fun getIntersectionList(rect: DOMRectReadOnly, referenceElement: SVGElement?): NodeList\r\n fun getEnclosureList(rect: DOMRectReadOnly, referenceElement: SVGElement?): NodeList\r\n fun checkIntersection(element: SVGElement, rect: DOMRectReadOnly): Boolean\r\n fun checkEnclosure(element: SVGElement, rect: DOMRectReadOnly): Boolean\r\n fun deselectAll(): Unit\r\n fun createSVGNumber(): SVGNumber\r\n fun createSVGLength(): SVGLength\r\n fun createSVGAngle(): SVGAngle\r\n fun createSVGPoint(): DOMPoint\r\n fun createSVGMatrix(): DOMMatrix\r\n fun createSVGRect(): DOMRect\r\n fun createSVGTransform(): SVGTransform\r\n fun createSVGTransformFromMatrix(matrix: DOMMatrixReadOnly): SVGTransform\r\n fun getElementById(elementId: String): Element\r\n fun suspendRedraw(maxWaitMilliseconds: Int): Int\r\n fun unsuspendRedraw(suspendHandleID: Int): Unit\r\n fun unsuspendRedrawAll(): Unit\r\n fun forceRedraw(): Unit\r\n\r\n companion object {\r\n val SVG_ZOOMANDPAN_UNKNOWN: Short\r\n val SVG_ZOOMANDPAN_DISABLE: Short\r\n val SVG_ZOOMANDPAN_MAGNIFY: Short\r\n }\r\n}\r\n\r\n\r\n/**\r\n * Exposes the JavaScript [SVGGElement](https://developer.mozilla.org/en/docs/Web/API/SVGGElement) to Kotlin\r\n */\r\npublic external abstract class SVGGElement : SVGGraphicsElement {\r\n}\r\n\r\n\r\npublic external abstract class SVGUnknownElement : SVGGraphicsElement {\r\n}\r\n\r\n\r\n/**\r\n * Exposes the JavaScript [SVGDefsElement](https://developer.mozilla.org/en/docs/Web/API/SVGDefsElement) to Kotlin\r\n */\r\npublic external abstract class SVGDefsElement : SVGGraphicsElement {\r\n}\r\n\r\n\r\n/**\r\n * Exposes the JavaScript [SVGDescElement](https://developer.mozilla.org/en/docs/Web/API/SVGDescElement) to Kotlin\r\n */\r\npublic external abstract class SVGDescElement : SVGElement {\r\n}\r\n\r\n\r\n/**\r\n * Exposes the JavaScript [SVGMetadataElement](https://developer.mozilla.org/en/docs/Web/API/SVGMetadataElement) to Kotlin\r\n */\r\npublic external abstract class SVGMetadataElement : SVGElement {\r\n}\r\n\r\n\r\n/**\r\n * Exposes the JavaScript [SVGTitleElement](https://developer.mozilla.org/en/docs/Web/API/SVGTitleElement) to Kotlin\r\n */\r\npublic external abstract class SVGTitleElement : SVGElement {\r\n}\r\n\r\n\r\n/**\r\n * Exposes the JavaScript [SVGSymbolElement](https://developer.mozilla.org/en/docs/Web/API/SVGSymbolElement) to Kotlin\r\n */\r\npublic external abstract class SVGSymbolElement : SVGGraphicsElement, SVGFitToViewBox {\r\n}\r\n\r\n\r\n/**\r\n * Exposes the JavaScript [SVGUseElement](https://developer.mozilla.org/en/docs/Web/API/SVGUseElement) to Kotlin\r\n */\r\npublic external abstract class SVGUseElement : SVGGraphicsElement, SVGURIReference {\r\n open val x: SVGAnimatedLength\r\n open val y: SVGAnimatedLength\r\n open val width: SVGAnimatedLength\r\n open

val height: SVGAnimatedLength\r\n   open val instanceRoot: SVGElement?\r\n   open val animatedInstanceRoot: SVGElement?\r\n}\r\n\r\npublic external open class SVGUseElementShadowRoot : ShadowRoot {\r\n   override fun getElementById(elementId: String): Element?\r\n   override fun prepend(vararg nodes: dynamic): Unit\r\n   override fun append(vararg nodes: dynamic): Unit\r\n   override fun querySelector(selectors: String): Element?\r\n   override fun querySelectorAll(selectors: String): NodeList\r\n}\r\n\r\npublic external interface SVGElementInstance {\r\n   val correspondingElement: SVGElement?\r\n   val correspondingUseElement: SVGUseElement?\r\n}\r\n\r\npublic external open class ShadowAnimation(source: dynamic, newTarget: dynamic) {\r\n   open val sourceAnimation: dynamic\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGSwitchElement](https://developer.mozilla.org/en/docs/Web/API/SVGSwitchElement) to Kotlin\r\n */\r\npublic external abstract class SVGSwitchElement : SVGGraphicsElement {\r\n}\r\n\r\npublic external interface GetSVGDocument {\r\n   fun getSVGDocument(): Document\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGStyleElement](https://developer.mozilla.org/en/docs/Web/API/SVGStyleElement) to Kotlin\r\n */\r\npublic external abstract class SVGStyleElement : SVGElement, LinkStyle {\r\n   open var type: String\r\n   open var media: String\r\n   open var title: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGTransform](https://developer.mozilla.org/en/docs/Web/API/SVGTransform) to Kotlin\r\n */\r\npublic external abstract class SVGTransform {\r\n   open val type: Short\r\n   open val matrix: DOMMatrix\r\n   open val angle: Float\r\n   fun setMatrix(matrix: DOMMatrixReadOnly): Unit\r\n   fun setTranslate(tx: Float, ty: Float): Unit\r\n   fun setScale(sx: Float, sy: Float): Unit\r\n   fun setRotate(angle: Float, cx: Float, cy: Float): Unit\r\n   fun setSkewX(angle: Float): Unit\r\n   fun setSkewY(angle: Float): Unit\r\n\r\n   companion object {\r\n   val SVG_TRANSFORM_UNKNOWN: Short\r\n   val SVG_TRANSFORM_MATRIX: Short\r\n   val SVG_TRANSFORM_TRANSLATE: Short\r\n   val SVG_TRANSFORM_SCALE: Short\r\n   val SVG_TRANSFORM_ROTATE: Short\r\n   val SVG_TRANSFORM_SKEWX: Short\r\n   val SVG_TRANSFORM_SKEWY: Short\r\n   }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGTransformList) to Kotlin\r\n */\r\npublic external abstract class SVGTransformList {\r\n   open val length: Int\r\n   open val numberOfItems: Int\r\n   fun clear(): Unit\r\n   fun initialize(newItem: SVGTransform): SVGTransform\r\n   fun getItem(index: Int): SVGTransform\r\n   fun insertItemBefore(newItem: SVGTransform, index: Int): SVGTransform\r\n   fun replaceItem(newItem: SVGTransform, index: Int): SVGTransform\r\n   fun removeItem(index: Int): SVGTransform\r\n   fun appendItem(newItem: SVGTransform): SVGTransform\r\n   fun createSVGTransformFromMatrix(matrix: DOMMatrixReadOnly): SVGTransform\r\n   fun consolidate(): SVGTransform?\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun SVGTransformList.get(index: Int): SVGTransform? = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun SVGTransformList.set(index: Int, newItem: SVGTransform): Unit { asDynamic()[index] = newItem; }\r\n\r\n/**\r\n * Exposes the JavaScript [SVGAnimatedTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedTransformList) to Kotlin\r\n */\r\npublic external abstract class SVGAnimatedTransformList {\r\n   open val baseVal: SVGTransformList\r\n   open val animVal: SVGTransformList\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGPreserveAspectRatio) to Kotlin\r\n */\r\npublic external abstract class SVGPreserveAspectRatio {\r\n   open var align: Short\r\n   open var meetOrSlice: Short\r\n\r\n   companion object {\r\n   val SVG_PRESERVEASPECTRATIO_UNKNOWN: Short\r\n   val SVG_PRESERVEASPECTRATIO_NONE: Short\r\n   val SVG_PRESERVEASPECTRATIO_XMINYMIN: Short\r\n   val SVG_PRESERVEASPECTRATIO_XMIDYMIN: Short\r\n   val SVG_PRESERVEASPECTRATIO_XMAXYMIN: Short\r\n   val SVG_PRESERVEASPECTRATIO_XMINYMID: Short\r\n   val SVG_PRESERVEASPECTRATIO_XMIDYMID: Short\r\n   val SVG_PRESERVEASPECTRATIO_XMAXYMID: Short\r\n   val SVG_PRESERVEASPECTRATIO_XMINYMAX: Short\r\n   val

SVG_PRESERVEASPECTRATIO_XMIDYMAX: Short\r\n val SVG_PRESERVEASPECTRATIO_XMAXYMAX: Short\r\n val SVG_MEETORSLICE_UNKNOWN: Short\r\n val SVG_MEETORSLICE_MEET: Short\r\n val SVG_MEETORSLICE_SLICE: Short\r\n }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGAnimatedPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPreserveAspectRatio) to Kotlin\r\n */\r\npublic external abstract class SVGAnimatedPreserveAspectRatio {\r\n open val baseVal: SVGPreserveAspectRatio\r\n open val animVal: SVGPreserveAspectRatio\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGPathElement) to Kotlin\r\n */\r\npublic external abstract class SVGPathElement : SVGGeometryElement {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGRectElement](https://developer.mozilla.org/en/docs/Web/API/SVGRectElement) to Kotlin\r\n */\r\npublic external abstract class SVGRectElement : SVGGeometryElement {\r\n open val x: SVGAnimatedLength\r\n open val y: SVGAnimatedLength\r\n open val width: SVGAnimatedLength\r\n open val height: SVGAnimatedLength\r\n open val rx: SVGAnimatedLength\r\n open val ry: SVGAnimatedLength\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGCircleElement](https://developer.mozilla.org/en/docs/Web/API/SVGCircleElement) to Kotlin\r\n */\r\npublic external abstract class SVGCircleElement : SVGGeometryElement {\r\n open val cx: SVGAnimatedLength\r\n open val cy: SVGAnimatedLength\r\n open val r: SVGAnimatedLength\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGEllipseElement](https://developer.mozilla.org/en/docs/Web/API/SVGEllipseElement) to Kotlin\r\n */\r\npublic external abstract class SVGEllipseElement : SVGGeometryElement {\r\n open val cx: SVGAnimatedLength\r\n open val cy: SVGAnimatedLength\r\n open val rx: SVGAnimatedLength\r\n open val ry: SVGAnimatedLength\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGLineElement](https://developer.mozilla.org/en/docs/Web/API/SVGLineElement) to Kotlin\r\n */\r\npublic external abstract class SVGLineElement : SVGGeometryElement {\r\n open val x1: SVGAnimatedLength\r\n open val y1: SVGAnimatedLength\r\n open val x2: SVGAnimatedLength\r\n open val y2: SVGAnimatedLength\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGMeshElement](https://developer.mozilla.org/en/docs/Web/API/SVGMeshElement) to Kotlin\r\n */\r\npublic external abstract class SVGMeshElement : SVGGeometryElement, SVGURIReference {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGAnimatedPoints](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPoints) to Kotlin\r\n */\r\npublic external interface SVGAnimatedPoints {\r\n val points: SVGPointList\r\n val animatedPoints: SVGPointList\r\n}\r\n\r\npublic external abstract class SVGPointList {\r\n open val length: Int\r\n open val numberOfItems: Int\r\n fun clear(): Unit\r\n fun initialize(newItem: DOMPoint): DOMPoint\r\n fun getItem(index: Int): DOMPoint\r\n fun insertItemBefore(newItem: DOMPoint, index: Int): DOMPoint\r\n fun replaceItem(newItem: DOMPoint, index: Int): DOMPoint\r\n fun removeItem(index: Int): DOMPoint\r\n fun appendItem(newItem: DOMPoint): DOMPoint\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun SVGPointList.get(index: Int): DOMPoint? = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun SVGPointList.set(index: Int, newItem: DOMPoint): Unit { asDynamic()[index] = newItem; }\r\n\r\n/**\r\n * Exposes the JavaScript [SVGPolylineElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolylineElement) to Kotlin\r\n */\r\npublic external abstract class SVGPolylineElement : SVGGeometryElement, SVGAnimatedPoints {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGPolygonElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolygonElement) to Kotlin\r\n */\r\npublic external abstract class SVGPolygonElement : SVGGeometryElement, SVGAnimatedPoints {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGTextContentElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextContentElement) to Kotlin\r\n */\r\npublic external abstract class SVGTextContentElement : SVGGraphicsElement {\r\n open val textLength: SVGAnimatedLength\r\n open val lengthAdjust: SVGAnimatedEnumeration\r\n fun getNumberOfChars(): Int\r\n fun getComputedTextLength(): Float\r\n fun getSubStringLength(charnum: Int, nchars: Int): Float\r\n

fun getStartPositionOfChar(charnum: Int): DOMPoint\r\n fun getEndPositionOfChar(charnum: Int): DOMPoint\r\n fun getExtentOfChar(charnum: Int): DOMRect\r\n fun getRotationOfChar(charnum: Int): Float\r\n fun getCharNumAtPosition(point: DOMPoint): Int\r\n fun selectSubString(charnum: Int, nchars: Int): Unit\r\n\r\n companion object {\r\n val LENGTHADJUST_UNKNOWN: Short\r\n val LENGTHADJUST_SPACING: Short\r\n val LENGTHADJUST_SPACINGANDGLYPHS: Short\r\n }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGTextPositioningElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPositioningElement) to Kotlin\r\n */\r\npublic external abstract class SVGTextPositioningElement : SVGTextContentElement {\r\n open val x: SVGAnimatedLengthList\r\n open val y: SVGAnimatedLengthList\r\n open val dx: SVGAnimatedLengthList\r\n open val dy: SVGAnimatedLengthList\r\n open val rotate: SVGAnimatedNumberList\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGTextElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextElement) to Kotlin\r\n */\r\npublic external abstract class SVGTextElement : SVGTextPositioningElement {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGTSpanElement](https://developer.mozilla.org/en/docs/Web/API/SVGTSpanElement) to Kotlin\r\n */\r\npublic external abstract class SVGTSpanElement : SVGTextPositioningElement {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGTextPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPathElement) to Kotlin\r\n */\r\npublic external abstract class SVGTextPathElement : SVGTextContentElement, SVGURIReference {\r\n open val startOffset: SVGAnimatedLength\r\n open val method: SVGAnimatedEnumeration\r\n open val spacing: SVGAnimatedEnumeration\r\n\r\n companion object {\r\n val TEXTPATH_METHODTYPE_UNKNOWN: Short\r\n val TEXTPATH_METHODTYPE_ALIGN: Short\r\n val TEXTPATH_METHODTYPE_STRETCH: Short\r\n val TEXTPATH_SPACINGTYPE_UNKNOWN: Short\r\n val TEXTPATH_SPACINGTYPE_AUTO: Short\r\n val TEXTPATH_SPACINGTYPE_EXACT: Short\r\n }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGImageElement](https://developer.mozilla.org/en/docs/Web/API/SVGImageElement) to Kotlin\r\n */\r\npublic external abstract class SVGImageElement : SVGGraphicsElement, SVGURIReference, HTMLOrSVGImageElement {\r\n open val x: SVGAnimatedLength\r\n open val y: SVGAnimatedLength\r\n open val width: SVGAnimatedLength\r\n open val height: SVGAnimatedLength\r\n open val preserveAspectRatio: SVGAnimatedPreserveAspectRatio\r\n open var crossOrigin: String?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGForeignObjectElement](https://developer.mozilla.org/en/docs/Web/API/SVGForeignObjectElement) to Kotlin\r\n */\r\npublic external abstract class SVGForeignObjectElement : SVGGraphicsElement {\r\n open val x: SVGAnimatedLength\r\n open val y: SVGAnimatedLength\r\n open val width: SVGAnimatedLength\r\n open val height: SVGAnimatedLength\r\n}\r\n\r\npublic external abstract class SVGMarkerElement : SVGElement, SVGFitToViewBox {\r\n open val refX: SVGAnimatedLength\r\n open val refY: SVGAnimatedLength\r\n open val markerUnits: SVGAnimatedEnumeration\r\n open val markerWidth: SVGAnimatedLength\r\n open val markerHeight: SVGAnimatedLength\r\n open val orientType: SVGAnimatedEnumeration\r\n open val orientAngle: SVGAnimatedAngle\r\n open var orient: String\r\n fun setOrientToAuto(): Unit\r\n fun setOrientToAngle(angle: SVGAngle): Unit\r\n\r\n companion object {\r\n val SVG_MARKERUNITS_UNKNOWN: Short\r\n val SVG_MARKERUNITS_USERSPACEONUSE: Short\r\n val SVG_MARKERUNITS_STROKEWIDTH: Short\r\n val SVG_MARKER_ORIENT_UNKNOWN: Short\r\n val SVG_MARKER_ORIENT_AUTO: Short\r\n val SVG_MARKER_ORIENT_ANGLE: Short\r\n }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGSolidcolorElement](https://developer.mozilla.org/en/docs/Web/API/SVGSolidcolorElement) to Kotlin\r\n */\r\npublic external abstract class SVGSolidcolorElement : SVGElement {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGGradientElement) to Kotlin\r\n */\r\npublic external abstract class SVGGradientElement : SVGElement, SVGURIReference, SVGUnitTypes {\r\n open val gradientUnits: SVGAnimatedEnumeration\r\n open val gradientTransform: SVGAnimatedTransformList\r\n open val spreadMethod: SVGAnimatedEnumeration\r\n\r\n companion object

{\r\n val SVG_SPREADMETHOD_UNKNOWN: Short\r\n val SVG_SPREADMETHOD_PAD: Short\r\n val SVG_SPREADMETHOD_REFLECT: Short\r\n val SVG_SPREADMETHOD_REPEAT: Short\r\n val SVG_UNIT_TYPE_UNKNOWN: Short\r\n val SVG_UNIT_TYPE_USERSPACEONUSE: Short\r\n val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\r\n }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGLinearGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGLinearGradientElement) to Kotlin\r\n */\r\npublic external abstract class SVGLinearGradientElement : SVGGradientElement {\r\n open val x1: SVGAnimatedLength\r\n open val y1: SVGAnimatedLength\r\n open val x2: SVGAnimatedLength\r\n open val y2: SVGAnimatedLength\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGRadialGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGRadialGradientElement) to Kotlin\r\n */\r\npublic external abstract class SVGRadialGradientElement : SVGGradientElement {\r\n open val cx: SVGAnimatedLength\r\n open val cy: SVGAnimatedLength\r\n open val r: SVGAnimatedLength\r\n open val fx: SVGAnimatedLength\r\n open val fy: SVGAnimatedLength\r\n open val fr: SVGAnimatedLength\r\n}\r\n\r\npublic external abstract class SVGMeshGradientElement : SVGGradientElement {\r\n}\r\n\r\npublic external abstract class SVGMeshrowElement : SVGElement {\r\n}\r\n\r\npublic external abstract class SVGMeshpatchElement : SVGElement {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGStopElement](https://developer.mozilla.org/en/docs/Web/API/SVGStopElement) to Kotlin\r\n */\r\npublic external abstract class SVGStopElement : SVGElement {\r\n open val offset: SVGAnimatedNumber\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGPatternElement](https://developer.mozilla.org/en/docs/Web/API/SVGPatternElement) to Kotlin\r\n */\r\npublic external abstract class SVGPatternElement : SVGElement, SVGFitToViewBox, SVGURIReference, SVGUnitTypes {\r\n open val patternUnits: SVGAnimatedEnumeration\r\n open val patternContentUnits: SVGAnimatedEnumeration\r\n open val patternTransform: SVGAnimatedTransformList\r\n open val x: SVGAnimatedLength\r\n open val y: SVGAnimatedLength\r\n open val width: SVGAnimatedLength\r\n open val height: SVGAnimatedLength\r\n\r\n companion object {\r\n val SVG_UNIT_TYPE_UNKNOWN: Short\r\n val SVG_UNIT_TYPE_USERSPACEONUSE: Short\r\n val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\r\n }\r\n}\r\n\r\npublic external abstract class SVGHatchElement : SVGElement {\r\n}\r\n\r\npublic external abstract class SVGHatchpathElement : SVGElement {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGCursorElement](https://developer.mozilla.org/en/docs/Web/API/SVGCursorElement) to Kotlin\r\n */\r\npublic external abstract class SVGCursorElement : SVGElement, SVGURIReference {\r\n open val x: SVGAnimatedLength\r\n open val y: SVGAnimatedLength\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGScriptElement](https://developer.mozilla.org/en/docs/Web/API/SVGScriptElement) to Kotlin\r\n */\r\npublic external abstract class SVGScriptElement : SVGElement, SVGURIReference, HTMLOrSVGScriptElement {\r\n open var type: String\r\n open var crossOrigin: String?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGAElement](https://developer.mozilla.org/en/docs/Web/API/SVGAElement) to Kotlin\r\n */\r\npublic external abstract class SVGAElement : SVGGraphicsElement, SVGURIReference {\r\n open val target: SVGAnimatedString\r\n open val download: SVGAnimatedString\r\n open val rel: SVGAnimatedString\r\n open val relList: SVGAnimatedString\r\n open val hreflang: SVGAnimatedString\r\n open val type: SVGAnimatedString\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGViewElement](https://developer.mozilla.org/en/docs/Web/API/SVGViewElement) to Kotlin\r\n */\r\npublic external abstract class SVGViewElement : SVGElement, SVGFitToViewBox, SVGZoomAndPan {\r\n\r\n companion object {\r\n val SVG_ZOOMANDPAN_UNKNOWN: Short\r\n val SVG_ZOOMANDPAN_DISABLE: Short\r\n val SVG_ZOOMANDPAN_MAGNIFY: Short\r\n }\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\r\n// See libraries/tools/idl2k for details\r\n\r\n@file:Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\r\npackage org.w3c.files\r\n\r\nimport kotlin.js.*\r\nimport org.khronos.webgl.*\r\nimport org.w3c.css.masking.*\r\nimport

org.w3c.dom.*\r\nimport org.w3c.dom.clipboard.*\r\nimport org.w3c.dom.css.*\r\nimport org.w3c.dom.events.*\r\nimport org.w3c.dom.mediacapture.*\r\nimport org.w3c.dom.parsing.*\r\nimport org.w3c.dom.pointerevents.*\r\nimport org.w3c.dom.svg.*\r\nimport org.w3c.dom.url.*\r\nimport org.w3c.fetch.*\r\nimport org.w3c.notifications.*\r\nimport org.w3c.performance.*\r\nimport org.w3c.workers.*\r\nimport org.w3c.xhr.*\r\n\r\n/**\r\n * Exposes the JavaScript [Blob](https://developer.mozilla.org/en/docs/Web/API/Blob) to Kotlin\r\n */\r\npublic external open class Blob(blobParts: Array<dynamic> = definedExternally, options: BlobPropertyBag = definedExternally) {\r\n   open val size: Int\r\n   open val type: String\r\n   open val isClosed: Boolean\r\n   fun slice(start: Int = definedExternally, end: Int = definedExternally, contentType: String = definedExternally): Blob\r\n   fun close(): Unit\r\n}\r\n\r\npublic external interface BlobPropertyBag {\r\n   var type: String? /* = \"\" */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun BlobPropertyBag(type: String? = \"\"): BlobPropertyBag {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"type\"] = type\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [File](https://developer.mozilla.org/en/docs/Web/API/File) to Kotlin\r\n */\r\npublic external open class File(fileBits: Array<dynamic>, fileName: String, options: FilePropertyBag = definedExternally) : Blob {\r\n   open val name: String\r\n   open val lastModified: Int\r\n}\r\n\r\npublic external interface FilePropertyBag : BlobPropertyBag {\r\n   var lastModified: Int?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun FilePropertyBag(lastModified: Int? = undefined, type: String? = \"\"): FilePropertyBag {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"lastModified\"] = lastModified\r\n   o[\"type\"] = type\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [FileList](https://developer.mozilla.org/en/docs/Web/API/FileList) to Kotlin\r\n */\r\npublic external abstract class FileList : ItemArrayLike<File> {\r\n   override val length: Int\r\n   override fun item(index: Int): File?\r\n}\r\n\r\n@kotlin.internal.InlineOnly inline operator fun FileList.get(index: Int): File? = asDynamic()[index]\r\n\r\n/**\r\n * Exposes the JavaScript [FileReader](https://developer.mozilla.org/en/docs/Web/API/FileReader) to Kotlin\r\n */\r\npublic external open class FileReader : EventTarget {\r\n   open val readyState: Short\r\n   open val result: dynamic\r\n   open val error: dynamic\r\n   var onloadstart: ((ProgressEvent) -> dynamic)?\r\n   var onprogress: ((ProgressEvent) -> dynamic)?\r\n   var onload: ((Event) -> dynamic)?\r\n   var onabort: ((Event) -> dynamic)?\r\n   var onerror: ((Event) -> dynamic)?\r\n   var onloadend: ((Event) -> dynamic)?\r\n   fun readAsArrayBuffer(blob: Blob): Unit\r\n   fun readAsBinaryString(blob: Blob): Unit\r\n   fun readAsText(blob: Blob, label: String = definedExternally): Unit\r\n   fun readAsDataURL(blob: Blob): Unit\r\n   fun abort(): Unit\r\n\r\n   companion object {\r\n   val EMPTY: Short\r\n   val LOADING: Short\r\n   val DONE: Short\r\n   }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [FileReaderSync](https://developer.mozilla.org/en/docs/Web/API/FileReaderSync) to Kotlin\r\n */\r\npublic external open class FileReaderSync {\r\n   fun readAsArrayBuffer(blob: Blob): ArrayBuffer\r\n   fun readAsBinaryString(blob: Blob): String\r\n   fun readAsText(blob: Blob, label: String = definedExternally): String\r\n   fun readAsDataURL(blob: Blob): String\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\r\n// See libraries/tools/idl2k for details\r\n\r\n@file:Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\r\npackage org.w3c.notifications\r\n\r\nimport kotlin.js.*\r\nimport org.khronos.webgl.*\r\nimport org.w3c.css.masking.*\r\nimport org.w3c.dom.*\r\nimport org.w3c.dom.clipboard.*\r\nimport org.w3c.dom.css.*\r\nimport org.w3c.dom.events.*\r\nimport org.w3c.dom.mediacapture.*\r\nimport org.w3c.dom.parsing.*\r\nimport org.w3c.dom.pointerevents.*\r\nimport org.w3c.dom.svg.*\r\nimport org.w3c.dom.url.*\r\nimport org.w3c.fetch.*\r\nimport org.w3c.files.*\r\nimport org.w3c.performance.*\r\nimport org.w3c.workers.*\r\nimport org.w3c.xhr.*\r\n\r\n/**\r\n * Exposes the JavaScript [Notification](https://developer.mozilla.org/en/docs/Web/API/Notification) to Kotlin\r\n */\r\npublic external open class Notification(title: String, options: NotificationOptions = definedExternally) : EventTarget {\r\n   var onclick:

((MouseEvent) -> dynamic)?\r\n   var onerror: ((Event) -> dynamic)?\r\n   open val title: String\r\n   open val dir: NotificationDirection\r\n   open val lang: String\r\n   open val body: String\r\n   open val tag: String\r\n   open val image: String\r\n   open val icon: String\r\n   open val badge: String\r\n   open val sound: String\r\n   open val vibrate: Array<out Int>\r\n   open val timestamp: Number\r\n   open val renotify: Boolean\r\n   open val silent: Boolean\r\n   open val noscreen: Boolean\r\n   open val requireInteraction: Boolean\r\n   open val sticky: Boolean\r\n   open val data: Any?\r\n   open val actions: Array<out NotificationAction>\r\n   fun close(): Unit\r\n\r\n   companion object {\r\n   var permission: NotificationPermission\r\n   var maxActions: Int\r\n   fun requestPermission(deprecatedCallback: (NotificationPermission) -> Unit = definedExternally): Promise<NotificationPermission>\r\n   }\r\n}\r\n\r\npublic external interface NotificationOptions {\r\n   var dir: NotificationDirection? /* = NotificationDirection.AUTO */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var lang: String? /* = \"\" */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var body: String? /* = \"\" */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var tag: String? /* = \"\" */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var image: String?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var icon: String?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var badge: String?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var sound: String?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var vibrate: dynamic\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var timestamp: Number?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var renotify: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var silent: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var noscreen: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var requireInteraction: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var sticky: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var data: Any? /* = null */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var actions: Array<NotificationAction>? /* = arrayOf() */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun NotificationOptions(dir: NotificationDirection? = NotificationDirection.AUTO, lang: String? = \"\", body: String? = \"\", tag: String? = \"\", image: String? = undefined, icon: String? = undefined, badge: String? = undefined, sound: String? = undefined, vibrate: dynamic = undefined, timestamp: Number? = undefined, renotify: Boolean? = false, silent: Boolean? = false, noscreen: Boolean? = false, requireInteraction: Boolean? = false, sticky: Boolean? = false, data: Any? = null, actions: Array<NotificationAction>? = arrayOf()): NotificationOptions {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"dir\"] = dir\r\n   o[\"lang\"] = lang\r\n   o[\"body\"] = body\r\n   o[\"tag\"] = tag\r\n   o[\"image\"] = image\r\n   o[\"icon\"] = icon\r\n   o[\"badge\"] = badge\r\n   o[\"sound\"] = sound\r\n   o[\"vibrate\"] = vibrate\r\n   o[\"timestamp\"] = timestamp\r\n   o[\"renotify\"] = renotify\r\n   o[\"silent\"] = silent\r\n   o[\"noscreen\"] = noscreen\r\n   o[\"requireInteraction\"] = requireInteraction\r\n   o[\"sticky\"] = sticky\r\n   o[\"data\"] = data\r\n   o[\"actions\"] = actions\r\n\r\n   return o\r\n}\r\n\r\npublic external interface NotificationAction {\r\n   var action: String?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var title: String?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var icon: String?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun NotificationAction(action: String?, title: String?, icon: String? = undefined): NotificationAction {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"action\"] = action\r\n   o[\"title\"] = title\r\n   o[\"icon\"] = icon\r\n\r\n   return o\r\n}\r\n\r\npublic external interface GetNotificationOptions {\r\n   var tag: String? /* = \"\" */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun GetNotificationOptions(tag: String? = \"\"): GetNotificationOptions {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"tag\"] = tag\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [NotificationEvent](https://developer.mozilla.org/en/docs/Web/API/NotificationEvent) to Kotlin\r\n */\r\npublic external open class NotificationEvent(type: String, eventInitDict: NotificationEventInit) : ExtendableEvent {\r\n

open val notification: Notification\r\n   open val action: String\r\n}\r\n\r\npublic external interface NotificationEventInit : ExtendableEventInit {\r\n   var notification: Notification?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var action: String? /* = \"\" */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun NotificationEventInit(notification: Notification?, action: String? = \"\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): NotificationEventInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"notification\"] = notification\r\n   o[\"action\"] = action\r\n   o[\"bubbles\"] = bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface NotificationPermission {\r\n   companion object\r\n}\r\npublic inline val NotificationPermission.Companion.DEFAULT: NotificationPermission get() = \"default\".asDynamic().unsafeCast<NotificationPermission>()\r\npublic inline val NotificationPermission.Companion.DENIED: NotificationPermission get() = \"denied\".asDynamic().unsafeCast<NotificationPermission>()\r\npublic inline val NotificationPermission.Companion.GRANTED: NotificationPermission get() = \"granted\".asDynamic().unsafeCast<NotificationPermission>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface NotificationDirection {\r\n   companion object\r\n}\r\npublic inline val NotificationDirection.Companion.AUTO: NotificationDirection get() = \"auto\".asDynamic().unsafeCast<NotificationDirection>()\r\npublic inline val NotificationDirection.Companion.LTR: NotificationDirection get() = \"ltr\".asDynamic().unsafeCast<NotificationDirection>()\r\npublic inline val NotificationDirection.Companion.RTL: NotificationDirection get() = \"rtl\".asDynamic().unsafeCast<NotificationDirection>()\r\n\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\r\n// See libraries/tools/idl2k for details\r\n\r\n@file:Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\r\npackage org.w3c.workers\r\n\r\nimport kotlin.js.*\r\nimport org.khronos.webgl.*\r\nimport org.w3c.css.masking.*\r\nimport org.w3c.dom.*\r\nimport org.w3c.dom.clipboard.*\r\nimport org.w3c.dom.css.*\r\nimport org.w3c.dom.events.*\r\nimport org.w3c.dom.mediacapture.*\r\nimport org.w3c.dom.parsing.*\r\nimport org.w3c.dom.pointerevents.*\r\nimport org.w3c.dom.svg.*\r\nimport org.w3c.dom.url.*\r\nimport org.w3c.fetch.*\r\nimport org.w3c.files.*\r\nimport org.w3c.notifications.*\r\nimport org.w3c.performance.*\r\nimport org.w3c.xhr.*\r\n\r\n/**\r\n * Exposes the JavaScript [ServiceWorkerRegistration](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerRegistration) to Kotlin\r\n */\r\npublic external abstract class ServiceWorkerRegistration : EventTarget {\r\n   open val installing: ServiceWorker?\r\n   open val waiting: ServiceWorker?\r\n   open val active: ServiceWorker?\r\n   open val scope: String\r\n   open var onupdatefound: ((Event) -> dynamic)?\r\n   open val APISpace: dynamic\r\n   fun update(): Promise<Unit>\r\n   fun unregister(): Promise<Boolean>\r\n   fun methodName(): Promise<dynamic>\r\n   fun showNotification(title: String, options: NotificationOptions = definedExternally): Promise<Unit>\r\n   fun getNotifications(filter: GetNotificationOptions = definedExternally): Promise<dynamic>\r\n}\r\n\r\n\r\n/**\r\n * Exposes the JavaScript [ServiceWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerGlobalScope) to Kotlin\r\n */\r\npublic external abstract class ServiceWorkerGlobalScope : WorkerGlobalScope {\r\n   open val clients: Clients\r\n   open val registration: ServiceWorkerRegistration\r\n   open var oninstall: ((Event) -> dynamic)?\r\n   open var onactivate: ((Event) -> dynamic)?\r\n   open var onfetch: ((FetchEvent) -> dynamic)?\r\n   open var onforeignfetch: ((Event) -> dynamic)?\r\n   open var onmessage: ((MessageEvent) -> dynamic)?\r\n   open var onfunctionalevent: ((Event) -> dynamic)?\r\n   open var onnotificationclick: ((NotificationEvent) -> dynamic)?\r\n   open var onnotificationclose: ((NotificationEvent) -> dynamic)?\r\n   fun skipWaiting(): Promise<Unit>\r\n}\r\n\r\n\r\n/**\r\n * Exposes the JavaScript

[ServiceWorker](https://developer.mozilla.org/en/docs/Web/API/ServiceWorker) to Kotlin\r\n */\r\npublic external abstract class ServiceWorker : EventTarget, AbstractWorker, UnionMessagePortOrServiceWorker, UnionClientOrMessagePortOrServiceWorker {\r\n open val scriptURL: String\r\n open val state: ServiceWorkerState\r\n open var onstatechange: ((Event) -> dynamic)?\r\n fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ServiceWorkerContainer](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerContainer) to Kotlin\r\n */\r\npublic external abstract class ServiceWorkerContainer : EventTarget {\r\n open val controller: ServiceWorker?\r\n open val ready: Promise<ServiceWorkerRegistration>\r\n open var oncontrollerchange: ((Event) -> dynamic)?\r\n open var onmessage: ((MessageEvent) -> dynamic)?\r\n fun register(scriptURL: String, options: RegistrationOptions = definedExternally): Promise<ServiceWorkerRegistration>\r\n fun getRegistration(clientURL: String = definedExternally): Promise<Any?>\r\n fun getRegistrations(): Promise<dynamic>\r\n fun startMessages(): Unit\r\n}\r\n\r\npublic external interface RegistrationOptions {\r\n var scope: String?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var type: WorkerType? /* = WorkerType.CLASSIC */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun RegistrationOptions(scope: String? = undefined, type: WorkerType? = WorkerType.CLASSIC): RegistrationOptions {\r\n val o = js(\"({})\")\r\n\r\n o[\"scope\"] = scope\r\n o[\"type\"] = type\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ServiceWorkerMessageEvent](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerMessageEvent) to Kotlin\r\n */\r\npublic external open class ServiceWorkerMessageEvent(type: String, eventInitDict: ServiceWorkerMessageEventInit = definedExternally) : Event {\r\n open val data: Any?\r\n open val origin: String\r\n open val lastEventId: String\r\n open val source: UnionMessagePortOrServiceWorker?\r\n open val ports: Array<out MessagePort>?\r\n}\r\n\r\npublic external interface ServiceWorkerMessageEventInit : EventInit {\r\n var data: Any?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var origin: String?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var lastEventId: String?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var source: UnionMessagePortOrServiceWorker?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var ports: Array<MessagePort>?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ServiceWorkerMessageEventInit(data: Any? = undefined, origin: String? = undefined, lastEventId: String? = undefined, source: UnionMessagePortOrServiceWorker? = undefined, ports: Array<MessagePort>? = undefined, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ServiceWorkerMessageEventInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"data\"] = data\r\n o[\"origin\"] = origin\r\n o[\"lastEventId\"] = lastEventId\r\n o[\"source\"] = source\r\n o[\"ports\"] = ports\r\n o[\"bubbles\"] = bubbles\r\n o[\"cancelable\"] = cancelable\r\n o[\"composed\"] = composed\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Client](https://developer.mozilla.org/en/docs/Web/API/Client) to Kotlin\r\n */\r\npublic external abstract class Client : UnionClientOrMessagePortOrServiceWorker {\r\n open val url: String\r\n open val frameType: FrameType\r\n open val id: String\r\n fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [WindowClient](https://developer.mozilla.org/en/docs/Web/API/WindowClient) to Kotlin\r\n */\r\npublic external abstract class WindowClient : Client {\r\n open val visibilityState: dynamic\r\n open val focused: Boolean\r\n fun focus(): Promise<WindowClient>\r\n fun navigate(url: String): Promise<WindowClient>\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Clients](https://developer.mozilla.org/en/docs/Web/API/Clients) to Kotlin\r\n */\r\npublic external abstract class Clients {\r\n fun get(id: String): Promise<Any?>\r\n fun matchAll(options: ClientQueryOptions = definedExternally): Promise<dynamic>\r\n fun openWindow(url: String): Promise<WindowClient?>\r\n fun claim(): Promise<Unit>\r\n}\r\n\r\npublic external interface ClientQueryOptions {\r\n var includeUncontrolled: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var type: ClientType? /* = ClientType.WINDOW */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun

ClientQueryOptions(includeUncontrolled: Boolean? = false, type: ClientType? = ClientType.WINDOW): ClientQueryOptions {\r\n val o = js(\"({})\")\r\n\r\n o[\"includeUncontrolled\"] = includeUncontrolled\r\n o[\"type\"] = type\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ExtendableEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableEvent) to Kotlin\r\n */\r\npublic external open class ExtendableEvent(type: String, eventInitDict: ExtendableEventInit = definedExternally) : Event {\r\n fun waitUntil(f: Promise<Any?>): Unit\r\n}\r\n\r\npublic external interface ExtendableEventInit : EventInit {\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ExtendableEventInit(bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ExtendableEventInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"bubbles\"] = bubbles\r\n o[\"cancelable\"] = cancelable\r\n o[\"composed\"] = composed\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [InstallEvent](https://developer.mozilla.org/en/docs/Web/API/InstallEvent) to Kotlin\r\n */\r\npublic external open class InstallEvent(type: String, eventInitDict: ExtendableEventInit = definedExternally) : ExtendableEvent {\r\n fun registerForeignFetch(options: ForeignFetchOptions): Unit\r\n}\r\n\r\npublic external interface ForeignFetchOptions {\r\n var scopes: Array<String>?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var origins: Array<String>?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ForeignFetchOptions(scopes: Array<String>?, origins: Array<String>?): ForeignFetchOptions {\r\n val o = js(\"({})\")\r\n\r\n o[\"scopes\"] = scopes\r\n o[\"origins\"] = origins\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [FetchEvent](https://developer.mozilla.org/en/docs/Web/API/FetchEvent) to Kotlin\r\n */\r\npublic external open class FetchEvent(type: String, eventInitDict: FetchEventInit) : ExtendableEvent {\r\n open val request: Request\r\n open val clientId: String?\r\n open val isReload: Boolean\r\n fun respondWith(r: Promise<Response>): Unit\r\n}\r\n\r\npublic external interface FetchEventInit : ExtendableEventInit {\r\n var request: Request?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var clientId: String? /* = null */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var isReload: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun FetchEventInit(request: Request?, clientId: String? = null, isReload: Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): FetchEventInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"request\"] = request\r\n o[\"clientId\"] = clientId\r\n o[\"isReload\"] = isReload\r\n o[\"bubbles\"] = bubbles\r\n o[\"cancelable\"] = cancelable\r\n o[\"composed\"] = composed\r\n\r\n return o\r\n}\r\n\r\npublic external open class ForeignFetchEvent(type: String, eventInitDict: ForeignFetchEventInit) : ExtendableEvent {\r\n open val request: Request\r\n open val origin: String\r\n fun respondWith(r: Promise<ForeignFetchResponse>): Unit\r\n}\r\n\r\npublic external interface ForeignFetchEventInit : ExtendableEventInit {\r\n var request: Request?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var origin: String? /* = \"null\" */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ForeignFetchEventInit(request: Request?, origin: String? = \"null\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ForeignFetchEventInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"request\"] = request\r\n o[\"origin\"] = origin\r\n o[\"bubbles\"] = bubbles\r\n o[\"cancelable\"] = cancelable\r\n o[\"composed\"] = composed\r\n\r\n return o\r\n}\r\n\r\npublic external interface ForeignFetchResponse {\r\n var response: Response?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var origin: String?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var headers: Array<String>?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ForeignFetchResponse(response: Response?, origin: String? = undefined, headers: Array<String>? = undefined): ForeignFetchResponse {\r\n val o = js(\"({})\")\r\n\r\n o[\"response\"] = response\r\n o[\"origin\"] = origin\r\n o[\"headers\"] = headers\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ExtendableMessageEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableMessageEvent) to Kotlin\r\n */\r\npublic external open class ExtendableMessageEvent(type: String, eventInitDict: ExtendableMessageEventInit = definedExternally) : ExtendableEvent {\r\n open val data: Any?\r\n open val origin: String\r\n open val

lastEventId: String\r\n open val source: UnionClientOrMessagePortOrServiceWorker?\r\n open val ports: Array<out MessagePort>?\r\n}\r\n\r\npublic external interface ExtendableMessageEventInit : ExtendableEventInit {\r\n var data: Any?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var origin: String?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var lastEventId: String?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var source: UnionClientOrMessagePortOrServiceWorker?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var ports: Array<MessagePort>?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ExtendableMessageEventInit(data: Any? = undefined, origin: String? = undefined, lastEventId: String? = undefined, source: UnionClientOrMessagePortOrServiceWorker? = undefined, ports: Array<MessagePort>? = undefined, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ExtendableMessageEventInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"data\"] = data\r\n o[\"origin\"] = origin\r\n o[\"lastEventId\"] = lastEventId\r\n o[\"source\"] = source\r\n o[\"ports\"] = ports\r\n o[\"bubbles\"] = bubbles\r\n o[\"cancelable\"] = cancelable\r\n o[\"composed\"] = composed\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Cache](https://developer.mozilla.org/en/docs/Web/API/Cache) to Kotlin\r\n */\r\npublic external abstract class Cache {\r\n fun match(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Any?>\r\n fun matchAll(request: dynamic = definedExternally, options: CacheQueryOptions = definedExternally): Promise<dynamic>\r\n fun add(request: dynamic): Promise<Unit>\r\n fun addAll(requests: Array<dynamic>): Promise<Unit>\r\n fun put(request: dynamic, response: Response): Promise<Unit>\r\n fun delete(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Boolean>\r\n fun keys(request: dynamic = definedExternally, options: CacheQueryOptions = definedExternally): Promise<dynamic>\r\n}\r\n\r\npublic external interface CacheQueryOptions {\r\n var ignoreSearch: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var ignoreMethod: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var ignoreVary: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var cacheName: String?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun CacheQueryOptions(ignoreSearch: Boolean? = false, ignoreMethod: Boolean? = false, ignoreVary: Boolean? = false, cacheName: String? = undefined): CacheQueryOptions {\r\n val o = js(\"({})\")\r\n\r\n o[\"ignoreSearch\"] = ignoreSearch\r\n o[\"ignoreMethod\"] = ignoreMethod\r\n o[\"ignoreVary\"] = ignoreVary\r\n o[\"cacheName\"] = cacheName\r\n\r\n return o\r\n}\r\n\r\npublic external interface CacheBatchOperation {\r\n var type: String?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var request: Request?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var response: Response?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var options: CacheQueryOptions?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun CacheBatchOperation(type: String? = undefined, request: Request? = undefined, response: Response? = undefined, options: CacheQueryOptions? = undefined): CacheBatchOperation {\r\n val o = js(\"({})\")\r\n\r\n o[\"type\"] = type\r\n o[\"request\"] = request\r\n o[\"response\"] = response\r\n o[\"options\"] = options\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CacheStorage](https://developer.mozilla.org/en/docs/Web/API/CacheStorage) to Kotlin\r\n */\r\npublic external abstract class CacheStorage {\r\n fun match(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Any?>\r\n fun has(cacheName: String): Promise<Boolean>\r\n fun open(cacheName: String): Promise<Cache>\r\n fun delete(cacheName: String): Promise<Boolean>\r\n fun keys(): Promise<dynamic>\r\n}\r\n\r\npublic external open class FunctionalEvent : ExtendableEvent {\r\n}\r\n\r\npublic external @marker interface UnionClientOrMessagePortOrServiceWorker {\r\n}\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface ServiceWorkerState {\r\n companion object\r\n}\r\npublic inline val ServiceWorkerState.Companion.INSTALLING: ServiceWorkerState get() = \"installing\".asDynamic().unsafeCast<ServiceWorkerState>()\r\npublic inline val ServiceWorkerState.Companion.INSTALLED: ServiceWorkerState get() =

\"installed\".asDynamic().unsafeCast<ServiceWorkerState>()\r\npublic inline val ServiceWorkerState.Companion.ACTIVATING: ServiceWorkerState get() = \"activating\".asDynamic().unsafeCast<ServiceWorkerState>()\r\npublic inline val ServiceWorkerState.Companion.ACTIVATED: ServiceWorkerState get() = \"activated\".asDynamic().unsafeCast<ServiceWorkerState>()\r\npublic inline val ServiceWorkerState.Companion.REDUNDANT: ServiceWorkerState get() = \"redundant\".asDynamic().unsafeCast<ServiceWorkerState>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface FrameType {\r\n   companion object\r\n}\r\npublic inline val FrameType.Companion.AUXILIARY: FrameType get() = \"auxiliary\".asDynamic().unsafeCast<FrameType>()\r\npublic inline val FrameType.Companion.TOP_LEVEL: FrameType get() = \"top-level\".asDynamic().unsafeCast<FrameType>()\r\npublic inline val FrameType.Companion.NESTED: FrameType get() = \"nested\".asDynamic().unsafeCast<FrameType>()\r\npublic inline val FrameType.Companion.NONE: FrameType get() = \"none\".asDynamic().unsafeCast<FrameType>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface ClientType {\r\n   companion object\r\n}\r\npublic inline val ClientType.Companion.WINDOW: ClientType get() = \"window\".asDynamic().unsafeCast<ClientType>()\r\npublic inline val ClientType.Companion.WORKER: ClientType get() = \"worker\".asDynamic().unsafeCast<ClientType>()\r\npublic inline val ClientType.Companion.SHAREDWORKER: ClientType get() = \"sharedworker\".asDynamic().unsafeCast<ClientType>()\r\npublic inline val ClientType.Companion.ALL: ClientType get() = \"all\".asDynamic().unsafeCast<ClientType>()\r\n\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\r\n// See libraries/tools/idl2k for details\r\n\r\n@file:Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\r\npackage org.w3c.xhr\r\n\r\n\r\nimport kotlin.js.*\r\nimport org.khronos.webgl.*\r\nimport org.w3c.css.masking.*\r\nimport org.w3c.dom.*\r\nimport org.w3c.dom.clipboard.*\r\nimport org.w3c.dom.css.*\r\nimport org.w3c.dom.events.*\r\nimport org.w3c.dom.mediacapture.*\r\nimport org.w3c.dom.parsing.*\r\nimport org.w3c.dom.pointerevents.*\r\nimport org.w3c.dom.svg.*\r\nimport org.w3c.dom.url.*\r\nimport org.w3c.fetch.*\r\nimport org.w3c.files.*\r\nimport org.w3c.notifications.*\r\nimport org.w3c.performance.*\r\nimport org.w3c.workers.*\r\n\r\n\r\n/**\r\n * Exposes the JavaScript [XMLHttpRequestEventTarget](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequestEventTarget) to Kotlin\r\n */\r\npublic external abstract class XMLHttpRequestEventTarget : EventTarget {\r\n   open var onloadstart: ((ProgressEvent) -> dynamic)?\r\n   open var onprogress: ((ProgressEvent) -> dynamic)?\r\n   open var onabort: ((Event) -> dynamic)?\r\n   open var onerror: ((Event) -> dynamic)?\r\n   open var onload: ((Event) -> dynamic)?\r\n   open var ontimeout: ((Event) -> dynamic)?\r\n   open var onloadend: ((Event) -> dynamic)?\r\n}\r\n\r\n\r\npublic external abstract class XMLHttpRequestUpload : XMLHttpRequestEventTarget {\r\n}\r\n\r\n\r\n/**\r\n * Exposes the JavaScript [XMLHttpRequest](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequest) to Kotlin\r\n */\r\npublic external open class XMLHttpRequest : XMLHttpRequestEventTarget {\r\n   var onreadystatechange: ((Event) -> dynamic)?\r\n   open val readyState: Short\r\n   var timeout: Int\r\n   var withCredentials: Boolean\r\n   open val upload: XMLHttpRequestUpload\r\n   open val responseURL: String\r\n   open val status: Short\r\n   open val statusText: String\r\n   var responseType: XMLHttpRequestResponseType\r\n   open val response: Any?\r\n   open val responseText: String\r\n   open val responseXML: Document?\r\n   fun open(method: String, url: String): Unit\r\n   fun open(method: String, url: String, async: Boolean, username: String? = definedExternally, password: String? = definedExternally): Unit\r\n   fun setRequestHeader(name: String, value: String): Unit\r\n   fun send(body: dynamic = definedExternally): Unit\r\n   fun abort(): Unit\r\n   fun getResponseHeader(name: String): String?\r\n   fun getAllResponseHeaders(): String\r\n   fun overrideMimeType(mime: String): Unit\r\n\r\n\r\n   companion object {\r\n   val UNSENT: Short\r\n   val OPENED: Short\r\n   val HEADERS_RECEIVED:

Short\r\n val LOADING: Short\r\n val DONE: Short\r\n }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [FormData](https://developer.mozilla.org/en/docs/Web/API/FormData) to Kotlin\r\n */\r\npublic external open class FormData(form: HTMLFormElement = definedExternally) {\r\n fun append(name: String, value: String): Unit\r\n fun append(name: String, value: Blob, filename: String = definedExternally): Unit\r\n fun delete(name: String): Unit\r\n fun get(name: String): dynamic\r\n fun getAll(name: String): Array<dynamic>\r\n fun has(name: String): Boolean\r\n fun set(name: String, value: String): Unit\r\n fun set(name: String, value: Blob, filename: String = definedExternally): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ProgressEvent](https://developer.mozilla.org/en/docs/Web/API/ProgressEvent) to Kotlin\r\n */\r\npublic external open class ProgressEvent(type: String, eventInitDict: ProgressEventInit = definedExternally) : Event {\r\n open val lengthComputable: Boolean\r\n open val loaded: Int\r\n open val total: Int\r\n}\r\n\r\npublic external interface ProgressEventInit : EventInit {\r\n var lengthComputable: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var loaded: Int? /* = 0 */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var total: Int? /* = 0 */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ProgressEventInit(lengthComputable: Boolean? = false, loaded: Int? = 0, total: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ProgressEventInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"lengthComputable\"] = lengthComputable\r\n o[\"loaded\"] = loaded\r\n o[\"total\"] = total\r\n o[\"bubbles\"] = bubbles\r\n o[\"cancelable\"] = cancelable\r\n o[\"composed\"] = composed\r\n\r\n return o\r\n}\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface XMLHttpRequestResponseType {\r\n companion object\r\n}\r\npublic inline val XMLHttpRequestResponseType.Companion.EMPTY: XMLHttpRequestResponseType get() = \"\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\r\npublic inline val XMLHttpRequestResponseType.Companion.ARRAYBUFFER: XMLHttpRequestResponseType get() = \"arraybuffer\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\r\npublic inline val XMLHttpRequestResponseType.Companion.BLOB: XMLHttpRequestResponseType get() = \"blob\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\r\npublic inline val XMLHttpRequestResponseType.Companion.DOCUMENT: XMLHttpRequestResponseType get() = \"document\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\r\npublic inline val XMLHttpRequestResponseType.Companion.JSON: XMLHttpRequestResponseType get() = \"json\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\r\npublic inline val XMLHttpRequestResponseType.Companion.TEXT: XMLHttpRequestResponseType get() = \"text\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin\r\n\r\nimport kotlin.annotation.AnnotationRetention.BINARY\r\nimport kotlin.annotation.AnnotationRetention.SOURCE\r\nimport kotlin.annotation.AnnotationTarget.*\r\nimport kotlin.internal.RequireKotlin\r\nimport kotlin.internal.RequireKotlinVersionKind\r\nimport kotlin.reflect.KClass\r\n\r\n/**\r\n * Signals that the annotated annotation class is a marker of an experimental API.\r\n *\r\n * Any declaration annotated with that marker is considered an experimental declaration\r\n * and its call sites should accept the experimental aspect of it either by using [UseExperimental],\r\n * or by being annotated with that marker themselves, effectively causing further propagation of that experimental aspect.\r\n *\r\n * This class is experimental itself and can only be used with the compiler argument `-Xuse-experimental=kotlin.Experimental`.\r\n */\r\n@Target(ANNOTATION_CLASS)\r\n@Retention(BINARY)\r\n@SinceKotlin(\"1.2\")\r\n@RequireKotlin(\"1.2.50\", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\r\n@Suppress(\"ANNOTATION_CLASS_MEMBER\")\r\npublic annotation class Experimental(val level: Level = Level.ERROR) {\r\n /**\r\n * Severity of the diagnostic that should be reported on usages of experimental API which did not explicitly accept the experimental aspect\r\n

* of that API either by using [UseExperimental] or by being annotated with the corresponding marker annotation.\r\n */\r\n public enum class Level {\r\n /** Specifies that a warning should be reported on incorrect usages of this experimental API. */\r\n WARNING,\r\n /** Specifies that an error should be reported on incorrect usages of this experimental API. */\r\n ERROR,\r\n }\r\n}\r\n\r\n/**\r\n * Allows to use experimental API denoted by the given markers in the annotated file, declaration, or expression.\r\n * If a declaration is annotated with [UseExperimental], its usages are **not** required to opt-in to that experimental API.\r\n *\r\n * This class is experimental itself and can only be used with the compiler argument `-Xuse-experimental=kotlin.Experimental`.\r\n */\r\n@Target(\r\n CLASS, PROPERTY, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER, EXPRESSION, FILE,
TYPEALIAS\r\n)\r\n@Retention(SOURCE)\r\n@SinceKotlin(\"1.2\")\r\n@RequireKotlin(\"1.2.50\", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\r\npublic annotation class UseExperimental(\r\n vararg val markerClass: KClass<out Annotation>\r\n)\r\n\r\n\r\n@Target(CLASS, PROPERTY, CONSTRUCTOR, FUNCTION, TYPEALIAS)\r\n@Retention(BINARY)\r\ninternal annotation class WasExperimental(\r\n vararg val markerClass: KClass<out Annotation>\r\n)\r\n","package kotlin\r\n\r\nimport kotlin.annotation.AnnotationTarget.*\r\n\r\n/**\r\n * This annotation marks the standard library API that is considered experimental and is not subject to the\r\n * [general compatibility guarantees](https://kotlinlang.org/docs/reference/evolution/components-stability.html) given for the standard library:\r\n * the behavior of such API may be changed or the API may be removed completely in any further release.\r\n *\r\n * > Beware using the annotated API especially if you're developing a library, since your library might become binary incompatible\r\n * with the future versions of the standard library.\r\n *\r\n * Any usage of a declaration annotated with `@ExperimentalStdlibApi` must be accepted either by\r\n * annotating that usage with the [UseExperimental] annotation, e.g. `@UseExperimental(ExperimentalStdlibApi::class)`,\r\n * or by using the compiler argument `-Xuse-experimental=kotlin.ExperimentalStdlibApi`.\r\n */\r\n@Experimental(level = Experimental.Level.ERROR)\r\n@Retention(AnnotationRetention.BINARY)\r\n@Target(\r\n CLASS,\r\n ANNOTATION_CLASS,\r\n PROPERTY,\r\n FIELD,\r\n LOCAL_VARIABLE,\r\n VALUE_PARAMETER,\r\n CONSTRUCTOR,\r\n FUNCTION,\r\n PROPERTY_GETTER,\r\n PROPERTY_SETTER,\r\n
TYPEALIAS\r\n)\r\n@MustBeDocumented\r\n@ExperimentalStdlibApi\r\n@SinceKotlin(\"1.3\") // TODO: Remove experimental status from itself and advance SinceKotlin to 1.4\r\npublic annotation class ExperimentalStdlibApi\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin\r\n\r\nimport kotlin.annotation.AnnotationTarget.*\r\nimport kotlin.experimental.ExperimentalTypeInference\r\n\r\n/**\r\n * Allows to infer generic type arguments of a function from the calls in the annotated function parameter of that function.\r\n *\r\n * When this annotation is placed on a generic function parameter of a function,\r\n * it enables to infer the type arguments of that generic function from the lambda body passed to that parameter.\r\n *\r\n * The calls that affect inference are either members of the receiver type of an annotated function parameter or\r\n * extensions for that type. The extensions must be themselves annotated with `@BuilderInference`.\r\n *\r\n * Example: we declare\r\n * ```\r\n * fun <T> sequence(@BuilderInference block: suspend SequenceScope<T>.() -> Unit): Sequence<T>\r\n * ```\r\n * and use it like\r\n * ```\r\n * val result = sequence { yield(\"result\") }\r\n * ```\r\n * Here the type argument of the resulting sequence is inferred to `String` from\r\n * the argument of the [SequenceScope.yield] function, that is called inside the lambda passed to [sequence].\r\n *\r\n * Note: this annotation is experimental, see [ExperimentalTypeInference] on how to opt-in for it.\r\n */\r\n@Target(VALUE_PARAMETER, FUNCTION, PROPERTY)\r\n@Retention(AnnotationRetention.BINARY)\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTypeInference\r\npublic annotation class BuilderInference\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin\r\n\r\nimport

kotlin.annotation.AnnotationTarget.*\r\nimport kotlin.internal.RequireKotlin\r\nimport kotlin.internal.RequireKotlinVersionKind\r\n\r\n/**\r\n * The experimental multiplatform support API marker.\r\n *\r\n * Any usage of a declaration annotated with `@ExperimentalMultiplatform` must be accepted either by\r\n * annotating that usage with the [UseExperimental] annotation, e.g. `@UseExperimental(ExperimentalMultiplatform::class)`,\r\n * or by using the compiler argument `-Xuse-experimental=kotlin.ExperimentalMultiplatform`.\r\n */\r\n@Experimental\r\n@MustBeDocumented\r\n@Target(\r\n CLASS,\r\n ANNOTATION_CLASS,\r\n PROPERTY,\r\n FIELD,\r\n LOCAL_VARIABLE,\r\n VALUE_PARAMETER,\r\n CONSTRUCTOR,\r\n FUNCTION,\r\n PROPERTY_GETTER,\r\n PROPERTY_SETTER,\r\n TYPEALIAS\r\n)\r\n@Retention(AnnotationRetention.BINARY)\r\n@RequireKotlin(\"1.2.50\", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\r\npublic annotation class ExperimentalMultiplatform\r\n\r\n/**\r\n * Marks an expected annotation class that it isn't required to have actual counterparts in all platforms.\r\n *\r\n * This annotation is only applicable to `expect` annotation classes in multi-platform projects and marks that class as \"optional\".\r\n * Optional expected class is allowed to have no corresponding actual class on the platform. Optional annotations can only be used\r\n * to annotate something, not as types in signatures. If an optional annotation has no corresponding actual class on a platform,\r\n * the annotation entries where it's used are simply erased when compiling code on that platform.\r\n *\r\n * Note: this annotation is experimental, see [ExperimentalMultiplatform] on how to opt-in for it.\r\n */\r\n@Target(ANNOTATION_CLASS)\r\n@Retention(AnnotationRetention.BINARY)\r\n@ExperimentalMultiplatform\r\n@RequireKotlin(\"1.2.50\", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\r\npublic annotation class OptionalExpectation\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\npackage kotlin.collections\r\n\r\nimport kotlin.js.JsName\r\n\r\n/**\r\n * Provides a skeletal implementation of the read-only [Collection] interface.\r\n *\r\n * @param E the type of elements contained in the collection. The collection is covariant on its element type.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic abstract class AbstractCollection<out E> protected constructor() : Collection<E> {\r\n abstract override val size: Int\r\n abstract override fun iterator(): Iterator<E>\r\n\r\n override fun contains(element: @UnsafeVariance E): Boolean = any { it == element }\r\n\r\n override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean =\r\n elements.all { contains(it) } // use when js will support bound refs: elements.all(this::contains)\r\n\r\n override fun isEmpty(): Boolean = size == 0\r\n\r\n override fun toString(): String = joinToString(\", \", \"[\", \"]\") {\r\n if (it === this) \"(this Collection)\" else it.toString()\r\n }\r\n\r\n /**\r\n * Returns new array of type `Array<Any?>` with the elements of this collection.\r\n */\r\n @JsName(\"toArray\")\r\n protected open fun toArray(): Array<Any?> = copyToArrayImpl(this)\r\n\r\n /**\r\n * Fills the provided [array] or creates new array of the same type\r\n * and fills it with the elements of this collection.\r\n */\r\n protected open fun <T> toArray(array: Array<T>): Array<T> = copyToArrayImpl(this, array)\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.collections\r\n\r\n\r\nprivate enum class State {\r\n Ready,\r\n NotReady,\r\n Done,\r\n Failed\r\n}\r\n\r\n/**\r\n * A base class to simplify implementing iterators so that implementations only have to implement [computeNext]\r\n * to implement the iterator, calling [done] when the iteration is complete.\r\n */\r\npublic abstract class AbstractIterator<T> : Iterator<T> {\r\n private var state = State.NotReady\r\n private var nextValue: T? = null\r\n\r\n override fun hasNext(): Boolean {\r\n require(state != State.Failed)\r\n return when (state) {\r\n State.Done -> false\r\n State.Ready -> true\r\n else -> tryToComputeNext()\r\n }\r\n }\r\n\r\n override fun next(): T {\r\n if (!hasNext()) throw NoSuchElementException()\r\n state = State.NotReady\r\n\r\n @Suppress(\"UNCHECKED_CAST\")\r\n return nextValue as T\r\n }\r\n\r\n private fun tryToComputeNext(): Boolean {\r\n state = State.Failed\r\n computeNext()\r\n return state == State.Ready\r\n }\r\n\r\n /**\r\n * Computes the next item in the iterator.\r\n *\r\n * This callback method

should call one of these two methods:\r\n *\r\n * * [setNext] with the next value of the iteration\r\n * * [done] to indicate there are no more elements\r\n *\r\n * Failure to call either method will result in the iteration terminating with a failed state\r\n */\r\n abstract protected fun computeNext(): Unit\r\n\r\n /**\r\n * Sets the next value in the iteration, called from the [computeNext] function\r\n */\r\n protected fun setNext(value: T): Unit {\r\n nextValue = value\r\n state = State.Ready\r\n }\r\n\r\n /**\r\n * Sets the state to done so that the iteration terminates.\r\n */\r\n protected fun done() {\r\n state = State.Done\r\n }\r\n}\r\n\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n/*\r\n * Based on GWT AbstractList\r\n * Copyright 2007 Google Inc.\r\n*/\r\n\r\npackage kotlin.collections\r\n\r\n/**\r\n * Provides a skeletal implementation of the read-only [List] interface.\r\n *\r\n * This class is intended to help implementing read-only lists so it doesn't support concurrent modification tracking.\r\n *\r\n * @param E the type of elements contained in the list. The list is covariant on its element type.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic abstract class AbstractList<out E> protected constructor() : AbstractCollection<E>(), List<E> {\r\n abstract override val size: Int\r\n abstract override fun get(index: Int): E\r\n\r\n override fun iterator(): Iterator<E> = IteratorImpl()\r\n\r\n override fun indexOf(element: @UnsafeVariance E): Int = indexOfFirst { it == element }\r\n\r\n override fun lastIndexOf(element: @UnsafeVariance E): Int = indexOfLast { it == element }\r\n\r\n override fun listIterator(): ListIterator<E> = ListIteratorImpl(0)\r\n\r\n override fun listIterator(index: Int): ListIterator<E> = ListIteratorImpl(index)\r\n\r\n override fun subList(fromIndex: Int, toIndex: Int): List<E> = SubList(this, fromIndex, toIndex)\r\n\r\n private class SubList<out E>(private val list: AbstractList<E>, private val fromIndex: Int, toIndex: Int) : AbstractList<E>(), RandomAccess {\r\n private var _size: Int = 0\r\n\r\n init {\r\n checkRangeIndexes(fromIndex, toIndex, list.size)\r\n this._size = toIndex - fromIndex\r\n }\r\n\r\n override fun get(index: Int): E {\r\n checkElementIndex(index, _size)\r\n\r\n return list[fromIndex + index]\r\n }\r\n\r\n override val size: Int get() = _size\r\n }\r\n\r\n /**\r\n * Compares this list with other list instance with the ordered structural equality.\r\n *\r\n * @return true, if [other] instance is a [List] of the same size, which contains the same elements in the same order.\r\n */\r\n override fun equals(other: Any?): Boolean {\r\n if (other === this) return true\r\n if (other !is List<*>) return false\r\n\r\n return orderedEquals(this, other)\r\n }\r\n\r\n /**\r\n * Returns the hash code value for this list.\r\n */\r\n override fun hashCode(): Int = orderedHashCode(this)\r\n\r\n private open inner class IteratorImpl : Iterator<E> {\r\n /** the index of the item that will be returned on the next call to [next]`()` */\r\n protected var index = 0\r\n\r\n override fun hasNext(): Boolean = index < size\r\n\r\n override fun next(): E {\r\n if (!hasNext()) throw NoSuchElementException()\r\n return get(index++)\r\n }\r\n }\r\n\r\n /**\r\n * Implementation of [ListIterator] for abstract lists.\r\n */\r\n private open inner class ListIteratorImpl(index: Int) : IteratorImpl(), ListIterator<E> {\r\n\r\n init {\r\n checkPositionIndex(index, this@AbstractList.size)\r\n this.index = index\r\n }\r\n\r\n override fun hasPrevious(): Boolean = index > 0\r\n\r\n override fun nextIndex(): Int = index\r\n\r\n override fun previous(): E {\r\n if (!hasPrevious()) throw NoSuchElementException()\r\n return get(--index)\r\n }\r\n\r\n override fun previousIndex(): Int = index - 1\r\n }\r\n\r\n internal companion object {\r\n internal fun checkElementIndex(index: Int, size: Int) {\r\n if (index < 0 || index >= size) {\r\n throw IndexOutOfBoundsException(\"index: $index, size: $size\")\r\n }\r\n }\r\n\r\n internal fun checkPositionIndex(index: Int, size: Int) {\r\n if (index < 0 || index > size) {\r\n throw IndexOutOfBoundsException(\"index: $index, size: $size\")\r\n }\r\n }\r\n\r\n internal fun checkRangeIndexes(fromIndex: Int, toIndex: Int, size: Int) {\r\n if (fromIndex < 0 || toIndex > size) {\r\n throw IndexOutOfBoundsException(\"fromIndex: $fromIndex, toIndex: $toIndex, size: $size\")\r\n }\r\n if (fromIndex > toIndex) {\r\n throw IllegalArgumentException(\"fromIndex: $fromIndex > toIndex: $toIndex\")\r\n }\r\n }\r\n\r\n internal fun checkBoundsIndexes(startIndex: Int, endIndex: Int, size: Int) {\r\n if (startIndex < 0 || endIndex > size) {\r\n throw IndexOutOfBoundsException(\"startIndex: $startIndex, endIndex: $endIndex, size: $size\")\r\n }\r\n if (startIndex > endIndex) {\r\n throw

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IllegalArgumentException(\"startIndex: $startIndex > endIndex: $endIndex\")\r\n            }\r\n        }\r\n\r\n
internal fun orderedHashCode(c: Collection<*>): Int {\r\n            var hashCode = 1\r\n            for (e in c) {\r\n
    hashCode = 31 * hashCode + (e?.hashCode() ?: 0)\r\n            }\r\n            return hashCode\r\n        }\r\n\r\n
internal fun orderedEquals(c: Collection<*>, other: Collection<*>): Boolean {\r\n            if (c.size != other.size)
return false\r\n\r\n            val otherIterator = other.iterator()\r\n            for (elem in c) {\r\n                val elemOther =
otherIterator.next()\r\n                if (elem != elemOther) {\r\n                    return false\r\n                }\r\n            }\r\n
        return true\r\n        }\r\n    }\r\n}","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\r\n */\r\n/*\r\n * Based on GWT AbstractMap\r\n * Copyright 2007 Google Inc.\r\n
*/\r\n\r\npackage kotlin.collections\r\n\r\n/**\r\n * Provides a skeletal implementation of the read-only [Map]
interface.\r\n *\r\n * The implementor is required to implement [entries] property, which should return read-only set
of map entries.\r\n *\r\n * @param K the type of map keys. The map is invariant on its key type.\r\n * @param V
the type of map values. The map is covariant on its value type.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic abstract
class AbstractMap<K, out V> protected constructor() : Map<K, V> {\r\n\r\n    override fun containsKey(key: K):
Boolean {\r\n        return implFindEntry(key) != null\r\n    }\r\n\r\n    override fun containsValue(value:
@UnsafeVariance V): Boolean = entries.any { it.value == value }\r\n\r\n    internal fun containsEntry(entry:
Map.Entry<*, *>?): Boolean {\r\n        // since entry comes from @UnsafeVariance parameters it can be virtually
anything\r\n        if (entry !is Map.Entry<*, *>) return false\r\n        val key = entry.key\r\n        val value =
entry.value\r\n        val ourValue = get(key)\r\n\r\n        if (value != ourValue) {\r\n            return false\r\n
}\r\n\r\n        // Perhaps it was null and we don't contain the key?\r\n        if (ourValue == null &&
!containsKey(key)) {\r\n            return false\r\n        }\r\n\r\n        return true\r\n    }\r\n\r\n\r\n    /**\r\n     *
Compares this map with other instance with the ordered structural equality.\r\n     *\r\n     * @return true, if [other]
instance is a [Map] of the same size, all entries of which are contained in the [entries] set of this map.\r\n     */\r\n
override fun equals(other: Any?): Boolean {\r\n        if (other === this) return true\r\n        if (other !is Map<*, *>)
return false\r\n        if (size != other.size) return false\r\n\r\n        return other.entries.all { containsEntry(it) }\r\n
}\r\n\r\n    override operator fun get(key: K): V? = implFindEntry(key)?.value\r\n\r\n\r\n\r\n    /**\r\n     * Returns the
hash code value for this map.\r\n     *\r\n     * It is the same as the hashCode of [entries] set.\r\n     */\r\n    override
fun hashCode(): Int = entries.hashCode()\r\n\r\n    override fun isEmpty(): Boolean = size == 0\r\n    override val
size: Int get() = entries.size\r\n\r\n    /**\r\n     * Returns a read-only [Set] of all keys in this map.\r\n     *\r\n     *
Accessing this property first time creates a keys view from [entries].\r\n     * All subsequent accesses just return the
created instance.\r\n     */\r\n    override val keys: Set<K>\r\n        get() {\r\n            if (_keys == null) {\r\n
_keys = object : AbstractSet<K>() {\r\n                override operator fun contains(element: K): Boolean =
containsKey(element)\r\n\r\n                override operator fun iterator(): Iterator<K> {\r\n                    val
entryIterator = entries.iterator()\r\n                    return object : Iterator<K> {\r\n                        override fun
hasNext(): Boolean = entryIterator.hasNext()\r\n                        override fun next(): K =
entryIterator.next().key\r\n                    }\r\n                }\r\n\r\n                override val size: Int get() =
this@AbstractMap.size\r\n            }\r\n        }\r\n        return _keys!!\r\n    }\r\n\r\n
@kotlin.jvm.Volatile\r\n    private var _keys: Set<K>? = null\r\n\r\n\r\n    override fun toString(): String =
entries.joinToString(\", \", \"{\", \"}\") { toString(it) }\r\n\r\n    private fun toString(entry: Map.Entry<K, V>): String
= toString(entry.key) + \"=\" + toString(entry.value)\r\n\r\n    private fun toString(o: Any?): String = if (o === this)
\"(this Map)\" else o.toString()\r\n\r\n    /**\r\n     * Returns a read-only [Collection] of all values in this map.\r\n
*\r\n     * Accessing this property first time creates a values view from [entries].\r\n     * All subsequent accesses just
return the created instance.\r\n     */\r\n    override val values: Collection<V>\r\n        get() {\r\n            if (_values ==
null) {\r\n                _values = object : AbstractCollection<V>() {\r\n                    override operator fun
contains(element: @UnsafeVariance V): Boolean = containsValue(element)\r\n\r\n                    override operator fun
iterator(): Iterator<V> {\r\n                        val entryIterator = entries.iterator()\r\n                        return object :
Iterator<V> {\r\n                            override fun hasNext(): Boolean = entryIterator.hasNext()\r\n
override fun next(): V = entryIterator.next().value\r\n                        }\r\n                    }\r\n\r\n                    override
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val size: Int get() = this@AbstractMap.size\r\n }\r\n }\r\n return _values!!\r\n }\r\n\r\n @kotlin.jvm.Volatile\r\n private var _values: Collection<V>? = null\r\n\r\n private fun implFindEntry(key: K): Map.Entry<K, V>? = entries.firstOrNull { it.key == key }\r\n\r\n internal companion object {\r\n\r\n internal fun entryHashCode(e: Map.Entry<*, *>): Int = with(e) { (key?.hashCode() ?: 0) xor (value?.hashCode() ?: 0) }\r\n internal fun entryToString(e: Map.Entry<*, *>): String = with(e) { \"$key=$value\" }\r\n internal fun entryEquals(e: Map.Entry<*, *>, other: Any?): Boolean {\r\n if (other !is Map.Entry<*, *>) return false\r\n return e.key == other.key && e.value == other.value\r\n }\r\n }\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\npackage kotlin.collections\r\n\r\n/**\r\n * Provides a skeletal implementation of the read-only [Set] interface.\r\n *\r\n * This class is intended to help implementing read-only sets so it doesn't support concurrent modification tracking.\r\n *\r\n * @param E the type of elements contained in the set. The set is covariant on its element type.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic abstract class AbstractSet<out E> protected constructor() : AbstractCollection<E>(), Set<E> {\r\n\r\n /**\r\n * Compares this set with other set instance with the unordered structural equality.\r\n *\r\n * @return true, if [other] instance is a [Set] of the same size, all elements of which are contained in this set.\r\n */\r\n override fun equals(other: Any?): Boolean {\r\n if (other === this) return true\r\n if (other !is Set<*>) return false\r\n return setEquals(this, other)\r\n }\r\n\r\n /**\r\n * Returns the hash code value for this set.\r\n */\r\n override fun hashCode(): Int = unorderedHashCode(this)\r\n\r\n internal companion object {\r\n internal fun unorderedHashCode(c: Collection<*>): Int {\r\n var hashCode = 0\r\n for (element in c) {\r\n hashCode += (element?.hashCode() ?: 0)\r\n }\r\n return hashCode\r\n }\r\n\r\n internal fun setEquals(c: Set<*>, other: Set<*>): Boolean {\r\n if (c.size != other.size) return false\r\n return c.containsAll(other)\r\n }\r\n }\r\n\r\n}","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"ArraysKt\")\r\n\r\n\r\npackage kotlin.collections\r\n\r\nimport kotlin.contracts.*\r\n\r\n\r\n/**\r\n * Returns a single list of all elements from all arrays in the given array.\r\n * @sample samples.collections.Arrays.Transformations.flattenArray\r\n */\r\npublic fun <T> Array<out Array<out T>>.flatten(): List<T> {\r\n val result = ArrayList<T>(sumBy { it.size })\r\n for (element in this) {\r\n result.addAll(element)\r\n }\r\n return result\r\n}\r\n\r\n/**\r\n * Returns a pair of lists, where\r\n * *first* list is built from the first values of each pair from this array,\r\n * *second* list is built from the second values of each pair from this array.\r\n * @sample samples.collections.Arrays.Transformations.unzipArray\r\n */\r\npublic fun <T, R> Array<out Pair<T, R>>.unzip(): Pair<List<T>, List<R>> {\r\n val listT = ArrayList<T>(size)\r\n val listR = ArrayList<R>(size)\r\n for (pair in this) {\r\n listT.add(pair.first)\r\n listR.add(pair.second)\r\n }\r\n return listT to listR\r\n}\r\n\r\n/**\r\n * Returns `true` if this nullable array is either null or empty.\r\n * @sample samples.collections.Arrays.Usage.arrayIsNullOrEmpty\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Array<*>?.isNullOrEmpty(): Boolean {\r\n contract {\r\n returns(false) implies (this@isNullOrEmpty != null)\r\n }\r\n\r\n return this == null || this.isEmpty()\r\n}\r\n\r\n/**\r\n * Returns this array if it's not empty\r\n * or the result of calling [defaultValue] function if the array is empty.\r\n *\r\n * @sample samples.collections.Arrays.Usage.arrayIfEmpty\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@kotlin.internal.InlineOnly\r\n@Suppress(\"UPPER_BOUND_CANNOT_BE_ARRAY\")\r\npublic inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : Array<*>, C : R =\r\n if (isEmpty()) defaultValue() else this\r\n\r\n\r\n@UseExperimental(ExperimentalUnsignedTypes::class)\r\n@SinceKotlin(\"1.3\")\r\n@PublishedApi\r\n@kotlin.jvm.JvmName(\"contentDeepEquals\")\r\n@kotlin.js.JsName(\"contentDeepEqualsImpl\")\r\ninternal fun <T> Array<out T>.contentDeepEqualsImpl(other: Array<out T>): Boolean {\r\n if (this === other) return true\r\n if (this.size != other.size) return false\r\n\r\n for (i in indices) {\r\n val v1 = this[i]\r\n val v2 =

other[i]\r\n\r\n   if (v1 === v2) {\r\n   continue\r\n   } else if (v1 == null || v2 == null) {\r\n   return false\r\n   }\r\n\r\n   when {\r\n   v1 is Array<*>   && v2 is Array<*>   -> if (!v1.contentDeepEquals(v2)) return false\r\n   v1 is ByteArray   && v2 is ByteArray   -> if (!v1.contentEquals(v2)) return false\r\n   v1 is ShortArray   && v2 is ShortArray   -> if (!v1.contentEquals(v2)) return false\r\n   v1 is IntArray   && v2 is IntArray   -> if (!v1.contentEquals(v2)) return false\r\n   v1 is LongArray   && v2 is LongArray   -> if (!v1.contentEquals(v2)) return false\r\n   v1 is FloatArray   && v2 is FloatArray   -> if (!v1.contentEquals(v2)) return false\r\n   v1 is DoubleArray && v2 is DoubleArray -> if (!v1.contentEquals(v2)) return false\r\n   v1 is CharArray   && v2 is CharArray   -> if (!v1.contentEquals(v2)) return false\r\n   v1 is BooleanArray && v2 is BooleanArray -> if (!v1.contentEquals(v2)) return false\r\n\r\n   v1 is UByteArray   && v2 is UByteArray   -> if (!v1.contentEquals(v2)) return false\r\n   v1 is UShortArray && v2 is UShortArray -> if (!v1.contentEquals(v2)) return false\r\n   v1 is UIntArray   && v2 is UIntArray   -> if (!v1.contentEquals(v2)) return false\r\n   v1 is ULongArray   && v2 is ULongArray   -> if (!v1.contentEquals(v2)) return false\r\n\r\n   else -> if (v1 != v2) return false\r\n   }\r\n\r\n   }\r\n   return true\r\n}\r\n\r\n@SinceKotlin(\"1.3\")\r\n@PublishedApi\r\n@kotlin.jvm.JvmName(\"contentDeepToString\")\r\n@kotlin.js.JsName(\"contentDeepToStringImpl\")\r\ninternal fun <T> Array<out T>.contentDeepToStringImpl(): String {\r\n   val length = size.coerceAtMost((Int.MAX_VALUE - 2) / 5) * 5 + 2 // in order not to overflow Int.MAX_VALUE\r\n   return buildString(length) {\r\n   contentDeepToStringInternal(this, mutableListOf())\r\n   }\r\n}\r\n\r\n@UseExperimental(ExperimentalUnsignedTypes::class)\r\nprivate fun <T> Array<out T>.contentDeepToStringInternal(result: StringBuilder, processed: MutableList<Array<*>>) {\r\n   if (this in processed) {\r\n   result.append(\"[...]\")\r\n   return\r\n   }\r\n   processed.add(this)\r\n   result.append('[')\r\n\r\n   for (i in indices) {\r\n   if (i != 0) {\r\n   result.append(\", \")\r\n   }\r\n   val element = this[i]\r\n   when (element) {\r\n   null   -> result.append(\"null\")\r\n   is Array<*>   -> element.contentDeepToStringInternal(result, processed)\r\n   is ByteArray   -> result.append(element.contentToString())\r\n   is ShortArray   -> result.append(element.contentToString())\r\n   is IntArray   -> result.append(element.contentToString())\r\n   is LongArray   -> result.append(element.contentToString())\r\n   is FloatArray   -> result.append(element.contentToString())\r\n   is DoubleArray -> result.append(element.contentToString())\r\n   is CharArray   -> result.append(element.contentToString())\r\n   is BooleanArray -> result.append(element.contentToString())\r\n\r\n   is UByteArray   -> result.append(element.contentToString())\r\n   is UShortArray -> result.append(element.contentToString())\r\n   is UIntArray   -> result.append(element.contentToString())\r\n   is ULongArray   -> result.append(element.contentToString())\r\n\r\n   else   -> result.append(element.toString())\r\n   }\r\n   }\r\n   result.append(']')\r\n   processed.removeAt(processed.lastIndex)\r\n}","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.collections\r\n\r\n/**\r\n * Data class representing a value from a collection or sequence, along with its index in that collection or sequence.\r\n *\r\n * @property value the underlying value.\r\n * @property index the index of the value in the collection or sequence.\r\n */\r\npublic data class IndexedValue<out T>(public val index: Int, public val value: T)\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmName(\"MapAccessorsKt\")\r\n\r\npackage kotlin.collections\r\n\r\nimport kotlin.reflect.KProperty\r\nimport kotlin.internal.Exact\r\n\r\n/**\r\n * Returns the value of the property for the given object from this read-only map.\r\n * @param thisRef the object for which the value is requested (not used).\r\n * @param property the metadata for the property, used to get the name of property and lookup the value corresponding to this name in the map.\r\n * @return the property value.\r\n *\r\n * @throws NoSuchElementException when the map doesn't contain value for the property name and doesn't provide an implicit default (see [withDefault]).\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <V, V1 : V> Map<in

String, @Exact V>.getValue(thisRef: Any?, property: KProperty<*>): V1 =\r\n @Suppress(\"UNCHECKED_CAST\") (getOrImplicitDefault(property.name) as V1)\r\n\r\n/**\r\n * Returns the value of the property for the given object from this mutable map.\r\n * @param thisRef the object for which the value is requested (not used).\r\n * @param property the metadata for the property, used to get the name of property and lookup the value corresponding to this name in the map.\r\n * @return the property value.\r\n *\r\n * @throws NoSuchElementException when the map doesn't contain value for the property name and doesn't provide an implicit default (see [withDefault]).\r\n */\r\n@kotlin.jvm.JvmName(\"getVar\")\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <V, V1 : V> MutableMap<in String, out @Exact V>.getValue(thisRef: Any?, property: KProperty<*>): V1 =\r\n @Suppress(\"UNCHECKED_CAST\") (getOrImplicitDefault(property.name) as V1)\r\n\r\n@Deprecated(\"Use getValue() with two type parameters instead\", level = DeprecationLevel.ERROR)\r\n@kotlin.jvm.JvmName(\"getVarContravariant\")\r\n@kotlin.internal.LowPriorityInOverloadResolution\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <V> MutableMap<in String, in V>.getValue(thisRef: Any?, property: KProperty<*>): V =\r\n @Suppress(\"UNCHECKED_CAST\") (getOrImplicitDefault(property.name) as V)\r\n\r\n/**\r\n * Stores the value of the property for the given object in this mutable map.\r\n * @param thisRef the object for which the value is requested (not used).\r\n * @param property the metadata for the property, used to get the name of property and store the value associated with that name in the map.\r\n * @param value the value to set.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <V> MutableMap<in String, in V>.setValue(thisRef: Any?, property: KProperty<*>, value: V) {\r\n this.put(property.name, value)\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"MapsKt\")\r\n\r\npackage kotlin.collections\r\n\r\n/**\r\n * Returns the value for the given key, or the implicit default value for this map.\r\n * By default no implicit value is provided for maps and a [NoSuchElementException] is thrown.\r\n * To create a map with implicit default value use [withDefault] method.\r\n *\r\n * @throws NoSuchElementException when the map doesn't contain a value for the specified key and no implicit default was provided for that map.\r\n */\r\n@kotlin.jvm.JvmName(\"getOrImplicitDefaultNullable\")\r\n@PublishedApi\r\ninternal fun <K, V> Map<K, V>.getOrImplicitDefault(key: K): V {\r\n if (this is MapWithDefault)\r\n return this.getOrImplicitDefault(key)\r\n\r\n return getOrElseNullable(key, { throw NoSuchElementException(\"Key $key is missing in the map.\") })\r\n}\r\n\r\n/**\r\n * Returns a wrapper of this read-only map, having the implicit default value provided with the specified function [defaultValue].\r\n *\r\n * This implicit default value is used when the original map doesn't contain a value for the key specified\r\n * and a value is obtained with [Map.getValue] function, for example when properties are delegated to the map.\r\n *\r\n * When this map already has an implicit default value provided with a former call to [withDefault], it is being replaced by this call.\r\n */\r\npublic fun <K, V> Map<K, V>.withDefault(defaultValue: (key: K) -> V): Map<K, V> =\r\n when (this) {\r\n is MapWithDefault -> this.map.withDefault(defaultValue)\r\n else -> MapWithDefaultImpl(this, defaultValue)\r\n }\r\n\r\n/**\r\n * Returns a wrapper of this mutable map, having the implicit default value provided with the specified function [defaultValue].\r\n *\r\n * This implicit default value is used when the original map doesn't contain a value for the key specified\r\n * and a value is obtained with [Map.getValue] function, for example when properties are delegated to the map.\r\n *\r\n * When this map already has an implicit default value provided with a former call to [withDefault], it is being replaced by this call.\r\n */\r\n@kotlin.jvm.JvmName(\"withDefaultMutable\")\r\npublic fun <K, V> MutableMap<K, V>.withDefault(defaultValue: (key: K) -> V): MutableMap<K, V> =\r\n when (this) {\r\n is MutableMapWithDefault -> this.map.withDefault(defaultValue)\r\n else -> MutableMapWithDefaultImpl(this, defaultValue)\r\n }\r\n\r\n\r\nprivate interface MapWithDefault<K, out V> : Map<K, V> {\r\n public val map: Map<K, V>\r\n public fun getOrImplicitDefault(key: K): V\r\n}\r\n\r\nprivate interface MutableMapWithDefault<K, V> : MutableMap<K, V>, MapWithDefault<K, V> {\r\n public override val map: MutableMap<K, V>\r\n}\r\n\r\n\r\n\r\nprivate class MapWithDefaultImpl<K, out V>(public override val map: Map<K,

V>, private val default: (key: K) -> V) : MapWithDefault<K, V> {\r\n override fun equals(other: Any?): Boolean = map.equals(other)\r\n override fun hashCode(): Int = map.hashCode()\r\n override fun toString(): String = map.toString()\r\n override val size: Int get() = map.size\r\n override fun isEmpty(): Boolean = map.isEmpty()\r\n override fun containsKey(key: K): Boolean = map.containsKey(key)\r\n override fun containsValue(value: @UnsafeVariance V): Boolean = map.containsValue(value)\r\n override fun get(key: K): V? = map.get(key)\r\n override val keys: Set<K> get() = map.keys\r\n override val values: Collection<V> get() = map.values\r\n override val entries: Set<Map.Entry<K, V>> get() = map.entries\r\n\r\n override fun getOrImplicitDefault(key: K): V = map.getOrElseNullable(key, { default(key) })\r\n}\r\n\r\nprivate class MutableMapWithDefaultImpl<K, V>(public override val map: MutableMap<K, V>, private val default: (key: K) -> V) : MutableMapWithDefault<K, V> {\r\n override fun equals(other: Any?): Boolean = map.equals(other)\r\n override fun hashCode(): Int = map.hashCode()\r\n override fun toString(): String = map.toString()\r\n override val size: Int get() = map.size\r\n override fun isEmpty(): Boolean = map.isEmpty()\r\n override fun containsKey(key: K): Boolean = map.containsKey(key)\r\n override fun containsValue(value: @UnsafeVariance V): Boolean = map.containsValue(value)\r\n override fun get(key: K): V? = map.get(key)\r\n override val keys: MutableSet<K> get() = map.keys\r\n override val values: MutableCollection<V> get() = map.values\r\n override val entries: MutableSet<MutableMap.MutableEntry<K, V>> get() = map.entries\r\n\r\n override fun put(key: K, value: V): V? = map.put(key, value)\r\n override fun remove(key: K): V? = map.remove(key)\r\n override fun putAll(from: Map<out K, V>) = map.putAll(from)\r\n override fun clear() = map.clear()\r\n\r\n override fun getOrImplicitDefault(key: K): V = map.getOrElseNullable(key, { default(key) })\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"CollectionsKt\")\r\n\r\npackage kotlin.collections\r\n\r\nimport kotlin.random.Random\r\n\r\n/**\r\n * Removes a single instance of the specified element from this\r\n * collection, if it is present.\r\n *\r\n * Allows to overcome type-safety restriction of `remove` that requires to pass an element of type `E`.\r\n *\r\n * @return `true` if the element has been successfully removed; `false` if it was not present in the collection.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<out T>.remove(element: T): Boolean =\r\n @Suppress(\"UNCHECKED_CAST\") (this as MutableCollection<T>).remove(element)\r\n\r\n/**\r\n * Removes all of this collection's elements that are also contained in the specified collection.\r\n\r\n * Allows to overcome type-safety restriction of `removeAll` that requires to pass a collection of type `Collection<E>`.\r\n *\r\n * @return `true` if any of the specified elements was removed from the collection, `false` if the collection was not modified.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<out T>.removeAll(elements: Collection<T>): Boolean =\r\n @Suppress(\"UNCHECKED_CAST\") (this as MutableCollection<T>).removeAll(elements)\r\n\r\n/**\r\n * Retains only the elements in this collection that are contained in the specified collection.\r\n *\r\n * Allows to overcome type-safety restriction of `retainAll` that requires to pass a collection of type `Collection<E>`.\r\n *\r\n * @return `true` if any element was removed from the collection, `false` if the collection was not modified.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<out T>.retainAll(elements: Collection<T>): Boolean =\r\n @Suppress(\"UNCHECKED_CAST\") (this as MutableCollection<T>).retainAll(elements)\r\n\r\n/**\r\n * Removes the element at the specified [index] from this list.\r\n * In Kotlin one should use the [MutableList.removeAt] function instead.\r\n */\r\n@Deprecated(\"Use removeAt(index) instead.\", ReplaceWith(\"removeAt(index)\"), level = DeprecationLevel.ERROR)\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> MutableList<T>.remove(index: Int): T = removeAt(index)\r\n\r\n/**\r\n * Adds the specified [element] to this mutable collection.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <T> MutableCollection<in T>.plusAssign(element: T) {\r\n this.add(element)\r\n}\r\n\r\n/**\r\n * Adds all elements of the given [elements] collection to this mutable collection.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <T> MutableCollection<in T>.plusAssign(elements: Iterable<T>) {\r\n this.addAll(elements)\r\n}\r\n\r\n/**\r\n * Adds all elements of the given [elements] array to this mutable

collection.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <T> MutableCollection<in T>.plusAssign(elements: Array<T>) {\r\n this.addAll(elements)\r\n}\r\n\r\n/**\r\n * Adds all elements of the given [elements] sequence to this mutable collection.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <T> MutableCollection<in T>.plusAssign(elements: Sequence<T>) {\r\n this.addAll(elements)\r\n}\r\n\r\n/**\r\n * Removes a single instance of the specified [element] from this mutable collection.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <T> MutableCollection<in T>.minusAssign(element: T) {\r\n this.remove(element)\r\n}\r\n\r\n/**\r\n * Removes all elements contained in the given [elements] collection from this mutable collection.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <T> MutableCollection<in T>.minusAssign(elements: Iterable<T>) {\r\n this.removeAll(elements)\r\n}\r\n\r\n/**\r\n * Removes all elements contained in the given [elements] array from this mutable collection.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <T> MutableCollection<in T>.minusAssign(elements: Array<T>) {\r\n this.removeAll(elements)\r\n}\r\n\r\n/**\r\n * Removes all elements contained in the given [elements] sequence from this mutable collection.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <T> MutableCollection<in T>.minusAssign(elements: Sequence<T>) {\r\n this.removeAll(elements)\r\n}\r\n\r\n/**\r\n * Adds all elements of the given [elements] collection to this [MutableCollection].\r\n */\r\npublic fun <T> MutableCollection<in T>.addAll(elements: Iterable<T>): Boolean {\r\n when (elements) {\r\n is Collection -> return addAll(elements)\r\n else -> {\r\n var result: Boolean = false\r\n for (item in elements)\r\n if (add(item)) result = true\r\n return result\r\n }\r\n }\r\n}\r\n\r\n/**\r\n * Adds all elements of the given [elements] sequence to this [MutableCollection].\r\n */\r\npublic fun <T> MutableCollection<in T>.addAll(elements: Sequence<T>): Boolean {\r\n var result: Boolean = false\r\n for (item in elements) {\r\n if (add(item)) result = true\r\n }\r\n return result\r\n}\r\n\r\n/**\r\n * Adds all elements of the given [elements] array to this [MutableCollection].\r\n */\r\npublic fun <T> MutableCollection<in T>.addAll(elements: Array<out T>): Boolean {\r\n return addAll(elements.asList())\r\n}\r\n\r\n/**\r\n * Removes all elements from this [MutableIterable] that match the given [predicate].\r\n */\r\npublic fun <T> MutableIterable<T>.removeAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, true)\r\n\r\n/**\r\n * Retains only elements of this [MutableIterable] that match the given [predicate].\r\n */\r\npublic fun <T> MutableIterable<T>.retainAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, false)\r\n\r\nprivate fun <T> MutableIterable<T>.filterInPlace(predicate: (T) -> Boolean, predicateResultToRemove: Boolean): Boolean {\r\n var result = false\r\n with(iterator()) {\r\n while (hasNext())\r\n if (predicate(next()) == predicateResultToRemove) {\r\n remove()\r\n result = true\r\n }\r\n }\r\n return result\r\n}\r\n\r\n/**\r\n * Removes all elements from this [MutableList] that match the given [predicate].\r\n */\r\npublic fun <T> MutableList<T>.removeAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, true)\r\n\r\n/**\r\n * Retains only elements of this [MutableList] that match the given [predicate].\r\n */\r\npublic fun <T> MutableList<T>.retainAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, false)\r\n\r\nprivate fun <T> MutableList<T>.filterInPlace(predicate: (T) -> Boolean, predicateResultToRemove: Boolean): Boolean {\r\n if (this !is RandomAccess)\r\n return (this as MutableIterable<T>).filterInPlace(predicate, predicateResultToRemove)\r\n\r\n var writeIndex: Int = 0\r\n for (readIndex in 0..lastIndex) {\r\n val element = this[readIndex]\r\n if (predicate(element) == predicateResultToRemove)\r\n continue\r\n\r\n if (writeIndex != readIndex)\r\n this[writeIndex] = element\r\n\r\n writeIndex++\r\n }\r\n if (writeIndex < size) {\r\n for (removeIndex in lastIndex downTo writeIndex)\r\n removeAt(removeIndex)\r\n\r\n return true\r\n } else {\r\n return false\r\n }\r\n}\r\n\r\n/**\r\n * Removes all elements from this [MutableCollection] that are also contained in the given [elements] collection.\r\n */\r\npublic fun <T> MutableCollection<in T>.removeAll(elements: Iterable<T>): Boolean {\r\n return removeAll(elements.convertToSetForSetOperationWith(this))\r\n}\r\n\r\n/**\r\n * Removes all elements from this [MutableCollection] that are also contained in the given [elements] sequence.\r\n */\r\npublic fun <T> MutableCollection<in T>.removeAll(elements: Sequence<T>): Boolean {\r\n val set = elements.toHashSet()\r\n return set.isNotEmpty() && removeAll(set)\r\n}\r\n\r\n/**\r\n * Removes all elements

from this [MutableCollection] that are also contained in the given [elements] array.\r\n */\r\npublic fun <T> MutableCollection<in T>.removeAll(elements: Array<out T>): Boolean {\r\n   return elements.isNotEmpty() && removeAll(elements.toHashSet())\r\n}\r\n\r\n\r\n/**\r\n * Retains only elements of this [MutableCollection] that are contained in the given [elements] collection.\r\n */\r\npublic fun <T> MutableCollection<in T>.retainAll(elements: Iterable<T>): Boolean {\r\n   return retainAll(elements.convertToSetForSetOperationWith(this))\r\n}\r\n\r\n\r\n/**\r\n * Retains only elements of this [MutableCollection] that are contained in the given [elements] array.\r\n */\r\npublic fun <T> MutableCollection<in T>.retainAll(elements: Array<out T>): Boolean {\r\n   if (elements.isNotEmpty())\r\n   return retainAll(elements.toHashSet())\r\n   else\r\n   return retainNothing()\r\n}\r\n\r\n\r\n/**\r\n * Retains only elements of this [MutableCollection] that are contained in the given [elements] sequence.\r\n */\r\npublic fun <T> MutableCollection<in T>.retainAll(elements: Sequence<T>): Boolean {\r\n   val set = elements.toHashSet()\r\n   if (set.isNotEmpty())\r\n   return retainAll(set)\r\n   else\r\n   return retainNothing()\r\n}\r\n\r\n\r\nprivate fun MutableCollection<*>.retainNothing(): Boolean {\r\n   val result = isNotEmpty()\r\n   clear()\r\n   return result\r\n}\r\n\r\n\r\n/**\r\n * Randomly shuffles elements in this mutable list using the specified [random] instance as the source of randomness.\r\n *\r\n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic fun <T> MutableList<T>.shuffle(random: Random): Unit {\r\n   for (i in lastIndex downTo 1) {\r\n   val j = random.nextInt(i + 1)\r\n   val copy = this[i]\r\n   this[i] = this[j]\r\n   this[j] = copy\r\n   }\r\n}\r\n\r\n\r\n/**\r\n * Returns a new list with the elements of this list randomly shuffled\r\n * using the specified [random] instance as the source of randomness.\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic fun <T> Iterable<T>.shuffled(random: Random): List<T> = toMutableList().apply { shuffle(random) }\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"CollectionsKt\")\r\n\r\npackage kotlin.collections\r\n\r\nprivate open class ReversedListReadOnly<out T>(private val delegate: List<T>) : AbstractList<T>() {\r\n   override val size: Int get() = delegate.size\r\n   override fun get(index: Int): T = delegate[reverseElementIndex(index)]\r\n}\r\n\r\nprivate class ReversedList<T>(private val delegate: MutableList<T>) : AbstractMutableList<T>() {\r\n   override val size: Int get() = delegate.size\r\n   override fun get(index: Int): T = delegate[reverseElementIndex(index)]\r\n\r\n   override fun clear() = delegate.clear()\r\n   override fun removeAt(index: Int): T = delegate.removeAt(reverseElementIndex(index))\r\n\r\n   override fun set(index: Int, element: T): T = delegate.set(reverseElementIndex(index), element)\r\n   override fun add(index: Int, element: T) {\r\n   delegate.add(reversePositionIndex(index), element)\r\n   }\r\n}\r\n\r\nprivate fun List<*>.reverseElementIndex(index: Int) =\r\n   if (index in 0..lastIndex) lastIndex - index else throw IndexOutOfBoundsException(\"Element index $index must be in range [${0..lastIndex}].\")\r\n\r\nprivate fun List<*>.reversePositionIndex(index: Int) =\r\n   if (index in 0..size) size - index else throw IndexOutOfBoundsException(\"Position index $index must be in range [${0..size}].\")\r\n\r\n\r\n\r\n/**\r\n * Returns a reversed read-only view of the original List.\r\n * All changes made in the original list will be reflected in the reversed one.\r\n * @sample samples.collections.ReversedViews.asReversedList\r\n */\r\npublic fun <T> List<T>.asReversed(): List<T> = ReversedListReadOnly(this)\r\n\r\n\r\n/**\r\n * Returns a reversed mutable view of the original mutable List.\r\n * All changes made in the original list will be reflected in the reversed one and vice versa.\r\n * @sample samples.collections.ReversedViews.asReversedMutableList\r\n */\r\n@kotlin.jvm.JvmName(\"asReversedMutable\")\r\npublic fun <T> MutableList<T>.asReversed(): MutableList<T> = ReversedList(this)\r\n\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"SequencesKt\")\r\n@file:UseExperimental(ExperimentalTypeInference::class)\r\n\r\npackage kotlin.sequences\r\n\r\nimport kotlin.coroutines.*\r\nimport kotlin.coroutines.intrinsics.*\r\nimport kotlin.experimental.ExperimentalTypeInference\r\n\r\n\r\n/**\r\n * Builds a [Sequence] lazily yielding values one by one.\r\n *\r\n * @see kotlin.sequences.generateSequence\r\n *\r\n *

```
@sample samples.collections.Sequences.Building.buildSequenceYieldAll\r\n * @sample
samples.collections.Sequences.Building.buildFibonacciSequence\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic fun <T>
sequence(@BuilderInference block: suspend SequenceScope<T>.() -> Unit): Sequence<T> = Sequence {
iterator(block) }\r\n\r\n@SinceKotlin(\"1.3\")\r\n@Deprecated(\"Use 'sequence { }' function instead.\",
ReplaceWith(\"sequence(builderAction)\"), level =
DeprecationLevel.ERROR)\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T>
buildSequence(@BuilderInference noinline builderAction: suspend SequenceScope<T>.() -> Unit): Sequence<T> =
Sequence { iterator(builderAction) }\r\n\r\n/**\r\n * Builds an [Iterator] lazily yielding values one by one.\r\n *\r\n *
@sample samples.collections.Sequences.Building.buildIterator\r\n * @sample
samples.collections.Iterables.Building.iterable\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic fun <T>
iterator(@BuilderInference block: suspend SequenceScope<T>.() -> Unit): Iterator<T> {\r\n    val iterator =
SequenceBuilderIterator<T>()\r\n    iterator.nextStep = block.createCoroutineUnintercepted(receiver = iterator,
completion = iterator)\r\n    return iterator\r\n}\r\n\r\n@SinceKotlin(\"1.3\")\r\n@Deprecated(\"Use 'iterator { }'
function instead.\", ReplaceWith(\"iterator(builderAction)\"), level =
DeprecationLevel.ERROR)\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T>
buildIterator(@BuilderInference noinline builderAction: suspend SequenceScope<T>.() -> Unit): Iterator<T> =
iterator(builderAction)\r\n\r\n/**\r\n * The scope for yielding values of a [Sequence] or an [Iterator], provides
[yield] and [yieldAll] suspension functions.\r\n *\r\n * @see sequence\r\n * @see iterator\r\n *\r\n * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\r\n * @sample
samples.collections.Sequences.Building.buildFibonacciSequence\r\n
*/\r\n@RestrictsSuspension\r\n@SinceKotlin(\"1.3\")\r\npublic abstract class SequenceScope<in T> internal
constructor() {\r\n    /**\r\n     * Yields a value to the [Iterator] being built and suspends\r\n     * until the next value
is requested.\r\n     *\r\n     * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\r\n     *
@sample samples.collections.Sequences.Building.buildFibonacciSequence\r\n     */\r\n    public abstract suspend
fun yield(value: T)\r\n\r\n    /**\r\n     * Yields all values from the `iterator` to the [Iterator] being built\r\n     * and
suspends until all these values are iterated and the next one is requested.\r\n     *\r\n     * The sequence of values
returned by the given iterator can be potentially infinite.\r\n     *\r\n     * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\r\n     */\r\n    public abstract suspend fun
yieldAll(iterator: Iterator<T>)\r\n\r\n    /**\r\n     * Yields a collections of values to the [Iterator] being built\r\n     *
and suspends until all these values are iterated and the next one is requested.\r\n     *\r\n     * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\r\n     */\r\n    public suspend fun yieldAll(elements:
Iterable<T>) {\r\n        if (elements is Collection && elements.isEmpty()) return\r\n        return
yieldAll(elements.iterator())\r\n    }\r\n\r\n    /**\r\n     * Yields potentially infinite sequence of values  to the
[Iterator] being built\r\n     * and suspends until all these values are iterated and the next one is requested.\r\n     *\r\n
     * The sequence can be potentially infinite.\r\n     *\r\n     * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\r\n     */\r\n    public suspend fun
yieldAll(sequence: Sequence<T>) = yieldAll(sequence.iterator())\r\n}\r\n\r\n@Deprecated(\"Use SequenceScope
class instead.\", ReplaceWith(\"SequenceScope<T>\"), level = DeprecationLevel.ERROR)\r\npublic typealias
SequenceBuilder<T> = SequenceScope<T>\r\n\r\n\r\nprivate typealias State = Int\r\n\r\nprivate const val
State_NotReady: State = 0\r\nprivate const val State_ManyNotReady: State = 1\r\nprivate const val
State_ManyReady: State = 2\r\nprivate const val State_Ready: State = 3\r\nprivate const val State_Done: State =
4\r\nprivate const val State_Failed: State = 5\r\n\r\nprivate class SequenceBuilderIterator<T> :
SequenceScope<T>(), Iterator<T>, Continuation<Unit> {\r\n    private var state = State_NotReady\r\n    private var
nextValue: T? = null\r\n    private var nextIterator: Iterator<T>? = null\r\n    var nextStep: Continuation<Unit>? =
null\r\n\r\n    override fun hasNext(): Boolean {\r\n        while (true) {\r\n            when (state) {\r\n
State_NotReady -> {}\r\n                State_ManyNotReady ->\r\n                    if (nextIterator!!.hasNext()) {\r\n
            state = State_ManyReady\r\n                        return true\r\n                    } else {\r\n                        nextIterator
= null\r\n                    }\r\n                State_Done -> return false\r\n                State_Ready, State_ManyReady ->
```

return true\r\n else -> throw exceptionalState()\r\n }\r\n\r\n state = State_Failed\r\n val step = nextStep!!\r\n nextStep = null\r\n step.resume(Unit)\r\n }\r\n }\r\n\r\n override fun next(): T {\r\n when (state) {\r\n State_NotReady, State_ManyNotReady -> return nextNotReady()\r\n State_ManyReady -> {\r\n state = State_ManyNotReady\r\n return nextIterator!!.next()\r\n }\r\n State_Ready -> {\r\n state = State_NotReady\r\n @Suppress(\"UNCHECKED_CAST\")\r\n val result = nextValue as T\r\n nextValue = null\r\n return result\r\n }\r\n else -> throw exceptionalState()\r\n }\r\n }\r\n\r\n private fun nextNotReady(): T {\r\n if (!hasNext()) throw NoSuchElementException() else return next()\r\n }\r\n\r\n private fun exceptionalState(): Throwable = when (state) {\r\n State_Done -> NoSuchElementException()\r\n State_Failed -> IllegalStateException(\"Iterator has failed.\")\r\n else -> IllegalStateException(\"Unexpected state of the iterator: $state\")\r\n }\r\n\r\n\r\n override suspend fun yield(value: T) {\r\n nextValue = value\r\n state = State_Ready\r\n return suspendCoroutineUninterceptedOrReturn { c ->\r\n nextStep = c\r\n COROUTINE_SUSPENDED\r\n }\r\n }\r\n\r\n override suspend fun yieldAll(iterator: Iterator<T>) {\r\n if (!iterator.hasNext()) return\r\n nextIterator = iterator\r\n state = State_ManyReady\r\n return suspendCoroutineUninterceptedOrReturn { c ->\r\n nextStep = c\r\n COROUTINE_SUSPENDED\r\n }\r\n }\r\n\r\n // Completion continuation implementation\r\n override fun resumeWith(result: Result<Unit>) {\r\n result.getOrThrow() // just rethrow exception if it is there\r\n state = State_Done\r\n }\r\n\r\n override val context: CoroutineContext\r\n get() = EmptyCoroutineContext\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.collections\r\n\r\ninternal fun checkWindowSizeStep(size: Int, step: Int) {\r\n require(size > 0 && step > 0) {\r\n if (size != step)\r\n \"Both size $size and step $step must be greater than zero.\"\r\n else\r\n \"size $size must be greater than zero.\"\r\n }\r\n}\r\n\r\ninternal fun <T> Sequence<T>.windowedSequence(size: Int, step: Int, partialWindows: Boolean, reuseBuffer: Boolean): Sequence<List<T>> {\r\n checkWindowSizeStep(size, step)\r\n return Sequence { windowedIterator(iterator(), size, step, partialWindows, reuseBuffer) }\r\n}\r\n\r\ninternal fun <T> windowedIterator(iterator: Iterator<T>, size: Int, step: Int, partialWindows: Boolean, reuseBuffer: Boolean): Iterator<List<T>> {\r\n if (!iterator.hasNext()) return EmptyIterator\r\n return iterator<List<T>> {\r\n val gap = step - size\r\n if (gap >= 0) {\r\n var buffer = ArrayList<T>(size)\r\n var skip = 0\r\n for (e in iterator) {\r\n if (skip > 0) { skip -= 1; continue }\r\n buffer.add(e)\r\n if (buffer.size == size) {\r\n yield(buffer)\r\n if (reuseBuffer) buffer.clear() else buffer = ArrayList(size)\r\n skip = gap\r\n }\r\n }\r\n if (buffer.isNotEmpty()) {\r\n if (partialWindows || buffer.size == size) yield(buffer)\r\n }\r\n } else {\r\n val buffer = RingBuffer<T>(size)\r\n for (e in iterator) {\r\n buffer.add(e)\r\n if (buffer.isFull()) {\r\n yield(if (reuseBuffer) buffer else ArrayList(buffer))\r\n buffer.removeFirst(step)\r\n }\r\n }\r\n if (partialWindows) {\r\n while (buffer.size > step) {\r\n yield(if (reuseBuffer) buffer else ArrayList(buffer))\r\n buffer.removeFirst(step)\r\n }\r\n if (buffer.isNotEmpty()) yield(buffer)\r\n }\r\n }\r\n}\r\n\r\ninternal class MovingSubList<out E>(private val list: List<E>) : AbstractList<E>(), RandomAccess {\r\n private var fromIndex: Int = 0\r\n private var _size: Int = 0\r\n\r\n fun move(fromIndex: Int, toIndex: Int) {\r\n checkRangeIndexes(fromIndex, toIndex, list.size)\r\n this.fromIndex = fromIndex\r\n this._size = toIndex - fromIndex\r\n }\r\n\r\n override fun get(index: Int): E {\r\n checkElementIndex(index, _size)\r\n\r\n return list[fromIndex + index]\r\n }\r\n\r\n override val size: Int get() = _size\r\n}\r\n\r\n\r\n\r\n/**\r\n * Provides ring buffer implementation.\r\n *\r\n * Buffer overflow is not allowed so [add] doesn't overwrite tail but raises an exception.\r\n */\r\nprivate class RingBuffer<T>(val capacity: Int) : AbstractList<T>(), RandomAccess {\r\n init {\r\n require(capacity >= 0) { \"ring buffer capacity should not be negative but it is $capacity\" }\r\n }\r\n\r\n private val buffer = arrayOfNulls<Any?>(capacity)\r\n private var startIndex: Int = 0\r\n\r\n override var size: Int = 0\r\n private set\r\n\r\n override fun get(index: Int): T {\r\n checkElementIndex(index, size)\r\n @Suppress(\"UNCHECKED_CAST\")\r\n return

buffer[startIndex.forward(index)] as T\r\n   }\r\n\r\n   fun isFull() = size == capacity\r\n\r\n   override fun iterator(): Iterator<T> = object : AbstractIterator<T>() {\r\n   private var count = size\r\n   private var index = startIndex\r\n\r\n   override fun computeNext() {\r\n   if (count == 0) {\r\n   done()\r\n   } else {\r\n   @Suppress(\"UNCHECKED_CAST\")\r\n   setNext(buffer[index] as T)\r\n   index = index.forward(1)\r\n   count--\r\n   }\r\n   }\r\n   }\r\n\r\n   @Suppress(\"UNCHECKED_CAST\")\r\n   override fun <T> toArray(array: Array<T>): Array<T> {\r\n   val result: Array<T?> =\r\n   if (array.size < this.size) array.copyOf(this.size) else array as Array<T?>\r\n\r\n   val size = this.size\r\n\r\n   var widx = 0\r\n   var idx = startIndex\r\n\r\n   while (widx < size && idx < capacity) {\r\n   result[widx] = buffer[idx] as T\r\n   widx++\r\n   idx++\r\n   }\r\n\r\n   idx = 0\r\n   while (widx < size) {\r\n   result[widx] = buffer[idx] as T\r\n   widx++\r\n   idx++\r\n   }\r\n   if (result.size > this.size) result[this.size] = null\r\n\r\n   return result as Array<T>\r\n   }\r\n\r\n   override fun toArray(): Array<Any?> {\r\n   return toArray(arrayOfNulls(size))\r\n   }\r\n\r\n   /**\r\n   * Add [element] to the buffer or fail with [IllegalStateException] if no free space available in the buffer\r\n   */\r\n   fun add(element: T) {\r\n   if (isFull()) {\r\n   throw IllegalStateException(\"ring buffer is full\")\r\n   }\r\n\r\n   buffer[startIndex.forward(size)] = element\r\n   size++\r\n   }\r\n\r\n   /**\r\n   * Removes [n] first elements from the buffer or fails with [IllegalArgumentException] if not enough elements in the buffer to remove\r\n   */\r\n   fun removeFirst(n: Int) {\r\n   require(n >= 0) { \"n shouldn't be negative but it is $n\" }\r\n   require(n <= size) { \"n shouldn't be greater than the buffer size: n = $n, size = $size\" }\r\n\r\n   if (n > 0) {\r\n   val start = startIndex\r\n   val end = start.forward(n)\r\n\r\n   if (start > end) {\r\n   buffer.fill(null, start, capacity)\r\n   buffer.fill(null, 0, end)\r\n   } else {\r\n   buffer.fill(null, start, end)\r\n   }\r\n\r\n   startIndex = end\r\n   size -= n\r\n   }\r\n   }\r\n\r\n\r\n@Suppress(\"NOTHING_TO_INLINE\")\r\n   private inline fun Int.forward(n: Int): Int = (this + n) % capacity\r\n}\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.collections\r\n\r\n// UByteArray ==\r\n@ExperimentalUnsignedTypes\r\nprivate fun partition(\r\n   array: UByteArray, left: Int, right: Int): Int {\r\n   var i = left\r\n   var j = right\r\n   val pivot = array[(left + right) / 2]\r\n   while (i <= j) {\r\n   while (array[i] < pivot)\r\n   i++\r\n   while (array[j] > pivot)\r\n   j--\r\n   if (i <= j) {\r\n   val tmp = array[i]\r\n   array[i] = array[j]\r\n   array[j] = tmp\r\n   i++\r\n   j--\r\n   }\r\n   }\r\n   return i\r\n}\r\n\r\n@ExperimentalUnsignedTypes\r\nprivate fun quickSort(\r\n   array: UByteArray, left: Int, right: Int) {\r\n   val index = partition(array, left, right)\r\n   if (left < index - 1)\r\n   quickSort(array, left, index - 1)\r\n   if (index < right)\r\n   quickSort(array, index, right)\r\n}\r\n\r\n// UShortArray ==\r\n@ExperimentalUnsignedTypes\r\nprivate fun partition(\r\n   array: UShortArray, left: Int, right: Int): Int {\r\n   var i = left\r\n   var j = right\r\n   val pivot = array[(left + right) / 2]\r\n   while (i <= j) {\r\n   while (array[i] < pivot)\r\n   i++\r\n   while (array[j] > pivot)\r\n   j--\r\n   if (i <= j) {\r\n   val tmp = array[i]\r\n   array[i] = array[j]\r\n   array[j] = tmp\r\n   i++\r\n   j--\r\n   }\r\n   }\r\n   return i\r\n}\r\n\r\n@ExperimentalUnsignedTypes\r\nprivate fun quickSort(\r\n   array: UShortArray, left: Int, right: Int) {\r\n   val index = partition(array, left, right)\r\n   if (left < index - 1)\r\n   quickSort(array, left, index - 1)\r\n   if (index < right)\r\n   quickSort(array, index, right)\r\n}\r\n\r\n// UIntArray ==\r\n@ExperimentalUnsignedTypes\r\nprivate fun partition(\r\n   array: UIntArray, left: Int, right: Int): Int {\r\n   var i = left\r\n   var j = right\r\n   val pivot = array[(left + right) / 2]\r\n   while (i <= j) {\r\n   while (array[i] < pivot)\r\n   i++\r\n   while (array[j] > pivot)\r\n   j--\r\n   if (i <= j) {\r\n   val tmp = array[i]\r\n   array[i] = array[j]\r\n   array[j] = tmp\r\n   i++\r\n   j--\r\n   }\r\n   }\r\n   return i\r\n}\r\n\r\n@ExperimentalUnsignedTypes\r\nprivate fun quickSort(\r\n   array: UIntArray, left: Int, right: Int) {\r\n   val index = partition(array, left, right)\r\n   if (left < index - 1)\r\n   quickSort(array, left, index - 1)\r\n

```
 if (index < right)\r\n        quickSort(array, index, right)\r\n}\r\n\r\n// ULongArray
================================================================================\r\n@E
xperimentalUnsignedTypes\r\nprivate fun partition(\r\n    array: ULongArray, left: Int, right: Int): Int {\r\n    var i =
left\r\n    var j = right\r\n    val pivot = array[(left + right) / 2]\r\n    while (i <= j) {\r\n        while (array[i] <
pivot)\r\n            i++\r\n        while (array[j] > pivot)\r\n            j--\r\n        if (i <= j) {\r\n            val tmp =
array[i]\r\n            array[i] = array[j]\r\n            array[j] = tmp\r\n            i++\r\n            j--\r\n        }\r\n    }\r\n
return i\r\n}\r\n\r\n@ExperimentalUnsignedTypes\r\nprivate fun quickSort(\r\n    array: ULongArray, left: Int, right:
Int) {\r\n    val index = partition(array, left, right)\r\n    if (left < index - 1)\r\n        quickSort(array, left, index - 1)\r\n
 if (index < right)\r\n        quickSort(array, index, right)\r\n}\r\n\r\n\r\n// Interfaces
================================================================================\r\n/**\r
\n * Sorts the given array using qsort algorithm.\r\n */\r\n@ExperimentalUnsignedTypes\r\ninternal fun
sortArray(array: UByteArray)    = quickSort(array, 0, array.size - 1)\r\n@ExperimentalUnsignedTypes\r\ninternal
fun sortArray(array: UShortArray)   = quickSort(array, 0, array.size -
1)\r\n@ExperimentalUnsignedTypes\r\ninternal fun sortArray(array: UIntArray)     = quickSort(array, 0, array.size -
1)\r\n@ExperimentalUnsignedTypes\r\ninternal fun sortArray(array: ULongArray)    = quickSort(array, 0, array.size
- 1)","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n
*/\r\n\r\npackage kotlin.contracts\r\n\r\nimport kotlin.internal.ContractsDsl\r\nimport
kotlin.internal.InlineOnly\r\n\r\n/**\r\n * This marker distinguishes the experimental contract declaration API and is
used to opt-in for that feature\r\n * when declaring contracts of user functions.\r\n *\r\n * Any usage of a declaration
annotated with `@ExperimentalContracts` must be accepted either by\r\n * annotating that usage with the
[UseExperimental] annotation, e.g. `@UseExperimental(ExperimentalContracts::class)`,\r\n * or by using the
compiler argument `-Xuse-experimental=kotlin.contracts.ExperimentalContracts`.\r\n
*/\r\n@Retention(AnnotationRetention.BINARY)\r\n@SinceKotlin(\"1.3\")\r\n@Experimental\r\n@MustBeDocum
ented\r\npublic annotation class ExperimentalContracts\r\n\r\n/**\r\n * Provides a scope, where the functions of the
contract DSL, such as [returns], [callsInPlace], etc.,\r\n * can be used to describe the contract of a function.\r\n *\r\n
* This type is used as a receiver type of the lambda function passed to the [contract] function.\r\n *\r\n * @see
contract\r\n */\r\n@ContractsDsl\r\n@ExperimentalContracts\r\n@SinceKotlin(\"1.3\")\r\npublic interface
ContractBuilder {\r\n    /**\r\n     * Describes a situation when a function returns normally, without any exceptions
thrown.\r\n     *\r\n     * Use [SimpleEffect.implies] function to describe a conditional effect that happens in such
case.\r\n     *\r\n     */\r\n    // @sample samples.contracts.returnsContract\r\n    @ContractsDsl public fun returns():
Returns\r\n\r\n    /**\r\n     * Describes a situation when a function returns normally with the specified return
[value].\r\n     *\r\n     * The possible values of [value] are limited to `true`, `false` or `null`.\r\n     *\r\n     * Use
[SimpleEffect.implies] function to describe a conditional effect that happens in such case.\r\n     *\r\n     */\r\n    //
@sample samples.contracts.returnsTrueContract\r\n    // @sample samples.contracts.returnsFalseContract\r\n    //
@sample samples.contracts.returnsNullContract\r\n    @ContractsDsl public fun returns(value: Any?):
Returns\r\n\r\n    /**\r\n     * Describes a situation when a function returns normally with any value that is not
`null`.\r\n     *\r\n     * Use [SimpleEffect.implies] function to describe a conditional effect that happens in such
case.\r\n     *\r\n     */\r\n    // @sample samples.contracts.returnsNotNullContract\r\n    @ContractsDsl public fun
returnsNotNull(): ReturnsNotNull\r\n\r\n    /**\r\n     * Specifies that the function parameter [lambda] is invoked in
place.\r\n     *\r\n     * This contract specifies that:\r\n     * 1. the function [lambda] can only be invoked during the
call of the owner function,\r\n     *  and it won't be invoked after that owner function call is completed;\r\n     * 2.
_(optionally)_ the function [lambda] is invoked the amount of times specified by the [kind] parameter,\r\n     *  see
the [InvocationKind] enum for possible values.\r\n     *\r\n     * A function declaring the `callsInPlace` effect must
be _inline_.\r\n     *\r\n     */\r\n    /* @sample samples.contracts.callsInPlaceAtMostOnceContract\r\n     * @sample
samples.contracts.callsInPlaceAtLeastOnceContract\r\n     * @sample
samples.contracts.callsInPlaceExactlyOnceContract\r\n     * @sample
samples.contracts.callsInPlaceUnknownContract\r\n     */\r\n    @ContractsDsl public fun <R> callsInPlace(lambda:
```

Function<R>, kind: InvocationKind = InvocationKind.UNKNOWN): CallsInPlace\r\n}\r\n\r\n/**\r\n * Specifies how many times a function invokes its function parameter in place.\r\n *\r\n * See [ContractBuilder.callsInPlace] for the details of the call-in-place function contract.\r\n */\r\n@ContractsDsl\r\n@ExperimentalContracts\r\n@SinceKotlin(\"1.3\")\r\npublic enum class InvocationKind {\r\n /**\r\n * A function parameter will be invoked one time or not invoked at all.\r\n */\r\n // @sample samples.contracts.callsInPlaceAtMostOnceContract\r\n @ContractsDsl AT_MOST_ONCE,\r\n\r\n /**\r\n * A function parameter will be invoked one or more times.\r\n *\r\n */\r\n // @sample samples.contracts.callsInPlaceAtLeastOnceContract\r\n @ContractsDsl AT_LEAST_ONCE,\r\n\r\n /**\r\n * A function parameter will be invoked exactly one time.\r\n *\r\n */\r\n // @sample samples.contracts.callsInPlaceExactlyOnceContract\r\n @ContractsDsl EXACTLY_ONCE,\r\n\r\n /**\r\n * A function parameter is called in place, but it's unknown how many times it can be called.\r\n *\r\n */\r\n // @sample samples.contracts.callsInPlaceUnknownContract\r\n @ContractsDsl UNKNOWN\r\n}\r\n\r\n/**\r\n * Specifies the contract of a function.\r\n *\r\n * The contract description must be at the beginning of a function and have at least one effect.\r\n *\r\n * Only the top-level functions can have a contract for now.\r\n *\r\n * @param builder the lambda where the contract of a function is described with the help of the [ContractBuilder] members.\r\n *\r\n */\r\n/* @sample samples.contracts.returnsContract\r\n* @sample samples.contracts.returnsTrueContract\r\n* @sample samples.contracts.returnsFalseContract\r\n* @sample samples.contracts.returnsNullContract\r\n* @sample samples.contracts.returnsNotNullContract\r\n* @sample samples.contracts.callsInPlaceAtMostOnceContract\r\n* @sample samples.contracts.callsInPlaceAtLeastOnceContract\r\n* @sample samples.contracts.callsInPlaceExactlyOnceContract\r\n* @sample samples.contracts.callsInPlaceUnknownContract\r\n*/\r\n@ContractsDsl\r\n@ExperimentalContracts\r\n@InlineOnly\r\n@SinceKotlin(\"1.3\")\r\n@Suppress(\"UNUSED_PARAMETER\")\r\npublic inline fun contract(builder: ContractBuilder.() -> Unit) { }","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.coroutines\r\n\r\n/**\r\n * Marks coroutine context element that intercepts coroutine continuations.\r\n * The coroutines framework uses [ContinuationInterceptor.Key] to retrieve the interceptor and\r\n * intercepts all coroutine continuations with [interceptContinuation] invocations.\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic interface ContinuationInterceptor : CoroutineContext.Element {\r\n /**\r\n * The key that defines *the* context interceptor.\r\n */\r\n companion object Key : CoroutineContext.Key<ContinuationInterceptor>\r\n\r\n /**\r\n * Returns continuation that wraps the original [continuation], thus intercepting all resumptions.\r\n * This function is invoked by coroutines framework when needed and the resulting continuations are\r\n * cached internally per each instance of the original [continuation].\r\n *\r\n * This function may simply return original [continuation] if it does not want to intercept this particular continuation.\r\n *\r\n * When the original [continuation] completes, coroutine framework invokes [releaseInterceptedContinuation]\r\n * with the resulting continuation if it was intercepted, that is if `interceptContinuation` had previously\r\n * returned a different continuation instance.\r\n */\r\n public fun <T> interceptContinuation(continuation: Continuation<T>): Continuation<T>\r\n\r\n /**\r\n * Invoked for the continuation instance returned by [interceptContinuation] when the original\r\n * continuation completes and will not be used anymore. This function is invoked only if [interceptContinuation]\r\n * had returned a different continuation instance from the one it was invoked with.\r\n *\r\n * Default implementation does nothing.\r\n *\r\n * @param continuation Continuation instance returned by this interceptor's [interceptContinuation] invocation.\r\n */\r\n public fun releaseInterceptedContinuation(continuation: Continuation<*>) {\r\n /* do nothing by default */\r\n }\r\n\r\n // Performance optimization for a singleton Key\r\n public override operator fun <E : CoroutineContext.Element> get(key: CoroutineContext.Key<E>): E? =\r\n @Suppress(\"UNCHECKED_CAST\")\r\n if (key === Key) this as E else null\r\n\r\n // Performance optimization to a singleton Key\r\n public override fun minusKey(key: CoroutineContext.Key<*>): CoroutineContext =\r\n if (key === Key) EmptyCoroutineContext else this\r\n}\r\n","/*\r\n * Copyright 2010-

2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.coroutines\r\n\r\n/**\r\n * Persistent context for the coroutine. It is an indexed set of [Element] instances.\r\n * An indexed set is a mix between a set and a map.\r\n * Every element in this set has a unique [Key].\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic interface CoroutineContext {\r\n /**\r\n * Returns the element with the given [key] from this context or `null`.\r\n */\r\n public operator fun <E : Element> get(key: Key<E>): E?\r\n\r\n /**\r\n * Accumulates entries of this context starting with [initial] value and applying [operation]\r\n * from left to right to current accumulator value and each element of this context.\r\n */\r\n public fun <R> fold(initial: R, operation: (R, Element) -> R): R\r\n\r\n /**\r\n * Returns a context containing elements from this context and elements from other [context].\r\n * The elements from this context with the same key as in the other one are dropped.\r\n */\r\n public operator fun plus(context: CoroutineContext): CoroutineContext =\r\n if (context === EmptyCoroutineContext) this else // fast path -- avoid lambda creation\r\n context.fold(this) { acc, element ->\r\n val removed = acc.minusKey(element.key)\r\n if (removed === EmptyCoroutineContext) element else {\r\n // make sure interceptor is always last in the context (and thus is fast to get when present)\r\n val interceptor = removed[ContinuationInterceptor]\r\n if (interceptor == null) CombinedContext(removed, element) else {\r\n val left = removed.minusKey(ContinuationInterceptor)\r\n if (left === EmptyCoroutineContext) CombinedContext(element, interceptor) else\r\n CombinedContext(CombinedContext(left, element), interceptor)\r\n }\r\n }\r\n }\r\n\r\n /**\r\n * Returns a context containing elements from this context, but without an element with\r\n * the specified [key].\r\n */\r\n public fun minusKey(key: Key<*>): CoroutineContext\r\n\r\n /**\r\n * Key for the elements of [CoroutineContext]. [E] is a type of element with this key.\r\n */\r\n public interface Key<E : Element>\r\n\r\n /**\r\n * An element of the [CoroutineContext]. An element of the coroutine context is a singleton context by itself.\r\n */\r\n public interface Element : CoroutineContext {\r\n /**\r\n * A key of this coroutine context element.\r\n */\r\n public val key: Key<*>\r\n\r\n public override operator fun <E : Element> get(key: Key<E>): E? =\r\n @Suppress(\"UNCHECKED_CAST\")\r\n if (this.key == key) this as E else null\r\n\r\n public override fun <R> fold(initial: R, operation: (R, Element) -> R): R =\r\n operation(initial, this)\r\n\r\n public override fun minusKey(key: Key<*>): CoroutineContext =\r\n if (this.key == key) EmptyCoroutineContext else this\r\n }\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.coroutines\r\n\r\nimport kotlin.coroutines.CoroutineContext.*\r\nimport kotlin.io.Serializable\r\n\r\n/**\r\n * Base class for [CoroutineContext.Element] implementations.\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic abstract class AbstractCoroutineContextElement(public override val key: Key<*>) : Element\r\n\r\n/**\r\n * An empty coroutine context.\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic object EmptyCoroutineContext : CoroutineContext, Serializable {\r\n private const val serialVersionUID: Long = 0\r\n private fun readResolve(): Any = EmptyCoroutineContext\r\n\r\n public override fun <E : Element> get(key: Key<E>): E? = null\r\n public override fun <R> fold(initial: R, operation: (R, Element) -> R): R = initial\r\n public override fun plus(context: CoroutineContext): CoroutineContext = context\r\n public override fun minusKey(key: Key<*>): CoroutineContext = this\r\n public override fun hashCode(): Int = 0\r\n public override fun toString(): String = \"EmptyCoroutineContext\"\r\n}\r\n\r\n//---------- internal impl ----------\r\n\r\n// this class is not exposed, but is hidden inside implementations\r\n// this is a left-biased list, so that `plus` works naturally\r\n@SinceKotlin(\"1.3\")\r\ninternal class CombinedContext(\r\n private val left: CoroutineContext,\r\n private val element: Element\r\n) : CoroutineContext, Serializable {\r\n\r\n override fun <E : Element> get(key: Key<E>): E? {\r\n var cur = this\r\n while (true) {\r\n cur.element[key]?.let { return it }\r\n val next = cur.left\r\n if (next is CombinedContext) {\r\n cur = next\r\n } else {\r\n return next[key]\r\n }\r\n }\r\n }\r\n\r\n public override fun <R> fold(initial: R, operation: (R, Element) -> R): R =\r\n operation(left.fold(initial, operation), element)\r\n\r\n public override fun

minusKey(key: Key<*>): CoroutineContext {\r\n element[key]?.let { return left }\r\n val newLeft = left.minusKey(key)\r\n return when {\r\n newLeft === left -> this\r\n newLeft === EmptyCoroutineContext -> element\r\n else -> CombinedContext(newLeft, element)\r\n }\r\n }\r\n\r\n private fun size(): Int {\r\n var cur = this\r\n var size = 2\r\n while (true) {\r\n cur = cur.left as? CombinedContext ?: return size\r\n size++\r\n }\r\n }\r\n\r\n private fun contains(element: Element): Boolean =\r\n get(element.key) == element\r\n\r\n private fun containsAll(context: CombinedContext): Boolean {\r\n var cur = context\r\n while (true) {\r\n if (!contains(cur.element)) return false\r\n val next = cur.left\r\n if (next is CombinedContext) {\r\n cur = next\r\n } else {\r\n return contains(next as Element)\r\n }\r\n }\r\n }\r\n\r\n override fun equals(other: Any?): Boolean =\r\n this === other || other is CombinedContext && other.size() == size() && other.containsAll(this)\r\n\r\n override fun hashCode(): Int = left.hashCode() + element.hashCode()\r\n\r\n override fun toString(): String =\r\n \"[\" + fold(\"\") { acc, element ->\r\n if (acc.isEmpty()) element.toString() else \"$acc, $element\"\r\n } + \"]\"\r\n\r\n private fun writeReplace(): Any {\r\n val n = size()\r\n val elements = arrayOfNulls<CoroutineContext>(n)\r\n var index = 0\r\n fold(Unit) { _, element -> elements[index++] = element }\r\n check(index == n)\r\n @Suppress(\"UNCHECKED_CAST\")\r\n return Serialized(elements as Array<CoroutineContext>)\r\n }\r\n\r\n private class Serialized(val elements: Array<CoroutineContext>) : Serializable {\r\n companion object {\r\n private const val serialVersionUID: Long = 0L\r\n }\r\n\r\n private fun readResolve(): Any = elements.fold(EmptyCoroutineContext, CoroutineContext::plus)\r\n }\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmName(\"IntrinsicsKt\")\r\n@file:kotlin.jvm.JvmMultifileClass\r\n\r\npackage kotlin.coroutines.intrinsics\r\n\r\nimport kotlin.coroutines.*\r\nimport kotlin.internal.InlineOnly\r\n\r\n/**\r\n * Obtains the current continuation instance inside suspend functions and either suspends\r\n * currently running coroutine or returns result immediately without suspension.\r\n *\r\n * If the [block] returns the special [COROUTINE_SUSPENDED] value, it means that suspend function did suspend the execution and will\r\n * not return any result immediately. In this case, the [Continuation] provided to the [block] shall be\r\n * resumed by invoking [Continuation.resumeWith] at some moment in the\r\n * future when the result becomes available to resume the computation.\r\n *\r\n * Otherwise, the return value of the [block] must have a type assignable to [T] and represents the result of this suspend function.\r\n * It means that the execution was not suspended and the [Continuation] provided to the [block] shall not be invoked.\r\n * As the result type of the [block] is declared as `Any?` and cannot be correctly type-checked,\r\n * its proper return type remains on the conscience of the suspend function's author.\r\n *\r\n * Invocation of [Continuation.resumeWith] resumes coroutine directly in the invoker's thread without going through the\r\n * [ContinuationInterceptor] that might be present in the coroutine's [CoroutineContext].\r\n * It is the invoker's responsibility to ensure that a proper invocation context is established.\r\n * [Continuation.intercepted] can be used to acquire the intercepted continuation.\r\n *\r\n * Note that it is not recommended to call either [Continuation.resume] nor [Continuation.resumeWithException] functions synchronously\r\n * in the same stackframe where suspension function is run. Use [suspendCoroutine] as a safer way to obtain current\r\n * continuation instance.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@InlineOnly\r\n@Suppress(\"UNUSED_PARAMETER\", \"RedundantSuspendModifier\")\r\npublic suspend inline fun <T> suspendCoroutineUninterceptedOrReturn(crossinline block: (Continuation<T>) -> Any?): T =\r\n throw NotImplementedError(\"Implementation of suspendCoroutineUninterceptedOrReturn is intrinsic\")\r\n\r\n/**\r\n * This value is used as a return value of [suspendCoroutineUninterceptedOrReturn] `block` argument to state that\r\n * the execution was suspended and will not return any result immediately.\r\n *\r\n * **Note: this value should not be used in general code.** Using it outside of the context of\r\n * `suspendCoroutineUninterceptedOrReturn` function return value (including, but not limited to,\r\n * storing this value in other properties, returning it from other functions, etc)\r\n * can lead to unspecified behavior of the code.\r\n */\r\n// It is implemented as property with

getter to avoid ProGuard <clinit> problem with multifile IntrinsicsKt class\r\n@SinceKotlin(\"1.3\")\r\npublic val COROUTINE_SUSPENDED: Any get() = CoroutineSingletons.COROUTINE_SUSPENDED\r\n\r\n// Using enum here ensures two important properties:\r\n// 1. It makes SafeContinuation serializable with all kinds of serialization frameworks (since all of them natively support enums)\r\n// 2. It improves debugging experience, since you clearly see toString() value of those objects and what package they come from\r\n@SinceKotlin(\"1.3\")\r\n@PublishedApi // This class is Published API via serialized representation of SafeContinuation, don't rename/move\r\ninternal enum class CoroutineSingletons { COROUTINE_SUSPENDED, UNDECIDED, RESUMED }\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.experimental\r\n\r\n/** Performs a bitwise AND operation between the two values. */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline infix fun Byte.and(other: Byte): Byte = (this.toInt() and other.toInt()).toByte()\r\n\r\n/** Performs a bitwise OR operation between the two values. */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline infix fun Byte.or(other: Byte): Byte = (this.toInt() or other.toInt()).toByte()\r\n\r\n/** Performs a bitwise XOR operation between the two values. */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline infix fun Byte.xor(other: Byte): Byte = (this.toInt() xor other.toInt()).toByte()\r\n\r\n/** Inverts the bits in this value. */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Byte.inv(): Byte = (this.toInt().inv()).toByte()\r\n\r\n\r\n/** Performs a bitwise AND operation between the two values. */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline infix fun Short.and(other: Short): Short = (this.toInt() and other.toInt()).toShort()\r\n\r\n/** Performs a bitwise OR operation between the two values. */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline infix fun Short.or(other: Short): Short = (this.toInt() or other.toInt()).toShort()\r\n\r\n/** Performs a bitwise XOR operation between the two values. */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline infix fun Short.xor(other: Short): Short = (this.toInt() xor other.toInt()).toShort()\r\n\r\n/** Inverts the bits in this value. */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Short.inv(): Short = (this.toInt().inv()).toShort()\r\n\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.experimental\r\n\r\n/**\r\n * The experimental marker for type inference augmenting annotations.\r\n *\r\n * Any usage of a declaration annotated with `@ExperimentalTypeInference` must be accepted either by\r\n * annotating that usage with the [UseExperimental] annotation, e.g. `@UseExperimental(ExperimentalTypeInference::class)`,\r\n * or by using the compiler argument `-Xuse-experimental=kotlin.experimental.ExperimentalTypeInference`.\r\n */\r\n@Experimental(level = Experimental.Level.ERROR)\r\n@MustBeDocumented\r\n@Retention(AnnotationRetention.BINARY)\r\n@Target(AnnotationTarget.ANNOTATION_CLASS)\r\n@SinceKotlin(\"1.3\")\r\npublic annotation class ExperimentalTypeInference\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.internal\r\n\r\n/**\r\n * Specifies that the corresponding type should be ignored during type inference.\r\n */\r\n@Target(AnnotationTarget.TYPE)\r\n@Retention(AnnotationRetention.BINARY)\r\ninternal annotation class NoInfer\r\n\r\n/**\r\n * Specifies that the constraint built for the type during type inference should be an equality one.\r\n */\r\n@Target(AnnotationTarget.TYPE)\r\n@Retention(AnnotationRetention.BINARY)\r\ninternal annotation class Exact\r\n\r\n/**\r\n * Specifies that a corresponding member has the lowest priority in overload resolution.\r\n */\r\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)\r\n@Retention(AnnotationRetention.BINARY)\r\ninternal annotation class LowPriorityInOverloadResolution\r\n\r\n/**\r\n * Specifies that the corresponding member has the highest priority in overload resolution. Effectively this means that\r\n * an extension annotated with this annotation will win in overload resolution over a member with the same signature.\r\n */\r\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)\r\n@Retention(AnnotationRetention.BINARY)\r\ninternal annotation class

HidesMembers\r\n\r\n/**\r\n * The value of this type parameter should be mentioned in input types (argument types, receiver type or expected type).\r\n */\r\n@Target(AnnotationTarget.TYPE_PARAMETER)\r\n@Retention(AnnotationRetention.BINARY)\r\ninternal annotation class OnlyInputTypes\r\n\r\n/**\r\n * Specifies that this function should not be called directly without inlining\r\n */\r\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY, AnnotationTarget.PROPERTY_GETTER, AnnotationTarget.PROPERTY_SETTER)\r\n@Retention(AnnotationRetention.BINARY)\r\ninternal annotation class InlineOnly\r\n\r\n/**\r\n * Specifies that this declaration can have dynamic receiver type.\r\n */\r\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)\r\n@Retention(AnnotationRetention.BINARY)\r\ninternal annotation class DynamicExtension\r\n\r\n/**\r\n * The value of this parameter should be a property reference expression (`this::foo`), referencing a `lateinit` property,\r\n * the backing field of which is accessible at the point where the corresponding argument is passed.\r\n */\r\n@Target(AnnotationTarget.VALUE_PARAMETER)\r\n@Retention(AnnotationRetention.BINARY)\r\n@SinceKotlin(\"1.2\")\r\ninternal annotation class AccessibleLateinitPropertyLiteral\r\n\r\n/**\r\n * Specifies that this declaration is only completely supported since the specified version.\r\n *\r\n * The Kotlin compiler of an earlier version is going to report a diagnostic on usages of this declaration.\r\n * The diagnostic message can be specified with [message], or via [errorCode] (takes less space, but might not be immediately clear\r\n * to the user). The diagnostic severity can be specified with [level]: WARNING/ERROR mean that either a warning or an error\r\n * is going to be reported, HIDDEN means that the declaration is going to be removed from resolution completely.\r\n *\r\n * [versionKind] specifies which version should be compared with the [version] value, when compiling the usage of the annotated declaration.\r\n * Note that prior to 1.2, only [RequireKotlinVersionKind.LANGUAGE_VERSION] was supported, so the Kotlin compiler before 1.2 is going to\r\n * treat any [RequireKotlin] as if it requires the language version. Since 1.2, the Kotlin compiler supports\r\n * [RequireKotlinVersionKind.LANGUAGE_VERSION], [RequireKotlinVersionKind.COMPILER_VERSION] and [RequireKotlinVersionKind.API_VERSION].\r\n * If the actual value of [versionKind] is something different (e.g. a new version kind, added in future versions of Kotlin),\r\n * Kotlin 1.2 is going to ignore this [RequireKotlin] altogether, where as Kotlin before 1.2 is going to treat this as a requirement\r\n * on the language version.\r\n *\r\n * This annotation is erased at compile time; its arguments are stored in a more compact form in the Kotlin metadata.\r\n */\r\n@Target(AnnotationTarget.CLASS, AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY, AnnotationTarget.CONSTRUCTOR, AnnotationTarget.TYPEALIAS)\r\n@Retention(AnnotationRetention.SOURCE)\r\n@Repeatable\r\n@SinceKotlin(\"1.2\")\r\ninternal annotation class RequireKotlin(\r\n   val version: String,\r\n   val message: String = \"\",\r\n   val level: DeprecationLevel = DeprecationLevel.ERROR,\r\n   val versionKind: RequireKotlinVersionKind = RequireKotlinVersionKind.LANGUAGE_VERSION,\r\n   val errorCode: Int = -1\r\n)\r\n\r\n/**\r\n * The kind of the version that is required by [RequireKotlin].\r\n */\r\n@SinceKotlin(\"1.2\")\r\ninternal enum class RequireKotlinVersionKind {\r\n   LANGUAGE_VERSION,\r\n   COMPILER_VERSION,\r\n   API_VERSION,\r\n}\r\n\r\n/**\r\n * Specifies that this declaration is a part of special DSL, used for constructing function's contract.\r\n */\r\n@Retention(AnnotationRetention.BINARY)\r\n@SinceKotlin(\"1.2\")\r\ninternal annotation class ContractsDsl\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.properties\r\n\r\nimport kotlin.reflect.KProperty\r\n\r\n/**\r\n * Standard property delegates.\r\n */\r\npublic object Delegates {\r\n   /**\r\n   * Returns a property delegate for a read/write property with a non-`null` value that is initialized not during\r\n   * object construction time but at a later time. Trying to read the property before the initial value has been\r\n   * assigned results in an exception.\r\n   *\r\n   * @sample samples.properties.Delegates.notNullDelegate\r\n   */\r\n   public fun <T : Any> notNull(): ReadWriteProperty<Any?, T> = NotNullVar()\r\n\r\n   /**\r\n   * Returns a property delegate for a read/write property that calls a specified callback function when changed.\r\n   * @param initialValue the initial value of the

property.\r\n * @param onChange the callback which is called after the change of the property is made. The value of the property\r\n * has already been changed when this callback is invoked.\r\n *\r\n * @sample samples.properties.Delegates.observableDelegate\r\n */\r\n public inline fun <T> observable(initialValue: T, crossinline onChange: (property: KProperty<*>, oldValue: T, newValue: T) -> Unit):\r\n ReadWriteProperty<Any?, T> =\r\n object : ObservableProperty<T>(initialValue) {\r\n override fun afterChange(property: KProperty<*>, oldValue: T, newValue: T) = onChange(property, oldValue, newValue)\r\n }\r\n\r\n /**\r\n * Returns a property delegate for a read/write property that calls a specified callback function when changed,\r\n * allowing the callback to veto the modification.\r\n * @param initialValue the initial value of the property.\r\n * @param onChange the callback which is called before a change to the property value is attempted.\r\n * The value of the property hasn't been changed yet, when this callback is invoked.\r\n * If the callback returns `true` the value of the property is being set to the new value,\r\n * and if the callback returns `false` the new value is discarded and the property remains its old value.\r\n *\r\n * @sample samples.properties.Delegates.vetoableDelegate\r\n * @sample samples.properties.Delegates.throwVetoableDelegate\r\n */\r\n public inline fun <T> vetoable(initialValue: T, crossinline onChange: (property: KProperty<*>, oldValue: T, newValue: T) -> Boolean):\r\n ReadWriteProperty<Any?, T> =\r\n object : ObservableProperty<T>(initialValue) {\r\n override fun beforeChange(property: KProperty<*>, oldValue: T, newValue: T): Boolean = onChange(property, oldValue, newValue)\r\n }\r\n\r\n}\r\n\r\n\r\nprivate class NotNullVar<T : Any>() : ReadWriteProperty<Any?, T> {\r\n private var value: T? = null\r\n\r\n public override fun getValue(thisRef: Any?, property: KProperty<*>): T {\r\n return value ?: throw IllegalStateException(\"Property ${property.name} should be initialized before get.\")\r\n }\r\n\r\n public override fun setValue(thisRef: Any?, property: KProperty<*>, value: T) {\r\n this.value = value\r\n }\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.properties\r\n\r\nimport kotlin.reflect.KProperty\r\n\r\n/**\r\n * Implements the core logic of a property delegate for a read/write property that calls callback functions when changed.\r\n * @param initialValue the initial value of the property.\r\n */\r\npublic abstract class ObservableProperty<T>(initialValue: T) : ReadWriteProperty<Any?, T> {\r\n private var value = initialValue\r\n\r\n /**\r\n * The callback which is called before a change to the property value is attempted.\r\n * The value of the property hasn't been changed yet, when this callback is invoked.\r\n * If the callback returns `true` the value of the property is being set to the new value,\r\n * and if the callback returns `false` the new value is discarded and the property remains its old value.\r\n */\r\n protected open fun beforeChange(property: KProperty<*>, oldValue: T, newValue: T): Boolean = true\r\n\r\n /**\r\n * The callback which is called after the change of the property is made. The value of the property\r\n * has already been changed when this callback is invoked.\r\n */\r\n protected open fun afterChange(property: KProperty<*>, oldValue: T, newValue: T): Unit {}\r\n\r\n public override fun getValue(thisRef: Any?, property: KProperty<*>): T {\r\n return value\r\n }\r\n\r\n public override fun setValue(thisRef: Any?, property: KProperty<*>, value: T) {\r\n val oldValue = this.value\r\n if (!beforeChange(property, oldValue, value)) {\r\n return\r\n }\r\n this.value = value\r\n afterChange(property, oldValue, value)\r\n }\r\n}","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.random\r\n\r\nimport kotlin.math.nextDown\r\n\r\n/**\r\n * An abstract class that is implemented by random number generator algorithms.\r\n *\r\n * The companion object [Random.Default] is the default instance of [Random].\r\n *\r\n * To get a seeded instance of random generator use [Random] function.\r\n *\r\n * @sample samples.random.Randoms.defaultRandom\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic abstract class Random {\r\n\r\n /**\r\n * Gets the next random [bitCount] number of bits.\r\n *\r\n * Generates an `Int` whose lower [bitCount] bits are filled with random values and the remaining upper bits are zero.\r\n *\r\n * @param bitCount number of bits to generate, must be in range 0..32, otherwise the behavior is unspecified.\r\n */\r\n public abstract fun nextBits(bitCount: Int): Int\r\n\r\n /**\r\n * Gets the next random `Int` from the random

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number generator.\r\n     *\r\n     * Generates an `Int` random value uniformly distributed between `Int.MIN_VALUE` and `Int.MAX_VALUE` (inclusive).\r\n     */\r\n    public open fun nextInt(): Int = nextBits(32)\r\n\r\n    /**\r\n     * Gets the next random non-negative `Int` from the random number generator less than the specified [until] bound.\r\n     *\r\n     * Generates an `Int` random value uniformly distributed between `0` (inclusive) and the specified [until] bound (exclusive).\r\n     *\r\n     * @param until must be positive.\r\n     *\r\n     * @throws IllegalArgumentException if [until] is negative or zero.\r\n     */\r\n    public open fun nextInt(until: Int): Int = nextInt(0, until)\r\n\r\n    /**\r\n     * Gets the next random `Int` from the random number generator in the specified range.\r\n     *\r\n     * Generates an `Int` random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\r\n     *\r\n     * @throws IllegalArgumentException if [from] is greater than or equal to [until].\r\n     */\r\n    public open fun nextInt(from: Int, until: Int): Int {\r\n        checkRangeBounds(from, until)\r\n        val n = until - from\r\n        if (n > 0 || n == Int.MIN_VALUE) {\r\n            val rnd = if (n and -n == n) {\r\n                val bitCount = fastLog2(n)\r\n                nextBits(bitCount)\r\n            } else {\r\n                var v: Int\r\n                do {\r\n                    val bits = nextInt().ushr(1)\r\n                    v = bits % n\r\n                } while (bits - v + (n - 1) < 0)\r\n                v\r\n            }\r\n            return from + rnd\r\n        } else {\r\n            while (true) {\r\n                val rnd = nextInt()\r\n                if (rnd in from until until) return rnd\r\n            }\r\n        }\r\n    }\r\n\r\n    /**\r\n     * Gets the next random `Long` from the random number generator.\r\n     *\r\n     * Generates a `Long` random value uniformly distributed between `Long.MIN_VALUE` and `Long.MAX_VALUE` (inclusive).\r\n     */\r\n    public open fun nextLong(): Long = nextInt().toLong().shl(32) + nextInt()\r\n\r\n    /**\r\n     * Gets the next random non-negative `Long` from the random number generator less than the specified [until] bound.\r\n     *\r\n     * Generates a `Long` random value uniformly distributed between `0` (inclusive) and the specified [until] bound (exclusive).\r\n     *\r\n     * @param until must be positive.\r\n     *\r\n     * @throws IllegalArgumentException if [until] is negative or zero.\r\n     */\r\n    public open fun nextLong(until: Long): Long = nextLong(0, until)\r\n\r\n    /**\r\n     * Gets the next random `Long` from the random number generator in the specified range.\r\n     *\r\n     * Generates a `Long` random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\r\n     *\r\n     * @throws IllegalArgumentException if [from] is greater than or equal to [until].\r\n     */\r\n    public open fun nextLong(from: Long, until: Long): Long {\r\n        checkRangeBounds(from, until)\r\n        val n = until - from\r\n        if (n > 0) {\r\n            val rnd: Long\r\n            if (n and -n == n) {\r\n                val nLow = n.toInt()\r\n                val nHigh = (n ushr 32).toInt()\r\n                rnd = when {\r\n                    nLow != 0 -> {\r\n                        val bitCount = fastLog2(nLow)\r\n                        // toUInt().toLong()\r\n                        nextBits(bitCount).toLong() and 0xFFFF_FFFF\r\n                    }\r\n                    nHigh == 1 ->\r\n                        // toUInt().toLong()\r\n                        nextInt().toLong() and 0xFFFF_FFFF\r\n                    else -> {\r\n                        val bitCount = fastLog2(nHigh)\r\n                        nextBits(bitCount).toLong().shl(32) + nextInt()\r\n                    }\r\n                }\r\n            } else {\r\n                var v: Long\r\n                do {\r\n                    val bits = nextLong().ushr(1)\r\n                    v = bits % n\r\n                } while (bits - v + (n - 1) < 0)\r\n                rnd = v\r\n            }\r\n            return from + rnd\r\n        } else {\r\n            while (true) {\r\n                val rnd = nextLong()\r\n                if (rnd in from until until) return rnd\r\n            }\r\n        }\r\n    }\r\n\r\n    /**\r\n     * Gets the next random [Boolean] value.\r\n     */\r\n    public open fun nextBoolean(): Boolean = nextBits(1) != 0\r\n\r\n    /**\r\n     * Gets the next random [Double] value uniformly distributed between 0 (inclusive) and 1 (exclusive).\r\n     */\r\n    public open fun nextDouble(): Double = doubleFromParts(nextBits(26), nextBits(27))\r\n\r\n    /**\r\n     * Gets the next random non-negative `Double` from the random number generator less than the specified [until] bound.\r\n     *\r\n     * Generates a `Double` random value uniformly distributed between 0 (inclusive) and [until] (exclusive).\r\n     *\r\n     * @throws IllegalArgumentException if [until] is negative or zero.\r\n     */\r\n    public open fun nextDouble(until: Double): Double = nextDouble(0.0, until)\r\n\r\n    /**\r\n     * Gets the next random `Double` from the random number generator in the specified range.\r\n     *\r\n     * Generates a `Double` random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\r\n     *\r\n     * [from] and [until] must be finite otherwise the behavior is unspecified.\r\n     *\r\n     * @throws IllegalArgumentException if [from] is greater than or equal to [until].\r\n     */\r\n    public open fun nextDouble(from: Double, until: Double): Double {\r\n
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checkRangeBounds(from, until)\r\n val size = until - from\r\n val r = if (size.isInfinite() && from.isFinite() && until.isFinite()) {\r\n val r1 = nextDouble() * (until / 2 - from / 2)\r\n from + r1 + r1\r\n } else {\r\n from + nextDouble() * size\r\n }\r\n return if (r >= until) until.nextDown() else r\r\n }\r\n\r\n /**\r\n * Gets the next random [Float] value uniformly distributed between 0 (inclusive) and 1 (exclusive).\r\n */\r\n public open fun nextFloat(): Float = nextBits(24) / (1 shl 24).toFloat()\r\n\r\n /**\r\n * Fills a subrange of the specified byte [array] starting from [fromIndex] inclusive and ending [toIndex] exclusive\r\n * with random bytes.\r\n *\r\n * @return [array] with the subrange filled with random bytes.\r\n */\r\n public open fun nextBytes(array: ByteArray, fromIndex: Int = 0, toIndex: Int = array.size): ByteArray {\r\n require(fromIndex in 0..array.size && toIndex in 0..array.size) { \"fromIndex ($fromIndex) or toIndex ($toIndex) are out of range: 0..${array.size}.\" }\r\n require(fromIndex <= toIndex) { \"fromIndex ($fromIndex) must be not greater than toIndex ($toIndex).\" }\r\n\r\n val steps = (toIndex - fromIndex) / 4\r\n\r\n var position = fromIndex\r\n repeat(steps) {\r\n val v = nextInt()\r\n array[position] = v.toByte()\r\n array[position + 1] = v.ushr(8).toByte()\r\n array[position + 2] = v.ushr(16).toByte()\r\n array[position + 3] = v.ushr(24).toByte()\r\n position += 4\r\n }\r\n\r\n val remainder = toIndex - position\r\n val vr = nextBits(remainder * 8)\r\n for (i in 0 until remainder) {\r\n array[position + i] = vr.ushr(i * 8).toByte()\r\n }\r\n\r\n return array\r\n }\r\n\r\n /**\r\n * Fills the specified byte [array] with random bytes and returns it.\r\n *\r\n * @return [array] filled with random bytes.\r\n */\r\n public open fun nextBytes(array: ByteArray): ByteArray = nextBytes(array, 0, array.size)\r\n\r\n /**\r\n * Creates a byte array of the specified [size], filled with random bytes.\r\n */\r\n public open fun nextBytes(size: Int): ByteArray = nextBytes(ByteArray(size))\r\n\r\n\r\n /**\r\n * The default random number generator.\r\n *\r\n * On JVM this generator is thread-safe, its methods can be invoked from multiple threads.\r\n *\r\n * @sample samples.random.Randoms.defaultRandom\r\n */\r\n companion object Default : Random() {\r\n\r\n private val defaultRandom: Random = defaultPlatformRandom()\r\n\r\n override fun nextBits(bitCount: Int): Int = defaultRandom.nextBits(bitCount)\r\n override fun nextInt(): Int = defaultRandom.nextInt()\r\n override fun nextInt(until: Int): Int = defaultRandom.nextInt(until)\r\n override fun nextInt(from: Int, until: Int): Int = defaultRandom.nextInt(from, until)\r\n\r\n override fun nextLong(): Long = defaultRandom.nextLong()\r\n override fun nextLong(until: Long): Long = defaultRandom.nextLong(until)\r\n override fun nextLong(from: Long, until: Long): Long = defaultRandom.nextLong(from, until)\r\n\r\n override fun nextBoolean(): Boolean = defaultRandom.nextBoolean()\r\n\r\n override fun nextDouble(): Double = defaultRandom.nextDouble()\r\n override fun nextDouble(until: Double): Double = defaultRandom.nextDouble(until)\r\n override fun nextDouble(from: Double, until: Double): Double = defaultRandom.nextDouble(from, until)\r\n\r\n override fun nextFloat(): Float = defaultRandom.nextFloat()\r\n\r\n override fun nextBytes(array: ByteArray): ByteArray = defaultRandom.nextBytes(array)\r\n override fun nextBytes(size: Int): ByteArray = defaultRandom.nextBytes(size)\r\n override fun nextBytes(array: ByteArray, fromIndex: Int, toIndex: Int): ByteArray = defaultRandom.nextBytes(array, fromIndex, toIndex)\r\n\r\n @Deprecated(\"Use Default companion object instead\", level = DeprecationLevel.HIDDEN)\r\n @Suppress(\"DEPRECATION_ERROR\")\r\n @kotlin.jvm.JvmField\r\n public val Companion: Random.Companion = Random.Companion\r\n }\r\n\r\n @Deprecated(\"Use Default companion object instead\", level = DeprecationLevel.HIDDEN)\r\n public object Companion : Random() {\r\n override fun nextBits(bitCount: Int): Int = Default.nextBits(bitCount)\r\n }\r\n}\r\n\r\n/**\r\n * Returns a repeatable random number generator seeded with the given [seed] `Int` value.\r\n *\r\n * Two generators with the same seed produce the same sequence of values within the same version of Kotlin runtime.\r\n *\r\n * *Note:* Future versions of Kotlin may change the algorithm of this seeded number generator so that it will return\r\n * a sequence of values different from the current one for a given seed.\r\n *\r\n * @sample samples.random.Randoms.seededRandom\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic fun Random(seed: Int): Random = XorWowRandom(seed, seed.shr(31))\r\n\r\n/**\r\n * Returns a repeatable random number generator seeded with the given [seed] `Long` value.\r\n *\r\n * Two generators with the same seed produce the same sequence of values within the same version of Kotlin runtime.\r\n *\r\n * *Note:* Future versions of Kotlin may change the algorithm of this seeded number

generator so that it will return\r\n * a sequence of values different from the current one for a given seed.\r\n *\r\n * @sample samples.random.Randoms.seededRandom\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic fun Random(seed: Long): Random = XorWowRandom(seed.toInt(), seed.shr(32).toInt())\r\n\r\n\r\n\r\n/**\r\n * Gets the next random `Int` from the random number generator in the specified [range].\r\n *\r\n * Generates an `Int` random value uniformly distributed in the specified [range]:\r\n * from `range.start` inclusive to `range.endInclusive` inclusive.\r\n *\r\n * @throws IllegalArgumentException if [range] is empty.\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic fun Random.nextInt(range: IntRange): Int = when {\r\n   range.isEmpty() -> throw IllegalArgumentException(\"Cannot get random in empty range: $range\")\r\n   range.last < Int.MAX_VALUE -> nextInt(range.first, range.last + 1)\r\n   range.first > Int.MIN_VALUE -> nextInt(range.first - 1, range.last) + 1\r\n   else -> nextInt()\r\n}\r\n\r\n\r\n/**\r\n * Gets the next random `Long` from the random number generator in the specified [range].\r\n *\r\n * Generates a `Long` random value uniformly distributed in the specified [range]:\r\n * from `range.start` inclusive to `range.endInclusive` inclusive.\r\n *\r\n * @throws IllegalArgumentException if [range] is empty.\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic fun Random.nextLong(range: LongRange): Long = when {\r\n   range.isEmpty() -> throw IllegalArgumentException(\"Cannot get random in empty range: $range\")\r\n   range.last < Long.MAX_VALUE -> nextLong(range.start, range.endInclusive + 1)\r\n   range.start > Long.MIN_VALUE -> nextLong(range.start - 1, range.endInclusive) + 1\r\n   else -> nextLong()\r\n}\r\n\r\n\r\n\r\ninternal expect fun defaultPlatformRandom(): Random\r\ninternal expect fun doubleFromParts(hi26: Int, low27: Int): Double\r\n\r\n@UseExperimental(ExperimentalStdlibApi::class)\r\ninternal fun fastLog2(value: Int): Int = 31 - value.countLeadingZeroBits()\r\n\r\n/** Takes upper [bitCount] bits (0..32) from this number. */\r\ninternal fun Int.takeUpperBits(bitCount: Int): Int =\r\n   this.ushr(32 - bitCount) and (-bitCount).shr(31)\r\n\r\ninternal fun checkRangeBounds(from: Int, until: Int) = require(until > from) { boundsErrorMessage(from, until) }\r\ninternal fun checkRangeBounds(from: Long, until: Long) = require(until > from) { boundsErrorMessage(from, until) }\r\ninternal fun checkRangeBounds(from: Double, until: Double) = require(until > from) { boundsErrorMessage(from, until) }\r\n\r\ninternal fun boundsErrorMessage(from: Any, until: Any) = \"Random range is empty: [$from, $until).\"\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.random\r\n\r\n\r\n/**\r\n * Gets the next random [UInt] from the random number generator.\r\n *\r\n * Generates a [UInt] random value uniformly distributed between [UInt.MIN_VALUE] and [UInt.MAX_VALUE] (inclusive).\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun Random.nextUInt(): UInt = nextInt().toUInt()\r\n\r\n/**\r\n * Gets the next random [UInt] from the random number generator less than the specified [until] bound.\r\n *\r\n * Generates a [UInt] random value uniformly distributed between `0` (inclusive) and the specified [until] bound (exclusive).\r\n *\r\n * @throws IllegalArgumentException if [until] is zero.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun Random.nextUInt(until: UInt): UInt = nextUInt(0u, until)\r\n\r\n/**\r\n * Gets the next random [UInt] from the random number generator in the specified range.\r\n *\r\n * Generates a [UInt] random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\r\n *\r\n * @throws IllegalArgumentException if [from] is greater than or equal to [until].\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun Random.nextUInt(from: UInt, until: UInt): UInt {\r\n   checkUIntRangeBounds(from, until)\r\n\r\n   val signedFrom = from.toInt() xor Int.MIN_VALUE\r\n   val signedUntil = until.toInt() xor Int.MIN_VALUE\r\n\r\n   val signedResult = nextInt(signedFrom, signedUntil) xor Int.MIN_VALUE\r\n   return signedResult.toUInt()\r\n}\r\n\r\n\r\n/**\r\n * Gets the next random [UInt] from the random number generator in the specified [range].\r\n *\r\n * Generates a [UInt] random value uniformly distributed in the specified [range]:\r\n * from `range.start` inclusive to `range.endInclusive` inclusive.\r\n *\r\n * @throws IllegalArgumentException if [range] is empty.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun Random.nextUInt(range: UIntRange): UInt = when {\r\n   range.isEmpty() -> throw IllegalArgumentException(\"Cannot get random in empty range: $range\")\r\n   range.last < UInt.MAX_VALUE -> nextUInt(range.first, range.last + 1u)\r\n   range.first > UInt.MIN_VALUE -> nextUInt(range.first - 1u, range.last) + 1u\r\n   else -> nextUInt()\r\n}\r\n\r\n\r\n/**\r\n * Gets

the next random [ULong] from the random number generator.\r\n *\r\n * Generates a [ULong] random value uniformly distributed between [ULong.MIN_VALUE] and [ULong.MAX_VALUE] (inclusive).\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun Random.nextULong(): ULong = nextLong().toULong()\r\n\r\n/**\r\n * Gets the next random [ULong] from the random number generator less than the specified [until] bound.\r\n *\r\n * Generates a [ULong] random value uniformly distributed between `0` (inclusive) and the specified [until] bound (exclusive).\r\n *\r\n * @throws IllegalArgumentException if [until] is zero.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun Random.nextULong(until: ULong): ULong = nextULong(0uL, until)\r\n\r\n/**\r\n * Gets the next random [ULong] from the random number generator in the specified range.\r\n *\r\n * Generates a [ULong] random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\r\n *\r\n * @throws IllegalArgumentException if [from] is greater than or equal to [until].\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun Random.nextULong(from: ULong, until: ULong): ULong {\r\n checkULongRangeBounds(from, until)\r\n\r\n val signedFrom = from.toLong() xor Long.MIN_VALUE\r\n val signedUntil = until.toLong() xor Long.MIN_VALUE\r\n\r\n val signedResult = nextLong(signedFrom, signedUntil) xor Long.MIN_VALUE\r\n return signedResult.toULong()\r\n}\r\n\r\n/**\r\n * Gets the next random [ULong] from the random number generator in the specified [range].\r\n *\r\n * Generates a [ULong] random value uniformly distributed in the specified [range]:\r\n * from `range.start` inclusive to `range.endInclusive` inclusive.\r\n *\r\n * @throws IllegalArgumentException if [range] is empty.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun Random.nextULong(range: ULongRange): ULong = when {\r\n range.isEmpty() -> throw IllegalArgumentException(\"Cannot get random in empty range: $range\")\r\n range.last < ULong.MAX_VALUE -> nextULong(range.first, range.last + 1u)\r\n range.first > ULong.MIN_VALUE -> nextULong(range.first - 1u, range.last) + 1u\r\n else -> nextULong()\r\n}\r\n\r\n/**\r\n * Fills the specified unsigned byte [array] with random bytes and returns it.\r\n *\r\n * @return [array] filled with random bytes.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun Random.nextUBytes(array: UByteArray): UByteArray {\r\n nextBytes(array.asByteArray())\r\n return array\r\n}\r\n\r\n/**\r\n * Creates an unsigned byte array of the specified [size], filled with random bytes.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun Random.nextUBytes(size: Int): UByteArray = nextBytes(size).asUByteArray()\r\n\r\n/**\r\n * Fills a subrange of the specified `UByte` [array] starting from [fromIndex] inclusive and ending [toIndex] exclusive with random UBytes.\r\n *\r\n * @return [array] with the subrange filled with random bytes.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun Random.nextUBytes(array: UByteArray, fromIndex: Int = 0, toIndex: Int = array.size): UByteArray {\r\n nextBytes(array.asByteArray(), fromIndex, toIndex)\r\n return array\r\n}\r\n\r\n\r\n@ExperimentalUnsignedTypes\r\ninternal fun checkUIntRangeBounds(from: UInt, until: UInt) = require(until > from) { boundsErrorMessage(from, until) }\r\n@ExperimentalUnsignedTypes\r\ninternal fun checkULongRangeBounds(from: ULong, until: ULong) = require(until > from) { boundsErrorMessage(from, until) }\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.random\r\n\r\n/**\r\n * Random number generator, algorithm \"xorwow\" from p. 5 of Marsaglia, \"Xorshift RNGs\".\r\n *\r\n * Cycles after 2^160 * (2^32-1) repetitions.\r\n *\r\n * See http://www.jstatsoft.org/v08/i14/paper for details.\r\n */\r\ninternal class XorWowRandom\r\ninternal constructor(\r\n private var x: Int,\r\n private var y: Int,\r\n private var z: Int,\r\n private var w: Int,\r\n private var v: Int,\r\n private var addend: Int\r\n) : Random() {\r\n\r\n internal constructor(seed1: Int, seed2: Int) :\r\n this(seed1, seed2, 0, 0, seed1.inv(), (seed1 shl 10) xor (seed2 ushr 4))\r\n\r\n init {\r\n require((x or y or z or w or v) != 0) { \"Initial state must have at least one non-zero element.\" }\r\n\r\n // some trivial seeds can produce several values with zeroes in upper bits, so we discard first 64\r\n repeat(64) { nextInt() }\r\n }\r\n\r\n override fun nextInt(): Int {\r\n var t = x\r\n t = t xor (t ushr 2)\r\n x = y\r\n y = z\r\n z = w\r\n val v0 = v\r\n w = v0\r\n t = (t xor (t shl 1)) xor v0

xor (v0 shl 4)\r\n v = t\r\n addend += 362437\r\n return t + addend\r\n }\r\n\r\n override fun nextBits(bitCount: Int): Int =\r\n nextInt().takeUpperBits(bitCount)\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"RangesKt\")\r\n\r\npackage kotlin.ranges\r\n\r\n/**\r\n * Represents a range of floating point numbers.\r\n * Extends [ClosedRange] interface providing custom operation [lessThanOrEquals] for comparing values of range domain type.\r\n *\r\n * This interface is implemented by floating point ranges returned by [Float.rangeTo] and [Double.rangeTo] operators to\r\n * achieve IEEE-754 comparison order instead of total order of floating point numbers.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic interface ClosedFloatingPointRange<T : Comparable<T>> : ClosedRange<T> {\r\n override fun contains(value: T): Boolean = lessThanOrEquals(start, value) && lessThanOrEquals(value, endInclusive)\r\n override fun isEmpty(): Boolean = !lessThanOrEquals(start, endInclusive)\r\n\r\n /**\r\n * Compares two values of range domain type and returns true if first is less than or equal to second.\r\n */\r\n fun lessThanOrEquals(a: T, b: T): Boolean\r\n}\r\n\r\n/**\r\n * Represents a range of [Comparable] values.\r\n */\r\nprivate open class ComparableRange<T : Comparable<T>>(\r\n override val start: T,\r\n override val endInclusive: T\r\n) : ClosedRange<T> {\r\n\r\n override fun equals(other: Any?): Boolean {\r\n return other is ComparableRange<*> && (isEmpty() && other.isEmpty() ||\r\n start == other.start && endInclusive == other.endInclusive)\r\n }\r\n\r\n override fun hashCode(): Int {\r\n return if (isEmpty()) -1 else 31 * start.hashCode() + endInclusive.hashCode()\r\n }\r\n\r\n override fun toString(): String = \"$start..$endInclusive\"\r\n}\r\n\r\n/**\r\n * A closed range of values of type `Double`.\r\n *\r\n * Numbers are compared with the ends of this range according to IEEE-754.\r\n */\r\nprivate class ClosedDoubleRange(\r\n start: Double,\r\n endInclusive: Double\r\n) : ClosedFloatingPointRange<Double> {\r\n private val _start = start\r\n private val _endInclusive = endInclusive\r\n override val start: Double get() = _start\r\n override val endInclusive: Double get() = _endInclusive\r\n\r\n override fun lessThanOrEquals(a: Double, b: Double): Boolean = a <= b\r\n\r\n override fun contains(value: Double): Boolean = value >= _start && value <= _endInclusive\r\n override fun isEmpty(): Boolean = !(_start <= _endInclusive)\r\n\r\n override fun equals(other: Any?): Boolean {\r\n return other is ClosedDoubleRange && (isEmpty() && other.isEmpty() ||\r\n _start == other._start && _endInclusive == other._endInclusive)\r\n }\r\n\r\n override fun hashCode(): Int {\r\n return if (isEmpty()) -1 else 31 * _start.hashCode() + _endInclusive.hashCode()\r\n }\r\n\r\n override fun toString(): String = \"$_start..$_endInclusive\"\r\n}\r\n\r\n\r\n/**\r\n * Creates a range from this [Comparable] value to the specified [that] value.\r\n *\r\n * This value needs to be smaller than [that] value, otherwise the returned range will be empty.\r\n * @sample samples.ranges.Ranges.rangeFromComparable\r\n */\r\npublic operator fun <T : Comparable<T>> T.rangeTo(that: T): ClosedRange<T> = ComparableRange(this, that)\r\n\r\n/**\r\n * Creates a range from this [Double] value to the specified [that] value.\r\n *\r\n * Numbers are compared with the ends of this range according to IEEE-754.\r\n * @sample samples.ranges.Ranges.rangeFromDouble\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic operator fun Double.rangeTo(that: Double): ClosedFloatingPointRange<Double> = ClosedDoubleRange(this, that)\r\n\r\n\r\n/**\r\n * Returns `true` if this iterable range contains the specified [element].\r\n *\r\n * Always returns `false` if the [element] is `null`.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <T, R> R.contains(element: T?): Boolean where T : Any, R : Iterable<T>, R : ClosedRange<T> =\r\n element != null && contains(element)\r\n\r\n\r\n\r\ninternal fun checkStepIsPositive(isPositive: Boolean, step: Number) {\r\n if (!isPositive) throw IllegalArgumentException(\"Step must be positive, was: $step.\")\r\n}\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\npackage kotlin.reflect\r\n\r\n\r\n/**\r\n * Returns a runtime representation of the given reified type [T] as an instance of [KType].\r\n */\r\n@Suppress(\"unused\") // KT-12448\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic inline fun <reified T> typeOf(): KType =\r\n throw UnsupportedOperationException(\"This function is implemented as an intrinsic on all supported

platforms.\")\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"CharsKt\")\r\n\r\npackage kotlin.text\r\n\r\n/**\r\n * Concatenates this Char and a String.\r\n *\r\n * @sample samples.text.Chars.plus\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun Char.plus(other: String): String = this.toString() + other\r\n\r\n/**\r\n * Returns `true` if this character is equal to the [other] character, optionally ignoring character case.\r\n *\r\n * @param ignoreCase `true` to ignore character case when comparing characters. By default `false`.\r\n *\r\n * Two characters are considered the same ignoring case if at least one of the following is `true`:\r\n * - The two characters are the same (as compared by the == operator)\r\n * - Applying the method [toUpperCase] to each character produces the same result\r\n * - Applying the method [toLowerCase] to each character produces the same result\r\n *\r\n * @sample samples.text.Chars.equals\r\n */\r\npublic fun Char.equals(other: Char, ignoreCase: Boolean = false): Boolean {\r\n   if (this == other) return true\r\n   if (!ignoreCase) return false\r\n\r\n   if (this.toUpperCase() == other.toUpperCase()) return true\r\n   if (this.toLowerCase() == other.toLowerCase()) return true\r\n   return false\r\n}\r\n\r\n/**\r\n * Returns `true` if this character is a Unicode surrogate code unit.\r\n */\r\npublic fun Char.isSurrogate(): Boolean = this in Char.MIN_SURROGATE..Char.MAX_SURROGATE\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"StringsKt\")\r\n\r\npackage kotlin.text\r\n\r\n/**\r\n * Trims leading whitespace characters followed by [marginPrefix] from every line of a source string and removes\r\n * the first and the last lines if they are blank (notice difference blank vs empty).\r\n *\r\n * Doesn't affect a line if it doesn't contain [marginPrefix] except the first and the last blank lines.\r\n *\r\n * Doesn't preserve the original line endings.\r\n *\r\n * @param marginPrefix non-blank string, which is used as a margin delimiter. Default is `|` (pipe character).\r\n *\r\n * @sample samples.text.Strings.trimMargin\r\n * @see trimIndent\r\n * @see kotlin.text.isWhitespace\r\n */\r\npublic fun String.trimMargin(marginPrefix: String = \"|\"): String =\r\n   replaceIndentByMargin(\"\", marginPrefix)\r\n\r\n/**\r\n * Detects indent by [marginPrefix] as it does [trimMargin] and replace it with [newIndent].\r\n *\r\n * @param marginPrefix non-blank string, which is used as a margin delimiter. Default is `|` (pipe character).\r\n */\r\npublic fun String.replaceIndentByMargin(newIndent: String = \"\", marginPrefix: String = \"|\"): String {\r\n   require(marginPrefix.isNotBlank()) { \"marginPrefix must be non-blank string.\" }\r\n   val lines = lines()\r\n\r\n   return lines.reindent(length + newIndent.length * lines.size, getIndentFunction(newIndent), { line ->\r\n   val firstNonWhitespaceIndex = line.indexOfFirst { !it.isWhitespace() }\r\n\r\n   when {\r\n   firstNonWhitespaceIndex == -1 -> null\r\n   line.startsWith(marginPrefix, firstNonWhitespaceIndex) -> line.substring(firstNonWhitespaceIndex + marginPrefix.length)\r\n   else -> null\r\n   }\r\n   })\r\n}\r\n\r\n/**\r\n * Detects a common minimal indent of all the input lines, removes it from every line and also removes the first and the last\r\n * lines if they are blank (notice difference blank vs empty).\r\n *\r\n * Note that blank lines do not affect the detected indent level.\r\n *\r\n * In case if there are non-blank lines with no leading whitespace characters (no indent at all) then the\r\n * common indent is 0, and therefore this function doesn't change the indentation.\r\n *\r\n * Doesn't preserve the original line endings.\r\n *\r\n * @sample samples.text.Strings.trimIndent\r\n * @see trimMargin\r\n * @see kotlin.text.isBlank\r\n */\r\npublic fun String.trimIndent(): String = replaceIndent(\"\")\r\n\r\n/**\r\n * Detects a common minimal indent like it does [trimIndent] and replaces it with the specified [newIndent].\r\n */\r\npublic fun String.replaceIndent(newIndent: String = \"\"): String {\r\n   val lines = lines()\r\n\r\n   val minCommonIndent = lines\r\n   .filter(String::isNotBlank)\r\n   .map(String::indentWidth)\r\n   .min() ?: 0\r\n\r\n   return lines.reindent(length + newIndent.length * lines.size, getIndentFunction(newIndent), { line -> line.drop(minCommonIndent) })\r\n}\r\n\r\n/**\r\n * Prepends [indent] to every line of the original string.\r\n *\r\n * Doesn't preserve the original line endings.\r\n */\r\npublic fun String.prependIndent(indent: String = \"   \"): String =\r\n   lineSequence()\r\n   .map {\r\n   when {\r\n   it.isBlank() -> {\r\n   when {\r\n   it.length < indent.length -> indent\r\n   else -> it\r\n   }\r\n   }\r\n

else -> indent + it\r\n }\r\n }\r\n .joinToString(\"\\n\")\r\n\r\nprivate fun String.indentWidth(): Int = indexOfFirst { !it.isWhitespace() }.let { if (it == -1) length else it }\r\n\r\nprivate fun getIndentFunction(indent: String) = when {\r\n indent.isEmpty() -> { line: String -> line }\r\n else -> { line: String -> indent + line }\r\n}\r\n\r\nprivate inline fun List<String>.reindent(\r\n resultSizeEstimate: Int,\r\n indentAddFunction: (String) -> String,\r\n indentCutFunction: (String) -> String?\r\n): String {\r\n val lastIndex = lastIndex\r\n return mapIndexedNotNull { index, value ->\r\n if ((index == 0 || index == lastIndex) && value.isBlank())\r\n null\r\n else\r\n indentCutFunction(value)?.let(indentAddFunction) ?: value\r\n }\r\n .joinTo(StringBuilder(resultSizeEstimate), \"\\n\")\r\n .toString()\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.text\r\n\r\n/**\r\n * Represents a collection of captured groups in a single match of a regular expression.\r\n *\r\n * This collection has size of `groupCount + 1` where `groupCount` is the count of groups in the regular expression.\r\n * Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the entire match.\r\n *\r\n * An element of the collection at the particular index can be `null`,\r\n * if the corresponding group in the regular expression is optional and\r\n * there was no match captured by that group.\r\n */\r\npublic interface MatchGroupCollection : Collection<MatchGroup?> {\r\n\r\n /** Returns a group with the specified [index].\r\n *\r\n * @return An instance of [MatchGroup] if the group with the specified [index] was matched or `null` otherwise.\r\n *\r\n * Groups are indexed from 1 to the count of groups in the regular expression. A group with the index 0\r\n * corresponds to the entire match.\r\n */\r\n public operator fun get(index: Int): MatchGroup?\r\n}\r\n\r\n/**\r\n * Extends [MatchGroupCollection] by introducing a way to get matched groups by name, when regex supports it.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic interface MatchNamedGroupCollection : MatchGroupCollection {\r\n /**\r\n * Returns a named group with the specified [name].\r\n * @return An instance of [MatchGroup] if the group with the specified [name] was matched or `null` otherwise.\r\n * @throws IllegalArgumentException if there is no group with the specified [name] defined in the regex pattern.\r\n * @throws UnsupportedOperationException if getting named groups isn't supported on the current platform.\r\n */\r\n public operator fun get(name: String): MatchGroup?\r\n}\r\n\r\n/**\r\n * Represents the results from a single regular expression match.\r\n */\r\npublic interface MatchResult {\r\n /** The range of indices in the original string where match was captured. */\r\n public val range: IntRange\r\n /** The substring from the input string captured by this match. */\r\n public val value: String\r\n /**\r\n * A collection of groups matched by the regular expression.\r\n *\r\n * This collection has size of `groupCount + 1` where `groupCount` is the count of groups in the regular expression.\r\n * Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the entire match.\r\n */\r\n public val groups: MatchGroupCollection\r\n /**\r\n * A list of matched indexed group values.\r\n *\r\n * This list has size of `groupCount + 1` where `groupCount` is the count of groups in the regular expression.\r\n * Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the entire match.\r\n *\r\n * If the group in the regular expression is optional and there were no match captured by that group,\r\n * corresponding item in [groupValues] is an empty string.\r\n *\r\n * @sample samples.text.Regexps.matchDestructuringToGroupValues\r\n */\r\n public val groupValues: List<String>\r\n\r\n /**\r\n * An instance of [MatchResult.Destructured] wrapper providing components for destructuring assignment of group values.\r\n *\r\n * component1 corresponds to the value of the first group, component2 \u2014 of the second, and so on.\r\n *\r\n * @sample samples.text.Regexps.matchDestructuringToGroupValues\r\n */\r\n public val destructured: Destructured get() = Destructured(this)\r\n\r\n /** Returns a new [MatchResult] with the results for the next match, starting at the position\r\n * at which the last match ended (at the character after the last matched character).\r\n */\r\n public fun next(): MatchResult?\r\n\r\n /**\r\n * Provides components for destructuring assignment of group values.\r\n *\r\n * [component1] corresponds to the value of the first group, [component2] \u2014 of the second, and so on.\r\n *\r\n * If the group in the regular expression is optional and there were no match captured by that group,\r\n * corresponding component value is an empty string.\r\n *\r\n * @sample samples.text.Regexps.matchDestructuringToGroupValues\r\n */\r\n public class Destructured internal

constructor(public val match: MatchResult) {\r\n @kotlin.internal.InlineOnly\r\n public operator inline fun component1(): String = match.groupValues[1]\r\n @kotlin.internal.InlineOnly\r\n public operator inline fun component2(): String = match.groupValues[2]\r\n @kotlin.internal.InlineOnly\r\n public operator inline fun component3(): String = match.groupValues[3]\r\n @kotlin.internal.InlineOnly\r\n public operator inline fun component4(): String = match.groupValues[4]\r\n @kotlin.internal.InlineOnly\r\n public operator inline fun component5(): String = match.groupValues[5]\r\n @kotlin.internal.InlineOnly\r\n public operator inline fun component6(): String = match.groupValues[6]\r\n @kotlin.internal.InlineOnly\r\n public operator inline fun component7(): String = match.groupValues[7]\r\n @kotlin.internal.InlineOnly\r\n public operator inline fun component8(): String = match.groupValues[8]\r\n @kotlin.internal.InlineOnly\r\n public operator inline fun component9(): String = match.groupValues[9]\r\n @kotlin.internal.InlineOnly\r\n public operator inline fun component10(): String = match.groupValues[10]\r\n\r\n /**\r\n * Returns destructured group values as a list of strings.\r\n * First value in the returned list corresponds to the value of the first group, and so on.\r\n *\r\n * @sample samples.text.Regexps.matchDestructuringToGroupValues\r\n */\r\n public fun toList(): List<String> = match.groupValues.subList(1, match.groupValues.size)\r\n }\r\n}","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.text\r\n\r\n/**\r\n * Defines names for Unicode symbols used in proper Typography.\r\n */\r\npublic object Typography {\r\n /** The character " \u2013 quotation mark */\r\n public const val quote: Char = '\\u0022'\r\n /** The character $ \u2013 dollar sign */\r\n public const val dollar: Char = '\\u0024'\r\n /** The character & \u2013 ampersand */\r\n public const val amp: Char = '\\u0026'\r\n /** The character < \u2013 less-than sign */\r\n public const val less: Char = '\\u003C'\r\n /** The character > \u2013 greater-than sign */\r\n public const val greater: Char = '\\u003E'\r\n /** The non-breaking space character */\r\n public const val nbsp: Char = '\\u00A0'\r\n /** The character × */\r\n public const val times: Char = '\\u00D7'\r\n /** The character ¢ */\r\n public const val cent: Char = '\\u00A2'\r\n /** The character £ */\r\n public const val pound: Char = '\\u00A3'\r\n /** The character § */\r\n public const val section: Char = '\\u00A7'\r\n /** The character © */\r\n public const val copyright: Char = '\\u00A9'\r\n /** The character « */\r\n public const val leftGuillemete: Char = '\\u00AB'\r\n /** The character » */\r\n public const val rightGuillemete: Char = '\\u00BB'\r\n /** The character ® */\r\n public const val registered: Char = '\\u00AE'\r\n /** The character ° */\r\n public const val degree: Char = '\\u00B0'\r\n /** The character ± */\r\n public const val plusMinus: Char = '\\u00B1'\r\n /** The character ¶ */\r\n public const val paragraph: Char = '\\u00B6'\r\n /** The character · */\r\n public const val middleDot: Char = '\\u00B7'\r\n /** The character ½ */\r\n public const val half: Char = '\\u00BD'\r\n /** The character – */\r\n public const val ndash: Char = '\\u2013'\r\n /** The character — */\r\n public const val mdash: Char = '\\u2014'\r\n /** The character ‘ */\r\n public const val leftSingleQuote: Char = '\\u2018'\r\n /** The character ’ */\r\n public const val rightSingleQuote: Char = '\\u2019'\r\n /** The character ‚ */\r\n public const val lowSingleQuote: Char = '\\u201A'\r\n /** The character “ */\r\n public const val leftDoubleQuote: Char = '\\u201C'\r\n /** The character ” */\r\n public const val rightDoubleQuote: Char = '\\u201D'\r\n /** The character „ */\r\n public const val lowDoubleQuote: Char = '\\u201E'\r\n /** The character † */\r\n public const val dagger: Char = '\\u2020'\r\n /** The character ‡ */\r\n public const val doubleDagger: Char = '\\u2021'\r\n /** The character • */\r\n public const val bullet: Char = '\\u2022'\r\n /** The character … */\r\n public const val ellipsis: Char = '\\u2026'\r\n /** The character ′ */\r\n public const val prime: Char = '\\u2032'\r\n /** The character ″ */\r\n public const val doublePrime: Char = '\\u2033'\r\n /** The character € */\r\n public const val euro: Char = '\\u20AC'\r\n /** The character ™ */\r\n public const val tm: Char = '\\u2122'\r\n /** The character ≈ */\r\n public const val almostEqual: Char = '\\u2248'\r\n /** The character ≠ */\r\n public const val notEqual: Char = '\\u2260'\r\n /** The character ≤ */\r\n public const val lessOrEqual: Char = '\\u2264'\r\n /** The character ≥ */\r\n public const val greaterOrEqual: Char =

'\\u2265'\r\n}","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.time\r\n\r\n/**\r\n * A source of time for measuring time intervals.\r\n *\r\n * The only operation provided by the clock is [markNow]. It returns a [ClockMark], which can be used to query the elapsed time later.\r\n *\r\n * @see [measureTime]\r\n * @see [measureTimedValue]\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic interface Clock {\r\n   /**\r\n   * Marks a time point on this clock.\r\n   *\r\n   * The returned [ClockMark] instance encapsulates captured time point and allows querying\r\n   * the duration of time interval [elapsed][ClockMark.elapsedNow] from that point.\r\n   */\r\n   public fun markNow(): ClockMark\r\n}\r\n\r\n/**\r\n * Represents a time point notched on a particular [Clock]. Remains bound to the clock it was taken from\r\n * and allows querying for the duration of time elapsed from that point (see the function [elapsedNow]).\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic abstract class ClockMark {\r\n   /**\r\n   * Returns the amount of time passed from this clock mark on the clock from which this mark was taken.\r\n   *\r\n   * Note that the value returned by this function can change on subsequent invocations.\r\n   */\r\n   public abstract fun elapsedNow(): Duration\r\n\r\n   /**\r\n   * Returns a clock mark on the same clock that is ahead of this clock mark by the specified [duration].\r\n   *\r\n   * The returned clock mark is more _late_ when the [duration] is positive, and more _early_ when the [duration] is negative.\r\n   */\r\n   public open operator fun plus(duration: Duration): ClockMark = AdjustedClockMark(this, duration)\r\n\r\n   /**\r\n   * Returns a clock mark on the same clock that is behind this clock mark by the specified [duration].\r\n   *\r\n   * The returned clock mark is more _early_ when the [duration] is positive, and more _late_ when the [duration] is negative.\r\n   */\r\n   public open operator fun minus(duration: Duration): ClockMark = plus(-duration)\r\n\r\n\r\n   /**\r\n   * Returns true if this clock mark has passed according to the clock from which this mark was taken.\r\n   *\r\n   * Note that the value returned by this function can change on subsequent invocations.\r\n   * If the clock is monotonic, it can change only from `false` to `true`, namely, when the clock mark becomes behind the current point of the clock.\r\n   */\r\n   public fun hasPassedNow(): Boolean = !elapsedNow().isNegative()\r\n\r\n   /**\r\n   * Returns false if this clock mark has not passed according to the clock from which this mark was taken.\r\n   *\r\n   * Note that the value returned by this function can change on subsequent invocations.\r\n   * If the clock is monotonic, it can change only from `true` to `false`, namely, when the clock mark becomes behind the current point of the clock.\r\n   */\r\n   public fun hasNotPassedNow(): Boolean = elapsedNow().isNegative()\r\n}\r\n\r\n\r\n@ExperimentalTime\r\n@SinceKotlin(\"1.3\")\r\n@kotlin.internal.InlineOnly\r\n@Deprecated(\"Subtracting one ClockMark from another is not a well defined operation because these clock marks could have been obtained from the different clocks.\", level = DeprecationLevel.ERROR)\r\npublic inline operator fun ClockMark.minus(other: ClockMark): Duration = throw Error(\"Operation is disallowed.\")\r\n\r\n@ExperimentalTime\r\n@SinceKotlin(\"1.3\")\r\n@kotlin.internal.InlineOnly\r\n@Deprecated(\"Comparing one ClockMark to another is not a well defined operation because these clock marks could have been obtained from the different clocks.\", level = DeprecationLevel.ERROR)\r\npublic inline operator fun ClockMark.compareTo(other: ClockMark): Int = throw Error(\"Operation is disallowed.\")\r\n\r\n\r\n@ExperimentalTime\r\nprivate class AdjustedClockMark(val mark: ClockMark, val adjustment: Duration) : ClockMark() {\r\n   override fun elapsedNow(): Duration = mark.elapsedNow() - adjustment\r\n\r\n   override fun plus(duration: Duration): ClockMark = AdjustedClockMark(mark, adjustment + duration)\r\n}","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.time\r\n\r\n/**\r\n * The most precise clock available in the platform.\r\n *\r\n * The clock returns its readings from a source of monotonic time when it is available in a target platform,\r\n * and resorts to a non-monotonic time source otherwise.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic expect object MonoClock : Clock\r\n\r\n/**\r\n * An abstract class used to implement clocks that return their readings as [Long] values in the specified [unit].\r\n *\r\n * @property unit The unit in which this clock readings are expressed.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic abstract class AbstractLongClock(protected val unit: DurationUnit) : Clock {\r\n   /**\r\n   * This protected method should be

overridden to return the current reading of the clock expressed as a [Long] number\r\n * in the unit specified by the [unit] property.\r\n */\r\n protected abstract fun read(): Long\r\n\r\n private class LongClockMark(private val startedAt: Long, private val clock: AbstractLongClock, private val offset: Duration) : ClockMark() {\r\n override fun elapsedNow(): Duration = (clock.read() - startedAt).toDuration(clock.unit) - offset\r\n override fun plus(duration: Duration): ClockMark = LongClockMark(startedAt, clock, offset + duration)\r\n }\r\n\r\n override fun markNow(): ClockMark = LongClockMark(read(), this, Duration.ZERO)\r\n}\r\n\r\n/**\r\n * An abstract class used to implement clocks that return their readings as [Double] values in the specified [unit].\r\n *\r\n * @property unit The unit in which this clock readings are expressed.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic abstract class AbstractDoubleClock(protected val unit: DurationUnit) : Clock {\r\n /**\r\n * This protected method should be overridden to return the current reading of the clock expressed as a [Double] number\r\n * in the unit specified by the [unit] property.\r\n */\r\n protected abstract fun read(): Double\r\n\r\n private class DoubleClockMark(private val startedAt: Double, private val clock: AbstractDoubleClock, private val offset: Duration) : ClockMark() {\r\n override fun elapsedNow(): Duration = (clock.read() - startedAt).toDuration(clock.unit) - offset\r\n override fun plus(duration: Duration): ClockMark = DoubleClockMark(startedAt, clock, offset + duration)\r\n }\r\n\r\n override fun markNow(): ClockMark = DoubleClockMark(read(), this, Duration.ZERO)\r\n}\r\n\r\n/**\r\n * A clock that has programmatically updatable readings. It is useful as a predictable source of time in tests.\r\n *\r\n * The current clock reading value can be advanced by the specified duration amount with the operator [plusAssign]:\r\n *\r\n * ```\r\n * val clock = TestClock()\r\n * clock += 10.seconds\r\n * ```\r\n *\r\n * Implementation note: the current clock reading value is stored as a [Long] number of nanoseconds,\r\n * thus it's capable to represent a time range of approximately \u00b1292 years.\r\n * Should the reading value overflow as the result of [plusAssign] operation, an [IllegalStateException] is thrown.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic class TestClock : AbstractLongClock(unit = DurationUnit.NANOSECONDS) {\r\n private var reading: Long = 0L\r\n\r\n override fun read(): Long = reading\r\n\r\n /**\r\n * Advances the current reading value of this clock by the specified [duration].\r\n *\r\n * [duration] value is rounded down towards zero when converting it to a [Long] number of nanoseconds.\r\n * For example, if the duration being added is `0.6.nanoseconds`, the clock reading won't advance because\r\n * the duration value will be rounded to zero nanoseconds.\r\n *\r\n * @throws IllegalStateException when the reading value overflows as the result of this operation.\r\n */\r\n public operator fun plusAssign(duration: Duration) {\r\n val delta = duration.toDouble(unit)\r\n val longDelta = delta.toLong()\r\n reading = if (longDelta != Long.MIN_VALUE && longDelta != Long.MAX_VALUE) {\r\n // when delta fits in long, add it as long\r\n val newReading = reading + longDelta\r\n if (reading xor longDelta >= 0 && reading xor newReading < 0) overflow(duration)\r\n newReading\r\n } else {\r\n // when delta is greater than long, add it as double\r\n val newReading = reading + delta\r\n if (newReading > Long.MAX_VALUE || newReading < Long.MIN_VALUE) overflow(duration)\r\n newReading.toLong()\r\n }\r\n }\r\n\r\n private fun overflow(duration: Duration) {\r\n throw IllegalStateException(\"TestClock will overflow if its reading ${reading}ns is advanced by $duration.\")\r\n }\r\n}\r\n\r\n/*\r\npublic interface WallClock {\r\n fun currentTimeMilliseconds(): Long\r\n\r\n companion object : WallClock, AbstractLongClock(unit = DurationUnit.MILLISECONDS) {\r\n override fun currentTimeMilliseconds(): Long = System.currentTimeMillis()\r\n override fun read(): Long = System.currentTimeMillis()\r\n override fun toString(): String = \"WallClock(System.currentTimeMillis())\"\r\n }\r\n}\r\n*/","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.time\r\n\r\nimport kotlin.math.abs\r\n\r\n@UseExperimental(ExperimentalTime::class)\r\nprivate inline val storageUnit get() = DurationUnit.NANOSECONDS\r\n\r\n/**\r\n * Represents the amount of time one instant of time is away from another instant.\r\n *\r\n * A negative duration is possible in a situation when the second instant is earlier than the first one.\r\n * An infinite duration value [Duration.INFINITE] can be used to represent infinite timeouts.\r\n *\r\n * To construct a duration use either the extension function [toDuration],\r\n * or the extension properties [hours],

[minutes], [seconds], and so on,\r\n * available on [Int], [Long], and [Double] numeric types.\r\n *\r\n * To get the value of this duration expressed in a particular [duration units][DurationUnit]\r\n * use the functions [toInt], [toLong], and [toDouble]\r\n * or the properties [inHours], [inMinutes], [inSeconds], [inNanoseconds], and so on.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\n@Suppress(\"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS\")\r\npublic inline class Duration internal constructor(internal val value: Double) : Comparable<Duration> {\r\n// TODO: backend fails on init block, wait for KT-28055\r\n\r\n// init {\r\n// require(_value.isNaN().not())\r\n// }\r\n\r\n companion object {\r\n /** The duration equal to exactly 0 seconds. */\r\n public val ZERO: Duration = Duration(0.0)\r\n\r\n /** The duration whose value is positive infinity. It is useful for representing timeouts that should never expire. */\r\n public val INFINITE: Duration = Duration(Double.POSITIVE_INFINITY)\r\n\r\n /** Converts the given time duration [value] expressed in the specified [sourceUnit] into the specified [targetUnit]. */\r\n public fun convert(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double =\r\n convertDurationUnit(value, sourceUnit, targetUnit)\r\n }\r\n\r\n // arithmetic operators\r\n\r\n /** Returns the negative of this value. */\r\n public operator fun unaryMinus(): Duration = Duration(-value)\r\n\r\n /** Returns a duration whose value is the sum of this and [other] duration values. */\r\n public operator fun plus(other: Duration): Duration = Duration(value + other.value)\r\n\r\n /** Returns a duration whose value is the difference between this and [other] duration values. */\r\n public operator fun minus(other: Duration): Duration = Duration(value - other.value)\r\n\r\n /** Returns a duration whose value is this duration value multiplied by the given [scale] number. */\r\n public operator fun times(scale: Int): Duration = Duration(value * scale)\r\n\r\n /** Returns a duration whose value is this duration value multiplied by the given [scale] number. */\r\n public operator fun times(scale: Double): Duration = Duration(value * scale)\r\n\r\n /** Returns a duration whose value is this duration value divided by the given [scale] number. */\r\n public operator fun div(scale: Int): Duration = Duration(value / scale)\r\n\r\n /** Returns a duration whose value is this duration value divided by the given [scale] number. */\r\n public operator fun div(scale: Double): Duration = Duration(value / scale)\r\n\r\n /** Returns a number that is the ratio of [this] and [other] duration values. */\r\n public operator fun div(other: Duration): Double = this.value / other.value\r\n\r\n /** Returns true, if the duration value is less than zero. */\r\n public fun isNegative(): Boolean = value < 0\r\n\r\n /** Returns true, if the duration value is greater than zero. */\r\n public fun isPositive(): Boolean = value > 0\r\n\r\n /** Returns true, if the duration value is infinite. */\r\n public fun isInfinite(): Boolean = value.isInfinite()\r\n\r\n /** Returns true, if the duration value is finite. */\r\n public fun isFinite(): Boolean = value.isFinite()\r\n\r\n /** Returns the absolute value of this value. The returned value is always non-negative. */\r\n public val absoluteValue: Duration get() = if (isNegative()) -this else this\r\n\r\n override fun compareTo(other: Duration): Int = this.value.compareTo(other.value)\r\n\r\n\r\n // splitting to components\r\n\r\n /**\r\n * Splits this duration into days, hours, minutes, seconds, and nanoseconds and executes the given [action] with these components.\r\n * The result of [action] is returned as the result of this function.\r\n *\r\n * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\r\n * - `seconds` represents the whole number of seconds in this duration, and its absolute value is less than 60;\r\n * - `minutes` represents the whole number of minutes in this duration, and its absolute value is less than 60;\r\n * - `hours` represents the whole number of hours in this duration, and its absolute value is less than 24;\r\n * - `days` represents the whole number of days in this duration.\r\n * If the value doesn't fit in [Int] range, i.e. it's greater than [Int.MAX_VALUE] or less than [Int.MIN_VALUE],\r\n * it is coerced into that range.\r\n */\r\n public inline fun <T> toComponents(action: (days: Int, hours: Int, minutes: Int, seconds: Int, nanoseconds: Int) -> T): T =\r\n action(inDays.toInt(), hoursComponent, minutesComponent, secondsComponent, nanosecondsComponent)\r\n\r\n\r\n /**\r\n * Splits this duration into hours, minutes, seconds, and nanoseconds and executes the given [action] with these components.\r\n * The result of [action] is returned as the result of this function.\r\n *\r\n * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\r\n * - `seconds` represents the whole number of seconds in this duration, and its absolute value is less than 60;\r\n * - `minutes` represents the whole number of

minutes in this duration, and its absolute value is less than 60;\r\n * - `hours` represents the whole number of hours in this duration.\r\n * If the value doesn't fit in [Int] range, i.e. it's greater than [Int.MAX_VALUE] or less than [Int.MIN_VALUE],\r\n * it is coerced into that range.\r\n */\r\n public inline fun <T> toComponents(action: (hours: Int, minutes: Int, seconds: Int, nanoseconds: Int) -> T): T =\r\n action(inHours.toInt(), minutesComponent, secondsComponent, nanosecondsComponent)\r\n\r\n /**\r\n * Splits this duration into minutes, seconds, and nanoseconds and executes the given [action] with these components.\r\n * The result of [action] is returned as the result of this function.\r\n *\r\n * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\r\n * - `seconds` represents the whole number of seconds in this duration, and its absolute value is less than 60;\r\n * - `minutes` represents the whole number of minutes in this duration.\r\n * If the value doesn't fit in [Int] range, i.e. it's greater than [Int.MAX_VALUE] or less than [Int.MIN_VALUE],\r\n * it is coerced into that range.\r\n */\r\n public inline fun <T> toComponents(action: (minutes: Int, seconds: Int, nanoseconds: Int) -> T): T =\r\n action(inMinutes.toInt(), secondsComponent, nanosecondsComponent)\r\n\r\n /**\r\n * Splits this duration into seconds, and nanoseconds and executes the given [action] with these components.\r\n * The result of [action] is returned as the result of this function.\r\n *\r\n * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\r\n * - `seconds` represents the whole number of seconds in this duration.\r\n * If the value doesn't fit in [Long] range, i.e. it's greater than [Long.MAX_VALUE] or less than [Long.MIN_VALUE],\r\n * it is coerced into that range.\r\n */\r\n public inline fun <T> toComponents(action: (seconds: Long, nanoseconds: Int) -> T): T =\r\n action(inSeconds.toLong(), nanosecondsComponent)\r\n\r\n @PublishedApi\r\n internal val hoursComponent: Int get() = (inHours % 24).toInt()\r\n @PublishedApi\r\n internal val minutesComponent: Int get() = (inMinutes % 60).toInt()\r\n @PublishedApi\r\n internal val secondsComponent: Int get() = (inSeconds % 60).toInt()\r\n @PublishedApi\r\n internal val nanosecondsComponent: Int get() = (inNanoseconds % 1e9).toInt()\r\n\r\n\r\n // conversion to units\r\n\r\n /** Returns the value of this duration expressed as a [Double] number of the specified [unit]. */\r\n public fun toDouble(unit: DurationUnit): Double = convertDurationUnit(value, storageUnit, unit)\r\n\r\n /**\r\n * Returns the value of this duration expressed as a [Long] number of the specified [unit].\r\n *\r\n * If the value doesn't fit in the range of [Long] type, it is coerced into that range, see the conversion [Double.toLong] for details.\r\n */\r\n public fun toLong(unit: DurationUnit): Long = toDouble(unit).toLong()\r\n\r\n /**\r\n * Returns the value of this duration expressed as an [Int] number of the specified [unit].\r\n *\r\n * If the value doesn't fit in the range of [Int] type, it is coerced into that range, see the conversion [Double.toInt] for details.\r\n */\r\n public fun toInt(unit: DurationUnit): Int = toDouble(unit).toInt()\r\n\r\n /** The value of this duration expressed as a [Double] number of days. */\r\n public val inDays: Double get() = toDouble(DurationUnit.DAYS)\r\n\r\n /** The value of this duration expressed as a [Double] number of hours. */\r\n public val inHours: Double get() = toDouble(DurationUnit.HOURS)\r\n\r\n /** The value of this duration expressed as a [Double] number of minutes. */\r\n public val inMinutes: Double get() = toDouble(DurationUnit.MINUTES)\r\n\r\n /** The value of this duration expressed as a [Double] number of seconds. */\r\n public val inSeconds: Double get() = toDouble(DurationUnit.SECONDS)\r\n\r\n /** The value of this duration expressed as a [Double] number of milliseconds. */\r\n public val inMilliseconds: Double get() = toDouble(DurationUnit.MILLISECONDS)\r\n\r\n /** The value of this duration expressed as a [Double] number of microseconds. */\r\n public val inMicroseconds: Double get() = toDouble(DurationUnit.MICROSECONDS)\r\n\r\n /** The value of this duration expressed as a [Double] number of nanoseconds. */\r\n public val inNanoseconds: Double get() = toDouble(DurationUnit.NANOSECONDS)\r\n\r\n // shortcuts\r\n\r\n /**\r\n * Returns the value of this duration expressed as a [Long] number of nanoseconds.\r\n *\r\n * If the value doesn't fit in the range of [Long] type, it is coerced into that range, see the conversion [Double.toLong] for details.\r\n *\r\n * The range of durations that can be expressed as a `Long` number of nanoseconds is approximately \u00c2\u00b1292 years.\r\n */\r\n public fun toLongNanoseconds(): Long = toLong(DurationUnit.NANOSECONDS)\r\n\r\n /**\r\n * Returns the value of this duration expressed as a [Long] number of milliseconds.\r\n *\r\n * The value is

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coerced to the range of [Long] type, if it doesn't fit in that range, see the conversion [Double.toLong] for details.\r\n
 *\r\n     * The range of durations that can be expressed as a `Long` number of milliseconds is approximately
\u00c2\u00b1292 million years.\r\n     */\r\n    public fun toLongMilliseconds(): Long =
toLong(DurationUnit.MILLISECONDS)\r\n\r\n\r\n    /**\r\n     * Returns a string representation of this duration value
expressed in the unit which yields the most compact and readable number value.\r\n     *\r\n     * Special cases:\r\n
*  - zero duration is formatted as `\"0s\"`\r\n     *  - the infinite duration is formatted as `\"Infinity\"` without unit\r\n
 *  - very small durations (less than 1e-15 s) are expressed in seconds and formatted in scientific notation\r\n     *  -
very big durations (more than 1e+7 days) are expressed in days and formatted in scientific notation\r\n     *\r\n     *
@return the value of duration in the automatically determined unit followed by that unit abbreviated name: `d`, `h`,
`m`, `s`, `ms`, `us`, or `ns`.\r\n     *\r\n     * @sample samples.time.Durations.toStringDefault\r\n     */\r\n    override
fun toString(): String = when {\r\n        isInfinite() -> value.toString()\r\n        value == 0.0 -> \"0s\"\r\n        else ->
{\r\n            val absNs = absoluteValue.inNanoseconds\r\n            var scientific = false\r\n            var maxDecimals =
0\r\n            val unit = when {\r\n                absNs < 1e-6 -> DurationUnit.SECONDS.also { scientific = true }\r\n
        absNs < 1 -> DurationUnit.NANOSECONDS.also { maxDecimals = 7 }\r\n                absNs < 1e3 ->
DurationUnit.NANOSECONDS\r\n                absNs < 1e6 -> DurationUnit.MICROSECONDS\r\n                absNs
< 1e9 -> DurationUnit.MILLISECONDS\r\n                absNs < 1000e9 -> DurationUnit.SECONDS\r\n
absNs < 60_000e9 -> DurationUnit.MINUTES\r\n                absNs < 3600_000e9 -> DurationUnit.HOURS\r\n
    absNs < 86400e9 * 1e7 -> DurationUnit.DAYS\r\n                else -> DurationUnit.DAYS.also { scientific = true
}\r\n            }\r\n            val value = toDouble(unit)\r\n            when {\r\n                scientific ->
formatScientific(value)\r\n                maxDecimals > 0 -> formatUpToDecimals(value, maxDecimals)\r\n
else -> formatToExactDecimals(value, precision(abs(value)))\r\n            } + unit.shortName()\r\n        }\r\n
}\r\n\r\n    private fun precision(value: Double): Int = when {\r\n        value < 1 -> 3\r\n        value < 10 -> 2\r\n
value < 100 -> 1\r\n        else -> 0\r\n    }\r\n\r\n    /**\r\n     * Returns a string representation of this duration value
expressed in the given [unit]\r\n     * and formatted with the specified [decimals] number of digits after decimal
point.\r\n     *\r\n     * Special cases:\r\n     *  - the infinite duration is formatted as `\"Infinity\"` without unit\r\n
*\r\n     * @return the value of duration in the specified [unit] followed by that unit abbreviated name: `d`, `h`, `m`,
`s`, `ms`, `us`, or `ns`.\r\n     *\r\n     * @throws IllegalArgumentException if [decimals] is less than zero.\r\n     *\r\n
 * @sample samples.time.Durations.toStringDecimals\r\n     */\r\n    public fun toString(unit: DurationUnit,
decimals: Int = 0): String {\r\n        require(decimals >= 0) { \"decimals must be not negative, but was $decimals\"
}\r\n        if (isInfinite()) return value.toString()\r\n        val number = toDouble(unit)\r\n        return when {\r\n
abs(number) < 1e14 -> formatToExactDecimals(number, decimals.coerceAtMost(12))\r\n            else ->
formatScientific(number)\r\n        } + unit.shortName()\r\n    }\r\n\r\n\r\n\r\n    /**\r\n     * Returns an ISO-8601 based
string representation of this duration.\r\n     *\r\n     * The returned value is presented in the format `PThHmMs.fS`,
where `h`, `m`, `s` are the integer components of this duration (see [toComponents])\r\n     * and `f` is a fractional
part of second. Depending on the roundness of the value the fractional part can be formatted with either\r\n     * 0, 3,
6, or 9 decimal digits.\r\n     *\r\n     * If the hours component absolute value of this duration is greater than
[Int.MAX_VAlUE], it is replaced with [Int.MAX_VALUE],\r\n     * so the infinite duration is formatted as
`\"PT2147483647H\".\r\n     *\r\n     * Negative durations are indicated with the sign `-` in the beginning of the
returned string, for example, `\"-PT5M30S\"`.\r\n     *\r\n     * @sample samples.time.Durations.toIsoString\r\n
*/\r\n    public fun toIsoString(): String = buildString {\r\n        if (isNegative()) append('-')\r\n
append(\"PT\")\r\n        absoluteValue.toComponents { hours, minutes, seconds, nanoseconds ->\r\n            val
hasHours = hours != 0\r\n            val hasSeconds = seconds != 0 || nanoseconds != 0\r\n            val hasMinutes =
minutes != 0 || (hasSeconds && hasHours)\r\n            if (hasHours) {\r\n                append(hours).append('H')\r\n
  }\r\n            if (hasMinutes) {\r\n                append(minutes).append('M')\r\n            }\r\n            if (hasSeconds ||
(!hasHours && !hasMinutes)) {\r\n                append(seconds)\r\n                if (nanoseconds != 0) {\r\n
append('.')\r\n                    val nss = nanoseconds.toString().padStart(9, '0')\r\n                    when {\r\n
nanoseconds % 1_000_000 == 0 -> append(nss, 0, 3)\r\n                        nanoseconds % 1_000 == 0 -> append(nss,
0, 6)\r\n                        else -> append(nss)\r\n                    }\r\n                }\r\n                append('S')\r\n            }\r\n
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}\r\n   }\r\n\r\n}\r\n\r\n// constructing from number of units\r\n// extension functions\r\n\r\n/** Returns a [Duration] equal to this [Int] number of the specified [unit].
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic fun Int.toDuration(unit: DurationUnit): Duration = toDouble().toDuration(unit)\r\n\r\n/** Returns a [Duration] equal to this [Long] number of the specified [unit].
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic fun Long.toDuration(unit: DurationUnit): Duration = toDouble().toDuration(unit)\r\n\r\n/** Returns a [Duration] equal to this [Double] number of the specified [unit].
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic fun Double.toDuration(unit: DurationUnit): Duration = Duration(convertDurationUnit(this, unit, storageUnit))\r\n\r\n// constructing from number of units\r\n// extension properties\r\n\r\n/** Returns a [Duration] equal to this [Int] number of nanoseconds.
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Int.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\r\n\r\n/** Returns a [Duration] equal to this [Long] number of nanoseconds. */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Long.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\r\n\r\n/** Returns a [Duration] equal to this [Double] number of nanoseconds. */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Double.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\r\n\r\n/** Returns a [Duration] equal to this [Int] number of microseconds. */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Int.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\r\n\r\n/** Returns a [Duration] equal to this [Long] number of microseconds. */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Long.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\r\n\r\n/** Returns a [Duration] equal to this [Double] number of microseconds. */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Double.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\r\n\r\n/** Returns a [Duration] equal to this [Int] number of milliseconds. */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Int.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\r\n\r\n/** Returns a [Duration] equal to this [Long] number of milliseconds. */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Long.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\r\n\r\n/** Returns a [Duration] equal to this [Double] number of milliseconds. */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Double.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\r\n\r\n/** Returns a [Duration] equal to this [Int] number of seconds.
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Int.seconds get() = toDuration(DurationUnit.SECONDS)\r\n\r\n/** Returns a [Duration] equal to this [Long] number of seconds.
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Long.seconds get() = toDuration(DurationUnit.SECONDS)\r\n\r\n/** Returns a [Duration] equal to this [Double] number of seconds.
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Double.seconds get() = toDuration(DurationUnit.SECONDS)\r\n\r\n/** Returns a [Duration] equal to this [Int] number of minutes.
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Int.minutes get() = toDuration(DurationUnit.MINUTES)\r\n\r\n/** Returns a [Duration] equal to this [Long] number of minutes.
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Long.minutes get() = toDuration(DurationUnit.MINUTES)\r\n\r\n/** Returns a [Duration] equal to this [Double] number of minutes.
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Double.minutes get() = toDuration(DurationUnit.MINUTES)\r\n\r\n/** Returns a [Duration] equal to this [Int] number of hours.
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Int.hours get() = toDuration(DurationUnit.HOURS)\r\n\r\n/** Returns a [Duration] equal to this [Long] number of hours.
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Long.hours get() = toDuration(DurationUnit.HOURS)\r\n\r\n/** Returns a [Duration] equal to this [Double] number of hours.
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Double.hours get() = toDuration(DurationUnit.HOURS)\r\n\r\n/** Returns a [Duration] equal to this [Int] number of days.
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Int.days get() = toDuration(DurationUnit.DAYS)\r\n\r\n/** Returns a [Duration] equal to this [Long] number of days.
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Long.days get() =

toDuration(DurationUnit.DAYS)\r\n\r\n/** Returns a [Duration] equal to this [Double] number of days.
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Double.days get() =
toDuration(DurationUnit.DAYS)\r\n\r\n\r\n/** Returns a duration whose value is the specified [duration] value multiplied by this number.
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun Int.times(duration: Duration): Duration = duration * this\r\n\r\n/** Returns a duration whose value is the specified [duration] value multiplied by this number.
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun Double.times(duration: Duration): Duration = duration * this\r\n\r\n\r\ninternal expect fun formatToExactDecimals(value: Double, decimals: Int): String\r\ninternal expect fun formatUpToDecimals(value: Double, decimals: Int): String\r\ninternal expect fun formatScientific(value: Double): String","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n
*/\r\n\r\n@file:kotlin.jvm.JvmMultifileClass()\r\n@file:kotlin.jvm.JvmName(\"DurationUnitKt\")\r\n\r\npackage kotlin.time\r\n\r\n\r\n/**\r\n * The list of possible time measurement units, in which a duration can be expressed.\r\n *\r\n * The smallest time unit is [NANOSECONDS] and the largest is [DAYS], which corresponds to exactly 24 [HOURS].\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic expect enum class DurationUnit {\r\n /**\r\n * Time unit representing one nanosecond, which is 1/1000 of a microsecond.\r\n */\r\n NANOSECONDS,\r\n /**\r\n * Time unit representing one microsecond, which is 1/1000 of a millisecond.\r\n */\r\n MICROSECONDS,\r\n /**\r\n * Time unit representing one millisecond, which is 1/1000 of a second.\r\n */\r\n MILLISECONDS,\r\n /**\r\n * Time unit representing one second.\r\n */\r\n SECONDS,\r\n /**\r\n * Time unit representing one minute.\r\n */\r\n MINUTES,\r\n /**\r\n * Time unit representing one hour.\r\n */\r\n HOURS,\r\n /**\r\n * Time unit representing one day, which is always equal to 24 hours.\r\n */\r\n DAYS;\r\n}\r\n\r\n/** Converts the given time duration [value] expressed in the specified [sourceUnit] into the specified [targetUnit].
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\ninternal expect fun convertDurationUnit(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit):
Double\r\n\r\n\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\ninternal fun DurationUnit.shortName(): String = when (this) {\r\n DurationUnit.NANOSECONDS -> \"ns\"\r\n DurationUnit.MICROSECONDS -> \"us\"\r\n DurationUnit.MILLISECONDS -> \"ms\"\r\n DurationUnit.SECONDS -> \"s\"\r\n DurationUnit.MINUTES -> \"m\"\r\n DurationUnit.HOURS -> \"h\"\r\n DurationUnit.DAYS -> \"d\"\r\n}","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.time\r\n\r\nimport kotlin.annotation.AnnotationTarget.*\r\n\r\n/**\r\n * This annotation marks the experimental preview of the standard library API for measuring time and working with durations.\r\n *\r\n * > Note that this API is in a preview state and has a very high chance of being changed in the future.\r\n * Do not use it if you develop a library since your library will become binary incompatible\r\n * with the future versions of the standard library.\r\n *\r\n * Any usage of a declaration annotated with `@ExperimentalTime` must be accepted either by\r\n * annotating that usage with the [UseExperimental] annotation, e.g. `@UseExperimental(ExperimentalTime::class)`,\r\n * or by using the compiler argument `-Xuse-experimental=kotlin.time.ExperimentalTime`.\r\n */\r\n@Experimental(level = Experimental.Level.ERROR)\r\n@Retention(AnnotationRetention.BINARY)\r\n@Target(\r\n CLASS,\r\n ANNOTATION_CLASS,\r\n PROPERTY,\r\n FIELD,\r\n LOCAL_VARIABLE,\r\n VALUE_PARAMETER,\r\n CONSTRUCTOR,\r\n FUNCTION,\r\n PROPERTY_GETTER,\r\n PROPERTY_SETTER,\r\n TYPEALIAS\r\n)\r\n@SinceKotlin(\"1.3\")\r\npublic annotation class ExperimentalTime","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.time\r\n\r\nimport kotlin.contracts.*\r\n\r\n/**\r\n * Executes the given function [block] and returns the duration of elapsed time interval.\r\n *\r\n * The elapsed time is measured

with [MonoClock].\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic inline fun measureTime(block: () -> Unit): Duration {\r\n contract {\r\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\r\n }\r\n return MonoClock.measureTime(block)\r\n}\r\n\r\n\r\n/**\r\n * Executes the given function [block] and returns the duration of elapsed time interval.\r\n *\r\n * The elapsed time is measured with the specified `this` [Clock] instance.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic inline fun Clock.measureTime(block: () -> Unit): Duration {\r\n contract {\r\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\r\n }\r\n\r\n val mark = markNow()\r\n block()\r\n return mark.elapsedNow()\r\n}\r\n\r\n\r\n\r\n/**\r\n * Data class representing a result of executing an action, along with the duration of elapsed time interval.\r\n *\r\n * @property value the result of the action.\r\n * @property duration the time elapsed to execute the action.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic data class TimedValue<T>(val value: T, val duration: Duration)\r\n\r\n\r\n/**\r\n * Executes the given function [block] and returns an instance of [TimedValue] class, containing both\r\n * the result of the function execution and the duration of elapsed time interval.\r\n *\r\n * The elapsed time is measured with [MonoClock].\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic inline fun <T> measureTimedValue(block: () -> T): TimedValue<T> {\r\n contract {\r\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\r\n }\r\n\r\n return MonoClock.measureTimedValue(block)\r\n}\r\n\r\n\r\n/**\r\n * Executes the given [block] and returns an instance of [TimedValue] class, containing both\r\n * the result of function execution and the duration of elapsed time interval.\r\n *\r\n * The elapsed time is measured with the specified `this` [Clock] instance.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic inline fun <T> Clock.measureTimedValue(block: () -> T): TimedValue<T> {\r\n contract {\r\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\r\n }\r\n\r\n val mark = markNow()\r\n val result = block()\r\n return TimedValue(result, mark.elapsedNow())\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin\r\n\r\nimport kotlin.internal.InlineOnly\r\n\r\n\r\n/**\r\n * Returns a hash code value for the object or zero if the object is `null`.\r\n *\r\n * @see Any.hashCode\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@InlineOnly\r\npublic inline fun Any?.hashCode(): Int = this?.hashCode() ?: 0\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin\r\n\r\n/**\r\n * Represents a version of the Kotlin standard library.\r\n *\r\n * [major], [minor] and [patch] are integer components of a version,\r\n * they must be non-negative and not greater than 255 ([MAX_COMPONENT_VALUE]).\r\n *\r\n * @constructor Creates a version from all three components.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic class KotlinVersion(val major: Int, val minor: Int, val patch: Int) : Comparable<KotlinVersion> {\r\n /**\r\n * Creates a version from [major] and [minor] components, leaving [patch] component zero.\r\n */\r\n public constructor(major: Int, minor: Int) : this(major, minor, 0)\r\n\r\n\r\n private val version = versionOf(major, minor, patch)\r\n\r\n\r\n private fun versionOf(major: Int, minor: Int, patch: Int): Int {\r\n require(major in 0..MAX_COMPONENT_VALUE && minor in 0..MAX_COMPONENT_VALUE && patch in 0..MAX_COMPONENT_VALUE) {\r\n \"Version components are out of range: $major.$minor.$patch\"\r\n }\r\n return major.shl(16) + minor.shl(8) + patch\r\n }\r\n\r\n\r\n /**\r\n * Returns the string representation of this version\r\n */\r\n override fun toString(): String = \"$major.$minor.$patch\"\r\n\r\n\r\n override fun equals(other: Any?): Boolean {\r\n if (this === other) return true\r\n val otherVersion = (other as? KotlinVersion) ?: return false\r\n return this.version == otherVersion.version\r\n }\r\n\r\n\r\n override fun hashCode(): Int = version\r\n\r\n\r\n override fun compareTo(other: KotlinVersion): Int = version - other.version\r\n\r\n\r\n /**\r\n * Returns `true` if this version is not less than the version specified\r\n * with the provided [major] and [minor] components.\r\n */\r\n public fun isAtLeast(major: Int, minor: Int): Boolean = // this.version >= versionOf(major, minor, 0)\r\n this.major > major || (this.major == major &&\r\n this.minor >= minor)\r\n\r\n\r\n /**\r\n * Returns `true` if this version is not less than the version specified\r\n * with the provided [major], [minor] and [patch] components.\r\n

*/\r\n public fun isAtLeast(major: Int, minor: Int, patch: Int): Boolean = // this.version >= versionOf(major, minor, patch)\r\n this.major > major || (this.major == major &&\r\n (this.minor > minor || this.minor == minor &&\r\n this.patch >= patch))\r\n\r\n companion object {\r\n /**\r\n * Maximum value a version component can have, a constant value 255.\r\n */\r\n // NOTE: Must be placed before CURRENT because its initialization requires this field being initialized in JS\r\n public const val MAX_COMPONENT_VALUE = 255\r\n\r\n /**\r\n * Returns the current version of the Kotlin standard library.\r\n */\r\n @kotlin.jvm.JvmField\r\n public val CURRENT: KotlinVersion = KotlinVersion(1, 3, 50) // value is written here automatically during build\r\n }\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmName(\"LateinitKt\")\r\n@file:Suppress(\"unused\")\r\n\r\npackage kotlin\r\n\r\nimport kotlin.internal.InlineOnly\r\nimport kotlin.internal.AccessibleLateinitPropertyLiteral\r\nimport kotlin.reflect.KProperty0\r\n\r\n/**\r\n * Returns `true` if this lateinit property has been assigned a value, and `false` otherwise.\r\n *\r\n * Cannot be used in an inline function, to avoid binary compatibility issues.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\ninline val @receiver:AccessibleLateinitPropertyLiteral KProperty0<*>.isInitialized: Boolean\r\n get() = throw NotImplementedError(\"Implementation is intrinsic\")\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmName(\"LazyKt\")\r\n@file:kotlin.jvm.JvmMultifileClass\r\n\r\npackage kotlin\r\n\r\nimport kotlin.reflect.KProperty\r\n\r\n/**\r\n * Represents a value with lazy initialization.\r\n *\r\n * To create an instance of [Lazy] use the [lazy] function.\r\n */\r\npublic interface Lazy<out T> {\r\n /**\r\n * Gets the lazily initialized value of the current Lazy instance.\r\n * Once the value was initialized it must not change during the rest of lifetime of this Lazy instance.\r\n */\r\n public val value: T\r\n\r\n /**\r\n * Returns `true` if a value for this Lazy instance has been already initialized, and `false` otherwise.\r\n * Once this function has returned `true` it stays `true` for the rest of lifetime of this Lazy instance.\r\n */\r\n public fun isInitialized(): Boolean\r\n}\r\n\r\n/**\r\n * Creates a new instance of the [Lazy] that is already initialized with the specified [value].\r\n */\r\npublic fun <T> lazyOf(value: T): Lazy<T> = InitializedLazyImpl(value)\r\n\r\n/**\r\n * An extension to delegate a read-only property of type [T] to an instance of [Lazy].\r\n *\r\n * This extension allows to use instances of Lazy for property delegation:\r\n * `val property: String by lazy { initializer }`\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <T> Lazy<T>.getValue(thisRef: Any?, property: KProperty<*>): T = value\r\n\r\n/**\r\n * Specifies how a [Lazy] instance synchronizes initialization among multiple threads.\r\n */\r\npublic enum class LazyThreadSafetyMode {\r\n\r\n /**\r\n * Locks are used to ensure that only a single thread can initialize the [Lazy] instance.\r\n */\r\n SYNCHRONIZED,\r\n\r\n /**\r\n * Initializer function can be called several times on concurrent access to uninitialized [Lazy] instance value,\r\n * but only the first returned value will be used as the value of [Lazy] instance.\r\n */\r\n PUBLICATION,\r\n\r\n /**\r\n * No locks are used to synchronize an access to the [Lazy] instance value; if the instance is accessed from multiple threads, its behavior is undefined.\r\n *\r\n * This mode should not be used unless the [Lazy] instance is guaranteed never to be initialized from more than one thread.\r\n */\r\n NONE,\r\n}\r\n\r\n\r\n\r\ninternal object UNINITIALIZED_VALUE\r\n\r\n// internal to be called from lazy in JS\r\ninternal class UnsafeLazyImpl<out T>(initializer: () -> T) : Lazy<T>, Serializable {\r\n private var initializer: (() -> T)? = initializer\r\n private var _value: Any? = UNINITIALIZED_VALUE\r\n\r\n override val value: T\r\n get() {\r\n if (_value === UNINITIALIZED_VALUE) {\r\n _value = initializer!!()\r\n initializer = null\r\n }\r\n @Suppress(\"UNCHECKED_CAST\")\r\n return _value as T\r\n }\r\n\r\n override fun isInitialized(): Boolean = _value !== UNINITIALIZED_VALUE\r\n\r\n override fun toString(): String = if (isInitialized()) value.toString() else \"Lazy value not initialized yet.\"\r\n\r\n private fun writeReplace(): Any = InitializedLazyImpl(value)\r\n}\r\n\r\ninternal class InitializedLazyImpl<out T>(override val value: T) : Lazy<T>, Serializable {\r\n\r\n override fun isInitialized(): Boolean = true\r\n\r\n override fun toString(): String = value.toString()\r\n\r\n}\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language

contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"NumbersKt\")\r\npackage kotlin\r\n\r\n/**\r\n * Counts the number of set bits in the binary representation of this [Int] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic expect fun Int.countOneBits(): Int\r\n\r\n/**\r\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Int] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic expect fun Int.countLeadingZeroBits(): Int\r\n\r\n/**\r\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Int] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic expect fun Int.countTrailingZeroBits(): Int\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the most significant set bit of this [Int] number,\r\n * or zero, if this number is zero.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic expect fun Int.takeHighestOneBit(): Int\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the least significant set bit of this [Int] number,\r\n * or zero, if this number is zero.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic expect fun Int.takeLowestOneBit(): Int\r\n\r\n/**\r\n * Rotates the binary representation of this [Int] number left by the specified [bitCount] number of bits.\r\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\r\n *\r\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\r\n * `number.rotateLeft(-n) == number.rotateRight(n)`\r\n *\r\n * Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally\r\n * `number.rotateLeft(n) == number.rotateLeft(n % 32)`\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic expect fun Int.rotateLeft(bitCount: Int): Int\r\n\r\n\r\n/**\r\n * Rotates the binary representation of this [Int] number right by the specified [bitCount] number of bits.\r\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\r\n *\r\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\r\n * `number.rotateRight(-n) == number.rotateLeft(n)`\r\n *\r\n * Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally\r\n * `number.rotateRight(n) == number.rotateRight(n % 32)`\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic expect fun Int.rotateRight(bitCount: Int): Int\r\n\r\n\r\n/**\r\n * Counts the number of set bits in the binary representation of this [Long] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic expect fun Long.countOneBits(): Int\r\n\r\n/**\r\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Long] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic expect fun Long.countLeadingZeroBits(): Int\r\n\r\n/**\r\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Long] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic expect fun Long.countTrailingZeroBits(): Int\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the most significant set bit of this [Long] number,\r\n * or zero, if this number is zero.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic expect fun Long.takeHighestOneBit(): Long\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the least significant set bit of this [Long] number,\r\n * or zero, if this number is zero.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic expect fun Long.takeLowestOneBit(): Long\r\n\r\n/**\r\n * Rotates the binary representation of this [Long] number left by the specified [bitCount] number of bits.\r\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\r\n *\r\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\r\n * `number.rotateLeft(-n) == number.rotateRight(n)`\r\n *\r\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally\r\n * `number.rotateLeft(n) == number.rotateLeft(n % 64)`\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic expect fun Long.rotateLeft(bitCount: Int): Long\r\n\r\n/**\r\n * Rotates the binary representation of this [Long] number right

by the specified [bitCount] number of bits.\r\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\r\n *\r\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\r\n * `number.rotateRight(-n) == number.rotateLeft(n)`\r\n *\r\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally\r\n * `number.rotateRight(n) == number.rotateRight(n % 64)`\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic expect fun Long.rotateRight(bitCount: Int): Long\r\n\r\n/**\r\n * Counts the number of set bits in the binary representation of this [Byte] number.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Byte.countOneBits(): Int = (toInt() and 0xFF).countOneBits()\r\n\r\n/**\r\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Byte] number.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Byte.countLeadingZeroBits(): Int = (toInt() and 0xFF).countLeadingZeroBits() - (Int.SIZE_BITS - Byte.SIZE_BITS)\r\n\r\n/**\r\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Byte] number.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Byte.countTrailingZeroBits(): Int = (toInt() or 0x100).countTrailingZeroBits()\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the most significant set bit of this [Byte] number,\r\n * or zero, if this number is zero.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Byte.takeHighestOneBit(): Byte = (toInt() and 0xFF).takeHighestOneBit().toByte()\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the least significant set bit of this [Byte] number,\r\n * or zero, if this number is zero.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Byte.takeLowestOneBit(): Byte = toInt().takeLowestOneBit().toByte()\r\n\r\n\r\n/**\r\n * Rotates the binary representation of this [Byte] number left by the specified [bitCount] number of bits.\r\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\r\n *\r\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\r\n * `number.rotateLeft(-n) == number.rotateRight(n)`\r\n *\r\n * Rotating by a multiple of [Byte.SIZE_BITS] (8) returns the same number, or more generally\r\n * `number.rotateLeft(n) == number.rotateLeft(n % 8)`\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic fun Byte.rotateLeft(bitCount: Int): Byte =\r\n (toInt().shl(bitCount and 7) or (toInt() and 0xFF).ushr(8 - (bitCount and 7))).toByte()\r\n\r\n/**\r\n * Rotates the binary representation of this [Byte] number right by the specified [bitCount] number of bits.\r\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\r\n *\r\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\r\n * `number.rotateRight(-n) == number.rotateLeft(n)`\r\n *\r\n * Rotating by a multiple of [Byte.SIZE_BITS] (8) returns the same number, or more generally\r\n * `number.rotateRight(n) == number.rotateRight(n % 8)`\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic fun Byte.rotateRight(bitCount: Int): Byte =\r\n (toInt().shl(8 - (bitCount and 7)) or (toInt() and 0xFF).ushr(bitCount and 7)).toByte()\r\n\r\n/**\r\n * Counts the number of set bits in the binary representation of this [Short] number.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Short.countOneBits(): Int = (toInt() and 0xFFFF).countOneBits()\r\n\r\n/**\r\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Short] number.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Short.countLeadingZeroBits(): Int =\r\n (toInt() and 0xFFFF).countLeadingZeroBits() - (Int.SIZE_BITS - Short.SIZE_BITS)\r\n\r\n/**\r\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Short] number.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Short.countTrailingZeroBits(): Int = (toInt() or 0x10000).countTrailingZeroBits()\r\n\r\n/**\r\n * Returns a number

having a single bit set in the position of the most significant set bit of this [Short] number,\r\n * or zero, if this number is zero.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Short.takeHighestOneBit(): Short = (toInt() and 0xFFFF).takeHighestOneBit().toShort()\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the least significant set bit of this [Short] number,\r\n * or zero, if this number is zero.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Short.takeLowestOneBit(): Short = toInt().takeLowestOneBit().toShort()\r\n\r\n/**\r\n * Rotates the binary representation of this [Short] number left by the specified [bitCount] number of bits.\r\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\r\n *\r\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\r\n * `number.rotateLeft(-n) == number.rotateRight(n)`\r\n *\r\n * Rotating by a multiple of [Short.SIZE_BITS] (16) returns the same number, or more generally\r\n * `number.rotateLeft(n) == number.rotateLeft(n % 16)`\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic fun Short.rotateLeft(bitCount: Int): Short =\r\n (toInt().shl(bitCount and 15) or (toInt() and 0xFFFF).ushr(16 - (bitCount and 15))).toShort()\r\n\r\n/**\r\n * Rotates the binary representation of this [Short] number right by the specified [bitCount] number of bits.\r\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\r\n *\r\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\r\n * `number.rotateRight(-n) == number.rotateLeft(n)`\r\n *\r\n * Rotating by a multiple of [Short.SIZE_BITS] (16) returns the same number, or more generally\r\n * `number.rotateRight(n) == number.rotateRight(n % 16)`\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic fun Short.rotateRight(bitCount: Int): Short =\r\n (toInt().shl(16 - (bitCount and 15)) or (toInt() and 0xFFFF).ushr(bitCount and 15)).toShort()\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin\r\nimport kotlin.internal.RequireKotlin\r\nimport kotlin.internal.RequireKotlinVersionKind\r\n\r\n@kotlin.internal.InlineOnly\r\n@SinceKotlin(\"1.2\")\r\n@Suppress(\"INVISIBLE_MEMBER\", \"INVISIBLE_REFERENCE\")\r\n@RequireKotlin(\"1.2.30\", level = DeprecationLevel.HIDDEN, versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\r\npublic inline fun <R> suspend(noinline block: suspend () -> R): suspend () -> R = block\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n
*/\r\n\r\n@file:kotlin.jvm.JvmName(\"TuplesKt\")\r\n\r\npackage kotlin\r\n\r\n\r\n/**\r\n * Represents a generic pair of two values.\r\n *\r\n * There is no meaning attached to values in this class, it can be used for any purpose.\r\n * Pair exhibits value semantics, i.e. two pairs are equal if both components are equal.\r\n *\r\n * An example of decomposing it into values:\r\n * @sample samples.misc.Tuples.pairDestructuring\r\n *\r\n * @param A type of the first value.\r\n * @param B type of the second value.\r\n * @property first First value.\r\n * @property second Second value.\r\n * @constructor Creates a new instance of Pair.\r\n */\r\npublic data class Pair<out A, out B>(\r\n public val first: A,\r\n public val second: B\r\n) : Serializable {\r\n\r\n /**\r\n * Returns string representation of the [Pair] including its [first] and [second] values.\r\n */\r\n public override fun toString(): String = \"($first, $second)\"\r\n}\r\n\r\n/**\r\n * Creates a tuple of type [Pair] from this and [that].\r\n *\r\n * This can be useful for creating [Map] literals with less noise, for example:\r\n * @sample samples.collections.Maps.Instantiation.mapFromPairs\r\n */\r\npublic infix fun <A, B> A.to(that: B): Pair<A, B> = Pair(this, that)\r\n\r\n/**\r\n * Converts this pair into a list.\r\n * @sample samples.misc.Tuples.pairToList\r\n */\r\npublic fun <T> Pair<T, T>.toList(): List<T> = listOf(first, second)\r\n\r\n/**\r\n * Represents a triad of values\r\n *\r\n * There is no meaning attached to values in this class, it can be used for any purpose.\r\n * Triple exhibits value semantics, i.e. two triples are equal if all three components are equal.\r\n * An example of decomposing it into values:\r\n * @sample samples.misc.Tuples.tripleDestructuring\r\n *\r\n * @param A type of the first value.\r\n * @param B type of the second value.\r\n * @param C type of the third value.\r\n * @property

first First value.\r\n * @property second Second value.\r\n * @property third Third value.\r\n */\r\npublic data class Triple<out A, out B, out C>(\r\n   public val first: A,\r\n   public val second: B,\r\n   public val third: C\r\n) : Serializable {\r\n\r\n   /**\r\n   * Returns string representation of the [Triple] including its [first], [second] and [third] values.\r\n   */\r\n   public override fun toString(): String = \"($first, $second, $third)\"\r\n}\r\n\r\n/**\r\n * Converts this triple into a list.\r\n * @sample samples.misc.Tuples.tripleToList\r\n */\r\npublic fun <T> Triple<T, T, T>.toList(): List<T> = listOf(first, second, third)\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\r\npackage kotlin\r\n\r\nimport kotlin.annotation.AnnotationTarget.*\r\nimport kotlin.internal.RequireKotlin\r\nimport kotlin.internal.RequireKotlinVersionKind\r\n\r\n/**\r\n * Marks the API that is dependent on the experimental unsigned types, including those types themselves.\r\n *\r\n * Usages of such API will be reported as warnings unless an explicit opt-in with\r\n * the [UseExperimental] annotation, e.g. `@UseExperimental(ExperimentalUnsignedTypes::class)`,\r\n * or with the `-Xuse-experimental=kotlin.ExperimentalUnsignedTypes` compiler option is given.\r\n *\r\n * It's recommended to propagate the experimental status to the API that depends on unsigned types by annotating it with this annotation.\r\n */\r\n@Experimental(level = Experimental.Level.WARNING)\r\n@MustBeDocumented\r\n@Target(CLASS, ANNOTATION_CLASS, PROPERTY, FIELD, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER, TYPEALIAS)\r\n@Retention(AnnotationRetention.BINARY)\r\n@RequireKotlin(\"1.2.50\", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\r\npublic annotation class ExperimentalUnsignedTypes\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// Auto-generated file. DO NOT EDIT!\r\n\r\npackage kotlin.ranges\r\n\r\n\r\n\r\nimport kotlin.internal.*\r\n\r\n/**\r\n * A range of values of type `UInt`.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic class UIntRange(start: UInt, endInclusive: UInt) : UIntProgression(start, endInclusive, 1), ClosedRange<UInt> {\r\n   override val start: UInt get() = first\r\n   override val endInclusive: UInt get() = last\r\n\r\n   override fun contains(value: UInt): Boolean = first <= value && value <= last\r\n\r\n   override fun isEmpty(): Boolean = first > last\r\n\r\n   override fun equals(other: Any?): Boolean =\r\n   other is UIntRange && (isEmpty() && other.isEmpty() ||\r\n   first == other.first && last == other.last)\r\n\r\n   override fun hashCode(): Int =\r\n   if (isEmpty()) -1 else (31 * first.toInt() + last.toInt())\r\n\r\n   override fun toString(): String = \"$first..$last\"\r\n\r\n   companion object {\r\n   /** An empty range of values of type UInt. */\r\n   public val EMPTY: UIntRange = UIntRange(UInt.MAX_VALUE, UInt.MIN_VALUE)\r\n   }\r\n}\r\n\r\n/**\r\n * A progression of values of type `UInt`.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic open class UIntProgression\r\ninternal constructor(\r\n   start: UInt,\r\n   endInclusive: UInt,\r\n   step: Int\r\n) : Iterable<UInt> {\r\n   init {\r\n   if (step == 0.toInt()) throw kotlin.IllegalArgumentException(\"Step must be non-zero.\")\r\n   if (step == Int.MIN_VALUE) throw kotlin.IllegalArgumentException(\"Step must be greater than Int.MIN_VALUE to avoid overflow on negation.\")\r\n   }\r\n\r\n   /**\r\n   * The first element in the progression.\r\n   */\r\n   public val first: UInt = start\r\n\r\n   /**\r\n   * The last element in the progression.\r\n   */\r\n   public val last: UInt = getProgressionLastElement(start, endInclusive, step)\r\n\r\n   /**\r\n   * The step of the progression.\r\n   */\r\n   public val step: Int = step\r\n\r\n   override fun iterator(): UIntIterator = UIntProgressionIterator(first, last, step)\r\n\r\n   /** Checks if the progression is empty. */\r\n   public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\r\n\r\n   override fun equals(other: Any?): Boolean =\r\n   other is UIntProgression && (isEmpty() && other.isEmpty() ||\r\n   first == other.first && last == other.last && step == other.step)\r\n\r\n   override fun hashCode(): Int =\r\n   if (isEmpty()) -1 else (31 * (31 * first.toInt() + last.toInt()) + step.toInt())\r\n\r\n   override fun toString(): String = if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step ${-step}\"\r\n\r\n   companion object {\r\n   /**\r\n   * Creates UIntProgression

within the specified bounds of a closed range.\r\n\r\n * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\r\n * In order to go backwards the [step] must be negative.\r\n *\r\n * [step] must be greater than `Int.MIN_VALUE` and not equal to zero.\r\n */\r\n public fun fromClosedRange(rangeStart: UInt, rangeEnd: UInt, step: Int): UIntProgression = UIntProgression(rangeStart, rangeEnd, step)\r\n }\r\n}\r\n\r\n\r\n/**\r\n * An iterator over a progression of values of type `UInt`.\r\n * @property step the number by which the value is incremented on each step.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\nprivate class UIntProgressionIterator(first: UInt, last: UInt, step: Int) : UIntIterator() {\r\n private val finalElement = last\r\n private var hasNext: Boolean = if (step > 0) first <= last else first >= last\r\n private val step = step.toUInt() // use 2-complement math for negative steps\r\n private var next = if (hasNext) first else finalElement\r\n\r\n override fun hasNext(): Boolean = hasNext\r\n\r\n override fun nextUInt(): UInt {\r\n val value = next\r\n if (value == finalElement) {\r\n if (!hasNext) throw kotlin.NoSuchElementException()\r\n hasNext = false\r\n } else {\r\n next += step\r\n }\r\n return value\r\n }\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// Auto-generated file. DO NOT EDIT!\r\n\r\npackage kotlin.collections\r\n\r\n/** An iterator over a sequence of values of type `UByte`. */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic abstract class UByteIterator : Iterator<UByte> {\r\n override final fun next() = nextUByte()\r\n\r\n /** Returns the next value in the sequence without boxing. */\r\n public abstract fun nextUByte(): UByte\r\n}\r\n\r\n/** An iterator over a sequence of values of type `UShort`. */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic abstract class UShortIterator : Iterator<UShort> {\r\n override final fun next() = nextUShort()\r\n\r\n /** Returns the next value in the sequence without boxing. */\r\n public abstract fun nextUShort(): UShort\r\n}\r\n\r\n/** An iterator over a sequence of values of type `UInt`. */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic abstract class UIntIterator : Iterator<UInt> {\r\n override final fun next() = nextUInt()\r\n\r\n /** Returns the next value in the sequence without boxing. */\r\n public abstract fun nextUInt(): UInt\r\n}\r\n\r\n/** An iterator over a sequence of values of type `ULong`. */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic abstract class ULongIterator : Iterator<ULong> {\r\n override final fun next() = nextULong()\r\n\r\n /** Returns the next value in the sequence without boxing. */\r\n public abstract fun nextULong(): ULong\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// Auto-generated file. DO NOT EDIT!\r\n\r\npackage kotlin.ranges\r\n\r\n\r\n\r\nimport kotlin.internal.*\r\n\r\n/**\r\n * A range of values of type `ULong`.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic class ULongRange(start: ULong, endInclusive: ULong) : ULongProgression(start, endInclusive, 1), ClosedRange<ULong> {\r\n override val start: ULong get() = first\r\n override val endInclusive: ULong get() = last\r\n\r\n override fun contains(value: ULong): Boolean = first <= value && value <= last\r\n\r\n override fun isEmpty(): Boolean = first > last\r\n\r\n override fun equals(other: Any?): Boolean =\r\n other is ULongRange && (isEmpty() && other.isEmpty() ||\r\n first == other.first && last == other.last)\r\n\r\n override fun hashCode(): Int =\r\n if (isEmpty()) -1 else (31 * (first xor (first shr 32)).toInt() + (last xor (last shr 32)).toInt())\r\n\r\n override fun toString(): String = \"$first..$last\"\r\n\r\n companion object {\r\n /** An empty range of values of type ULong. */\r\n public val EMPTY: ULongRange = ULongRange(ULong.MAX_VALUE, ULong.MIN_VALUE)\r\n }\r\n}\r\n\r\n/**\r\n * A progression of values of type `ULong`.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic open class ULongProgression\r\ninternal constructor(\r\n start: ULong,\r\n endInclusive: ULong,\r\n step: Long\r\n) : Iterable<ULong> {\r\n init {\r\n if (step == 0.toLong()) throw kotlin.IllegalArgumentException(\"Step must be non-zero.\")\r\n if (step == Long.MIN_VALUE) throw kotlin.IllegalArgumentException(\"Step must be greater than Long.MIN_VALUE to avoid overflow on negation.\")\r\n }\r\n\r\n /**\r\n * The first element in the progression.\r\n */\r\n public val first: ULong = start\r\n\r\n /**\r\n * The last element in the progression.\r\n */\r\n public val last: ULong = getProgressionLastElement(start, endInclusive, step)\r\n\r\n

/**\r\n * The step of the progression.\r\n */\r\n public val step: Long = step\r\n\r\n override fun iterator(): ULongIterator = ULongProgressionIterator(first, last, step)\r\n\r\n /** Checks if the progression is empty. */\r\n public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\r\n\r\n override fun equals(other: Any?): Boolean =\r\n other is ULongProgression && (isEmpty() && other.isEmpty() ||\r\n first == other.first && last == other.last && step == other.step)\r\n\r\n override fun hashCode(): Int =\r\n if (isEmpty()) -1 else (31 * (31 * (first xor (first shr 32)).toInt() + (last xor (last shr 32)).toInt()) + (step xor (step ushr 32)).toInt())\r\n\r\n override fun toString(): String = if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step ${-step}\"\r\n\r\n companion object {\r\n /**\r\n * Creates ULongProgression within the specified bounds of a closed range.\r\n\r\n * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\r\n * In order to go backwards the [step] must be negative.\r\n *\r\n * [step] must be greater than `Long.MIN_VALUE` and not equal to zero.\r\n */\r\n public fun fromClosedRange(rangeStart: ULong, rangeEnd: ULong, step: Long): ULongProgression = ULongProgression(rangeStart, rangeEnd, step)\r\n }\r\n}\r\n\r\n\r\n/**\r\n * An iterator over a progression of values of type `ULong`.\r\n * @property step the number by which the value is incremented on each step.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\nprivate class ULongProgressionIterator(first: ULong, last: ULong, step: Long) : ULongIterator() {\r\n private val finalElement = last\r\n private var hasNext: Boolean = if (step > 0) first <= last else first >= last\r\n private val step = step.toULong() // use 2-complement math for negative steps\r\n private var next = if (hasNext) first else finalElement\r\n\r\n override fun hasNext(): Boolean = hasNext\r\n\r\n override fun nextULong(): ULong {\r\n val value = next\r\n if (value == finalElement) {\r\n if (!hasNext) throw kotlin.NoSuchElementException()\r\n hasNext = false\r\n } else {\r\n next += step\r\n }\r\n return value\r\n }\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.math\r\n\r\n/**\r\n * Returns the smaller of two values.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun min(a: UInt, b: UInt): UInt {\r\n return minOf(a, b)\r\n}\r\n\r\n/**\r\n * Returns the smaller of two values.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun min(a: ULong, b: ULong): ULong {\r\n return minOf(a, b)\r\n}\r\n\r\n/**\r\n * Returns the greater of two values.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun max(a: UInt, b: UInt): UInt {\r\n return maxOf(a, b)\r\n}\r\n\r\n/**\r\n * Returns the greater of two values.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun max(a: ULong, b: ULong): ULong {\r\n return maxOf(a, b)\r\n}","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\n@file:kotlin.jvm.JvmName(\"UNumbersKt\")\r\npackage kotlin\r\n\r\n/**\r\n * Counts the number of set bits in the binary representation of this [UInt] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UInt.countOneBits(): Int = toInt().countOneBits()\r\n\r\n/**\r\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [UInt] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UInt.countLeadingZeroBits(): Int = toInt().countLeadingZeroBits()\r\n\r\n/**\r\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [UInt] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UInt.countTrailingZeroBits(): Int = toInt().countTrailingZeroBits()\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the most significant set bit of this [UInt] number,\r\n * or zero, if this number is zero.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.Inli

neOnly\r\npublic inline fun UInt.takeHighestOneBit(): UInt = toInt().takeHighestOneBit().toUInt()\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the least significant set bit of this [UInt] number,\r\n * or zero, if this number is zero.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UInt.takeLowestOneBit(): UInt = toInt().takeLowestOneBit().toUInt()\r\n\r\n/**\r\n * Rotates the binary representation of this [UInt] number left by the specified [bitCount] number of bits.\r\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\r\n *\r\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\r\n * `number.rotateLeft(-n) == number.rotateRight(n)`\r\n *\r\n * Rotating by a multiple of [UInt.SIZE_BITS] (32) returns the same number, or more generally\r\n * `number.rotateLeft(n) == number.rotateLeft(n % 32)`\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UInt.rotateLeft(bitCount: Int): UInt = toInt().rotateLeft(bitCount).toUInt()\r\n\r\n\r\n\r\n/**\r\n * Rotates the binary representation of this [UInt] number right by the specified [bitCount] number of bits.\r\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\r\n *\r\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\r\n * `number.rotateRight(-n) == number.rotateLeft(n)`\r\n *\r\n * Rotating by a multiple of [UInt.SIZE_BITS] (32) returns the same number, or more generally\r\n * `number.rotateRight(n) == number.rotateRight(n % 32)`\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UInt.rotateRight(bitCount: Int): UInt = toInt().rotateRight(bitCount).toUInt()\r\n\r\n\r\n\r\n/**\r\n * Counts the number of set bits in the binary representation of this [ULong] number.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ULong.countOneBits(): Int = toLong().countOneBits()\r\n\r\n/**\r\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [ULong] number.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ULong.countLeadingZeroBits(): Int = toLong().countLeadingZeroBits()\r\n\r\n/**\r\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [ULong] number.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ULong.countTrailingZeroBits(): Int = toLong().countTrailingZeroBits()\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the most significant set bit of this [ULong] number,\r\n * or zero, if this number is zero.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ULong.takeHighestOneBit(): ULong = toLong().takeHighestOneBit().toULong()\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the least significant set bit of this [ULong] number,\r\n * or zero, if this number is zero.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ULong.takeLowestOneBit(): ULong = toLong().takeLowestOneBit().toULong()\r\n\r\n/**\r\n * Rotates the binary representation of this [ULong] number left by the specified [bitCount] number of bits.\r\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\r\n *\r\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\r\n * `number.rotateLeft(-n) == number.rotateRight(n)`\r\n *\r\n * Rotating by a multiple of [ULong.SIZE_BITS] (64) returns the same number, or more generally\r\n * `number.rotateLeft(n) == number.rotateLeft(n % 64)`\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ULong.rotateLeft(bitCount: Int): ULong =

toLong().rotateLeft(bitCount).toULong()\r\n\r\n/**\r\n * Rotates the binary representation of this [ULong] number right by the specified [bitCount] number of bits.\r\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\r\n *\r\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\r\n * `number.rotateRight(-n) == number.rotateLeft(n)`\r\n *\r\n * Rotating by a multiple of [ULong.SIZE_BITS] (64) returns the same number, or more generally\r\n * `number.rotateRight(n) == number.rotateRight(n % 64)`\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ULong.rotateRight(bitCount: Int): ULong = toLong().rotateRight(bitCount).toULong()\r\n\r\n/**\r\n * Counts the number of set bits in the binary representation of this [UByte] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UByte.countOneBits(): Int = toUInt().countOneBits()\r\n\r\n/**\r\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [UByte] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UByte.countLeadingZeroBits(): Int = toByte().countLeadingZeroBits()\r\n\r\n/**\r\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [UByte] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UByte.countTrailingZeroBits(): Int = toByte().countTrailingZeroBits()\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the most significant set bit of this [UByte] number,\r\n * or zero, if this number is zero.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UByte.takeHighestOneBit(): UByte = toInt().takeHighestOneBit().toUByte()\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the least significant set bit of this [UByte] number,\r\n * or zero, if this number is zero.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UByte.takeLowestOneBit(): UByte = toInt().takeLowestOneBit().toUByte()\r\n\r\n\r\n/**\r\n * Rotates the binary representation of this [UByte] number left by the specified [bitCount] number of bits.\r\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\r\n *\r\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\r\n * `number.rotateLeft(-n) == number.rotateRight(n)`\r\n *\r\n * Rotating by a multiple of [UByte.SIZE_BITS] (8) returns the same number, or more generally\r\n * `number.rotateLeft(n) == number.rotateLeft(n % 8)`\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UByte.rotateLeft(bitCount: Int): UByte = toByte().rotateLeft(bitCount).toUByte()\r\n\r\n/**\r\n * Rotates the binary representation of this [UByte] number right by the specified [bitCount] number of bits.\r\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\r\n *\r\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\r\n * `number.rotateRight(-n) == number.rotateLeft(n)`\r\n *\r\n * Rotating by a multiple of [UByte.SIZE_BITS] (8) returns the same number, or more generally\r\n * `number.rotateRight(n) == number.rotateRight(n % 8)`\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UByte.rotateRight(bitCount: Int): UByte = toByte().rotateRight(bitCount).toUByte()\r\n\r\n/**\r\n * Counts the number of set bits in the binary representation of this [UShort] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UShort.countOneBits(): Int = toUInt().countOneBits()\r\n\r\n/**\r\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [UShort] number.\r\n

*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UShort.countLeadingZeroBits(): Int = toShort().countLeadingZeroBits()\r\n\r\n/**\r\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [UShort] number.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UShort.countTrailingZeroBits(): Int = toShort().countTrailingZeroBits()\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the most significant set bit of this [UShort] number,\r\n * or zero, if this number is zero.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UShort.takeHighestOneBit(): UShort = toInt().takeHighestOneBit().toUShort()\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the least significant set bit of this [UShort] number,\r\n * or zero, if this number is zero.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UShort.takeLowestOneBit(): UShort = toInt().takeLowestOneBit().toUShort()\r\n\r\n\r\n/**\r\n * Rotates the binary representation of this [UShort] number left by the specified [bitCount] number of bits.\r\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\r\n *\r\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\r\n * `number.rotateLeft(-n) == number.rotateRight(n)`\r\n *\r\n * Rotating by a multiple of [UShort.SIZE_BITS] (16) returns the same number, or more generally\r\n * `number.rotateLeft(n) == number.rotateLeft(n % 16)`\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UShort.rotateLeft(bitCount: Int): UShort = toShort().rotateLeft(bitCount).toUShort()\r\n\r\n\r\n/**\r\n * Rotates the binary representation of this [UShort] number right by the specified [bitCount] number of bits.\r\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\r\n *\r\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\r\n * `number.rotateRight(-n) == number.rotateLeft(n)`\r\n *\r\n * Rotating by a multiple of [UShort.SIZE_BITS] (16) returns the same number, or more generally\r\n * `number.rotateRight(n) == number.rotateRight(n % 16)`\r\n
/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UShort.rotateRight(bitCount: Int): UShort = toShort().rotateRight(bitCount).toUShort()\r\n","/\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n
*/\r\n\r\n@file:UseExperimental(ExperimentalUnsignedTypes::class)\r\npackage kotlin.internal\r\n\r\n// (a - b) mod c\r\nprivate fun differenceModulo(a: UInt, b: UInt, c: UInt): UInt {\r\n   val ac = a % c\r\n   val bc = b % c\r\n   return if (ac >= bc) ac - bc else ac - bc + c\r\n}\r\n\r\nprivate fun differenceModulo(a: ULong, b: ULong, c: ULong): ULong {\r\n   val ac = a % c\r\n   val bc = b % c\r\n   return if (ac >= bc) ac - bc else ac - bc + c\r\n}\r\n\r\n/**\r\n * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range\r\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\r\n * [step].\r\n *\r\n * No validation on passed parameters is performed. The given parameters should satisfy the condition:\r\n *\r\n * - either `step > 0` and `start <= end`,\r\n * - or `step < 0` and `start >= end`.\r\n *\r\n * @param start first element of the progression\r\n * @param end ending bound for the progression\r\n * @param step increment, or difference of successive elements in the progression\r\n * @return the final element of the progression\r\n * @suppress\r\n */\r\n@PublishedApi\r\n@SinceKotlin(\"1.3\")\r\ninternal fun getProgressionLastElement(start: UInt, end: UInt, step: Int): UInt = when {\r\n   step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step.toUInt())\r\n   step < 0 -> if (start <= end) end else end + differenceModulo(start, end, (-step).toUInt())\r\n   else -> throw kotlin.IllegalArgumentException(\"Step is zero.\")\r\n}\r\n\r\n\r\n/**\r\n * Calculates the final element of a bounded arithmetic progression, i.e. the last element of

the progression which is in the range\r\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\r\n * [step].\r\n *\r\n * No validation on passed parameters is performed. The given parameters should satisfy the condition:\r\n *\r\n * - either `step > 0` and `start <= end`,\r\n * - or `step < 0` and `start >= end`.\r\n *\r\n * @param start first element of the progression\r\n * @param end ending bound for the progression\r\n * @param step increment, or difference of successive elements in the progression\r\n * @return the final element of the progression\r\n * @suppress\r\n */\r\n@PublishedApi\r\n@SinceKotlin(\"1.3\")\r\ninternal fun getProgressionLastElement(start: ULong, end: ULong, step: Long): ULong = when {\r\n   step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step.toULong())\r\n   step < 0 -> if (start <= end) end else end + differenceModulo(start, end, (-step).toULong())\r\n   else -> throw kotlin.IllegalArgumentException(\"Step is zero.\")\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmName(\"UStringsKt\") // string representation of unsigned numbers\r\n\r\npackage kotlin.text\r\n\r\n/**\r\n * Returns a string representation of this [Byte] value in the specified [radix].\r\n *\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n//@kotlin.internal.InlineOnly\r\npublic /*inline*/ fun UByte.toString(radix: Int): String = this.toInt().toString(radix)\r\n\r\n/**\r\n * Returns a string representation of this [Short] value in the specified [radix].\r\n *\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n//@kotlin.internal.InlineOnly\r\npublic /*inline*/ fun UShort.toString(radix: Int): String = this.toInt().toString(radix)\r\n\r\n\r\n/**\r\n * Returns a string representation of this [Int] value in the specified [radix].\r\n *\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n//@kotlin.internal.InlineOnly\r\npublic /*inline*/ fun UInt.toString(radix: Int): String = this.toLong().toString(radix)\r\n\r\n/**\r\n * Returns a string representation of this [Long] value in the specified [radix].\r\n *\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun ULong.toString(radix: Int): String = ulongToString(this.toLong(), checkRadix(radix))\r\n\r\n\r\n/**\r\n * Parses the string as a signed [UByte] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun String.toUByte(): UByte = toUByteOrNull() ?: numberFormatError(this)\r\n\r\n/**\r\n * Parses the string as a signed [UByte] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun String.toUByte(radix: Int): UByte = toUByteOrNull(radix) ?: numberFormatError(this)\r\n\r\n\r\n/**\r\n * Parses the string as a [UShort] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun String.toUShort(): UShort = toUShortOrNull() ?: numberFormatError(this)\r\n\r\n/**\r\n * Parses the string as a [UShort] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun String.toUShort(radix: Int): UShort = toUShortOrNull(radix) ?: numberFormatError(this)\r\n\r\n/**\r\n * Parses the string as an [UInt] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun String.toUInt(): UInt = toUIntOrNull() ?: numberFormatError(this)\r\n\r\n/**\r\n * Parses the string as an [UInt] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun String.toUInt(radix:

Int): UInt = toUIntOrNull(radix) ?: numberFormatError(this)\r\n\r\n/**\r\n * Parses the string as a [ULong] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun String.toULong(): ULong = toULongOrNull() ?: numberFormatError(this)\r\n\r\n/**\r\n * Parses the string as a [ULong] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun String.toULong(radix: Int): ULong = toULongOrNull(radix) ?: numberFormatError(this)\r\n\r\n\r\n\r\n\r\n\r\n\r\n/**\r\n * Parses the string as an [UByte] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun String.toUByteOrNull(): UByte? = toUByteOrNull(radix = 10)\r\n\r\n/**\r\n * Parses the string as an [UByte] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n *\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun String.toUByteOrNull(radix: Int): UByte? {\r\n val int = this.toUIntOrNull(radix) ?: return null\r\n if (int > UByte.MAX_VALUE) return null\r\n return int.toUByte()\r\n}\r\n\r\n/**\r\n * Parses the string as an [UShort] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun String.toUShortOrNull(): UShort? = toUShortOrNull(radix = 10)\r\n\r\n/**\r\n * Parses the string as an [UShort] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n *\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun String.toUShortOrNull(radix: Int): UShort? {\r\n val int = this.toUIntOrNull(radix) ?: return null\r\n if (int > UShort.MAX_VALUE) return null\r\n return int.toUShort()\r\n}\r\n\r\n/**\r\n * Parses the string as an [UInt] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun String.toUIntOrNull(): UInt? = toUIntOrNull(radix = 10)\r\n\r\n/**\r\n * Parses the string as an [UInt] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n *\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun String.toUIntOrNull(radix: Int): UInt? {\r\n checkRadix(radix)\r\n\r\n val length = this.length\r\n if (length == 0) return null\r\n\r\n val limit: UInt = UInt.MAX_VALUE\r\n val start: Int\r\n\r\n val firstChar = this[0]\r\n if (firstChar < '0') {\r\n if (length == 1 || firstChar != '+') return null\r\n start = 1\r\n } else {\r\n start = 0\r\n }\r\n\r\n val uradix = radix.toUInt()\r\n val limitBeforeMul = limit / uradix\r\n var result = 0u\r\n for (i in start until length) {\r\n val digit = digitOf(this[i], radix)\r\n\r\n if (digit < 0) return null\r\n if (result > limitBeforeMul) return null\r\n\r\n result *= uradix\r\n\r\n val beforeAdding = result\r\n result += digit.toUInt()\r\n if (result < beforeAdding) return null // overflow has happened\r\n }\r\n\r\n return result\r\n}\r\n\r\n/**\r\n * Parses the string as an [ULong] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun String.toULongOrNull(): ULong? = toULongOrNull(radix = 10)\r\n\r\n/**\r\n * Parses the string as an [ULong] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n *\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun String.toULongOrNull(radix: Int): ULong? {\r\n checkRadix(radix)\r\n\r\n val length = this.length\r\n if (length == 0) return null\r\n\r\n val limit: ULong = ULong.MAX_VALUE\r\n val start: Int\r\n\r\n val firstChar = this[0]\r\n if (firstChar < '0') {\r\n if (length == 1 || firstChar != '+') return null\r\n start = 1\r\n } else {\r\n start = 0\r\n }\r\n\r\n\r\n val uradix = radix.toUInt()\r\n val limitBeforeMul = limit / uradix\r\n var result = 0uL\r\n for (i in start until length) {\r\n val digit = digitOf(this[i], radix)\r\n\r\n if (digit < 0) return null\r\n if (result >

limitBeforeMul) return null\r\n\r\n result *= uradix\r\n\r\n val beforeAdding = result\r\n result += digit.toUInt()\r\n if (result < beforeAdding) return null // overflow has happened\r\n }\r\n\r\n return result\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"MathKt\")\r\n\r\n\r\npackage kotlin.math\r\n\r\n\r\n\r\n// constants, can't use them from nativeMath as they are not constants there\r\n\r\n/** Ratio of the circumference of a circle to its diameter, approximately 3.14159. */\r\n@SinceKotlin(\"1.2\")\r\npublic const val PI: Double = 3.141592653589793\r\n/** Base of the natural logarithms, approximately 2.71828. */\r\n@SinceKotlin(\"1.2\")\r\npublic const val E: Double = 2.718281828459045\r\n\r\n// region ================ Double Math ==\r\n\r\n/** Computes the sine of the angle [x] given in radians.\r\n *\r\n * Special cases:\r\n * - `sin(NaN|+Inf|-Inf)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun sin(x: Double): Double\r\n\r\n/** Computes the cosine of the angle [x] given in radians.\r\n *\r\n * Special cases:\r\n * - `cos(NaN|+Inf|-Inf)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun cos(x: Double): Double\r\n\r\n/** Computes the tangent of the angle [x] given in radians.\r\n *\r\n * Special cases:\r\n * - `tan(NaN|+Inf|-Inf)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun tan(x: Double): Double\r\n\r\n/**\r\n * Computes the arc sine of the value [x];\r\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\r\n *\r\n * Special cases:\r\n * - `asin(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun asin(x: Double): Double\r\n\r\n/**\r\n * Computes the arc cosine of the value [x];\r\n * the returned value is an angle in the range from `0.0` to `PI` radians.\r\n *\r\n * Special cases:\r\n * - `acos(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun acos(x: Double): Double\r\n\r\n/**\r\n * Computes the arc tangent of the value [x];\r\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\r\n *\r\n * Special cases:\r\n * - `atan(NaN)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun atan(x: Double): Double\r\n\r\n/**\r\n * Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond\r\n * to the rectangular coordinates `(x, y)` by computing the arc tangent of the value [y] / [x];\r\n * the returned value is an angle in the range from `-PI` to `PI` radians.\r\n *\r\n * Special cases:\r\n * - `atan2(0.0, 0.0)` is `0.0`\r\n * - `atan2(0.0, x)` is `0.0` for `x > 0` and `PI` for `x < 0`\r\n * - `atan2(-0.0, x)` is `-0.0` for 'x > 0` and `-PI` for `x < 0`\r\n * - `atan2(y, +Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for '-Inf < y < 0`\r\n * - `atan2(y, -Inf)` is `PI` for `0 < y < +Inf` and `-PI` for `-Inf < y < 0`\r\n * - `atan2(y, 0.0)` is `PI/2` for `y > 0` and `-PI/2` for `y < 0`\r\n * - `atan2(+Inf, x)` is `PI/2` for finite `x`y\r\n * - `atan2(-Inf, x)` is `-PI/2` for finite `x`\r\n * - `atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun atan2(y: Double, x: Double): Double\r\n\r\n/**\r\n * Computes the hyperbolic sine of the value [x].\r\n *\r\n * Special cases:\r\n * - `sinh(NaN)` is `NaN`\r\n * - `sinh(+Inf)` is `+Inf`\r\n * - `sinh(-Inf)` is `-Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun sinh(x: Double): Double\r\n\r\n/**\r\n * Computes the hyperbolic cosine of the value [x].\r\n *\r\n * Special cases:\r\n * - `cosh(NaN)` is `NaN`\r\n * - `cosh(+Inf|-Inf)` is `+Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun cosh(x: Double): Double\r\n\r\n/**\r\n * Computes the hyperbolic tangent of the value [x].\r\n *\r\n * Special cases:\r\n * - `tanh(NaN)` is `NaN`\r\n * - `tanh(+Inf)` is `1.0`\r\n * - `tanh(-Inf)` is `-1.0`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun tanh(x: Double): Double\r\n\r\n/**\r\n * Computes the inverse hyperbolic sine of the value [x].\r\n *\r\n * The returned value is `y` such that `sinh(y) == x`.\r\n *\r\n * Special cases:\r\n * - `asinh(NaN)` is `NaN`\r\n * - `asinh(+Inf)` is `+Inf`\r\n * - `asinh(-Inf)` is `-Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun asinh(x: Double): Double\r\n\r\n/**\r\n * Computes the inverse hyperbolic cosine of the value [x].\r\n *\r\n * The returned value is positive `y` such that `cosh(y) == x`.\r\n *\r\n * Special cases:\r\n * - `acosh(NaN)` is `NaN`\r\n * - `acosh(x)` is `NaN` when `x < 1`\r\n * - `acosh(+Inf)` is `+Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun acosh(x: Double): Double\r\n\r\n/**\r\n * Computes the inverse hyperbolic tangent of the value [x].\r\n *\r\n * The returned value is `y` such that `tanh(y) == x`.\r\n *\r\n * Special cases:\r\n * - `tanh(NaN)` is `NaN`\r\n * - `tanh(x)` is `NaN` when `x > 1` or `x < -1`\r\n * - `tanh(1.0)` is `+Inf`\r\n * - `tanh(-1.0)` is `-Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun atanh(x: Double): Double\r\n\r\n/**\r\n * Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow.\r\n *\r\n * Special

cases:\r\n *   - returns `+Inf` if any of arguments is infinite\r\n *   - returns `NaN` if any of arguments is `NaN` and the other is not infinite\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun hypot(x: Double, y: Double): Double\r\n\r\n/**\r\n * Computes the positive square root of the value [x].\r\n *\r\n * Special cases:\r\n *   - `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun sqrt(x: Double): Double\r\n\r\n/**\r\n * Computes Euler's number `e` raised to the power of the value [x].\r\n *\r\n * Special cases:\r\n *   - `exp(NaN)` is `NaN`\r\n *   - `exp(+Inf)` is `+Inf`\r\n *   - `exp(-Inf)` is `0.0`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun exp(x: Double): Double\r\n\r\n/**\r\n * Computes `exp(x) - 1`.\r\n *\r\n * This function can be implemented to produce more precise result for [x] near zero.\r\n *\r\n * Special cases:\r\n *   - `expm1(NaN)` is `NaN`\r\n *   - `expm1(+Inf)` is `+Inf`\r\n *   - `expm1(-Inf)` is `-1.0`\r\n *\r\n * @see [exp] function.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun expm1(x: Double): Double\r\n\r\n/**\r\n * Computes the logarithm of the value [x] to the given [base].\r\n *\r\n * Special cases:\r\n *   - `log(x, b)` is `NaN` if either `x` or `b` are `NaN`\r\n *   - `log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0`\r\n *   - `log(+Inf, +Inf)` is `NaN`\r\n *   - `log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1`\r\n *   - `log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1`\r\n *\r\n * See also logarithm functions for common fixed bases: [ln], [log10] and [log2].\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun log(x: Double, base: Double): Double\r\n\r\n/**\r\n * Computes the natural logarithm (base `E`) of the value [x].\r\n *\r\n * Special cases:\r\n *   - `ln(NaN)` is `NaN`\r\n *   - `ln(x)` is `NaN` when `x < 0.0`\r\n *   - `ln(+Inf)` is `+Inf`\r\n *   - `ln(0.0)` is `-Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun ln(x: Double): Double\r\n\r\n/**\r\n * Computes the common logarithm (base 10) of the value [x].\r\n *\r\n * @see [ln] function for special cases.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun log10(x: Double): Double\r\n\r\n/**\r\n * Computes the binary logarithm (base 2) of the value [x].\r\n *\r\n * @see [ln] function for special cases.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun log2(x: Double): Double\r\n\r\n/**\r\n * Computes `ln(x + 1)`.\r\n *\r\n * This function can be implemented to produce more precise result for [x] near zero.\r\n *\r\n * Special cases:\r\n *   - `ln1p(NaN)` is `NaN`\r\n *   - `ln1p(x)` is `NaN` where `x < -1.0`\r\n *   - `ln1p(-1.0)` is `-Inf`\r\n *   - `ln1p(+Inf)` is `+Inf`\r\n *\r\n * @see [ln] function\r\n * @see [expm1] function\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun ln1p(x: Double): Double\r\n\r\n/**\r\n * Rounds the given value [x] to an integer towards positive infinity.\r\n\r\n * @return the smallest double value that is greater than or equal to the given value [x] and is a mathematical integer.\r\n *\r\n * Special cases:\r\n *   - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun ceil(x: Double): Double\r\n\r\n/**\r\n * Rounds the given value [x] to an integer towards negative infinity.\r\n\r\n * @return the largest double value that is smaller than or equal to the given value [x] and is a mathematical integer.\r\n *\r\n * Special cases:\r\n *   - `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun floor(x: Double): Double\r\n\r\n/**\r\n * Rounds the given value [x] to an integer towards zero.\r\n *\r\n * @return the value [x] having its fractional part truncated.\r\n *\r\n * Special cases:\r\n *   - `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun truncate(x: Double): Double\r\n\r\n/**\r\n * Rounds the given value [x] towards the closest integer with ties rounded towards even integer.\r\n *\r\n * Special cases:\r\n *   - `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun round(x: Double): Double\r\n\r\n/**\r\n * Returns the absolute value of the given value [x].\r\n *\r\n * Special cases:\r\n *   - `abs(NaN)` is `NaN`\r\n *\r\n * @see absoluteValue extension property for [Double]\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun abs(x: Double): Double\r\n\r\n/**\r\n * Returns the sign of the given value [x]:\r\n *   - `-1.0` if the value is negative,\r\n *   - zero if the value is zero,\r\n *   - `1.0` if the value is positive\r\n *\r\n * Special case:\r\n *   - `sign(NaN)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun sign(x: Double): Double\r\n\r\n\r\n/**\r\n * Returns the smaller of two values.\r\n *\r\n * If either value is `NaN`, then the result is `NaN`.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun min(a: Double, b: Double): Double\r\n\r\n/**\r\n * Returns the greater of two values.\r\n *\r\n * If either value is `NaN`, then the result is `NaN`.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun max(a: Double, b: Double): Double\r\n\r\n//

extensions\r\n\r\n/**\r\n * Raises this value to the power [x].\r\n *\r\n * Special cases:\r\n * - `b.pow(0.0)` is `1.0`\r\n * - `b.pow(1.0) == b`\r\n * - `b.pow(NaN)` is `NaN`\r\n * - `NaN.pow(x)` is `NaN` for `x != 0.0`\r\n * - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\r\n * - `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun Double.pow(x: Double): Double\r\n\r\n/**\r\n * Raises this value to the integer power [n].\r\n *\r\n * See the other overload of [pow] for details.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun Double.pow(n: Int): Double\r\n\r\n/**\r\n * Returns the absolute value of this value.\r\n *\r\n * Special cases:\r\n * - `NaN.absoluteValue` is `NaN`\r\n *\r\n * @see abs function\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect val Double.absoluteValue: Double\r\n\r\n/**\r\n * Returns the sign of this value:\r\n * - `-1.0` if the value is negative,\r\n * - zero if the value is zero,\r\n * - `1.0` if the value is positive\r\n *\r\n * Special case:\r\n * - `NaN.sign` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect val Double.sign: Double\r\n\r\n/**\r\n * Returns this value with the sign bit same as of the [sign] value.\r\n *\r\n * If [sign] is `NaN` the sign of the result is undefined.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun Double.withSign(sign: Double): Double\r\n\r\n/**\r\n * Returns this value with the sign bit same as of the [sign] value.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun Double.withSign(sign: Int): Double\r\n\r\n/**\r\n * Returns the ulp (unit in the last place) of this value.\r\n *\r\n * An ulp is a positive distance between this value and the next nearest [Double] value larger in magnitude.\r\n *\r\n * Special Cases:\r\n * - `NaN.ulp` is `NaN`\r\n * - `x.ulp` is `+Inf` when `x` is `+Inf` or `-Inf`\r\n * - `0.0.ulp` is `Double.MIN_VALUE`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect val Double.ulp: Double\r\n\r\n/**\r\n * Returns the [Double] value nearest to this value in direction of positive infinity.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun Double.nextUp(): Double\r\n\r\n/**\r\n * Returns the [Double] value nearest to this value in direction of negative infinity.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun Double.nextDown(): Double\r\n\r\n/**\r\n * Returns the [Double] value nearest to this value in direction from this value towards the value [to].\r\n *\r\n * Special cases:\r\n * - `x.nextTowards(y)` is `NaN` if either `x` or `y` are `NaN`\r\n * - `x.nextTowards(x) == x`\r\n *\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun Double.nextTowards(to: Double): Double\r\n\r\n/**\r\n * Rounds this [Double] value to the nearest integer and converts the result to [Int].\r\n * Ties are rounded towards positive infinity.\r\n *\r\n * Special cases:\r\n * - `x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`\r\n * - `x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`\r\n *\r\n * @throws IllegalArgumentException when this value is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun Double.roundToInt(): Int\r\n\r\n/**\r\n * Rounds this [Double] value to the nearest integer and converts the result to [Long].\r\n * Ties are rounded towards positive infinity.\r\n *\r\n * Special cases:\r\n * - `x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`\r\n * - `x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE`\r\n *\r\n * @throws IllegalArgumentException when this value is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun Double.roundToLong(): Long\r\n\r\n// endregion\r\n\r\n\r\n\r\n// region ================ Float Math ======================================\r\n\r\n/** Computes the sine of the angle [x] given in radians.\r\n *\r\n * Special cases:\r\n * - `sin(NaN|+Inf|-Inf)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun sin(x: Float): Float\r\n\r\n/** Computes the cosine of the angle [x] given in radians.\r\n *\r\n * Special cases:\r\n * - `cos(NaN|+Inf|-Inf)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun cos(x: Float): Float\r\n\r\n/** Computes the tangent of the angle [x] given in radians.\r\n *\r\n * Special cases:\r\n * - `tan(NaN|+Inf|-Inf)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun tan(x: Float): Float\r\n\r\n/**\r\n * Computes the arc sine of the value [x];\r\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\r\n *\r\n * Special cases:\r\n * - `asin(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun asin(x: Float): Float\r\n\r\n/**\r\n * Computes the arc cosine of the value [x];\r\n * the returned value is an angle in the range from `0.0` to `PI` radians.\r\n *\r\n * Special cases:\r\n * - `acos(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun acos(x: Float): Float\r\n\r\n/**\r\n * Computes the arc tangent of the value [x];\r\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\r\n *\r\n * Special cases:\r\n * - `atan(NaN)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun atan(x: Float): Float\r\n\r\n/**\r\n * Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond\r\n * to the

rectangular coordinates `(x, y)` by computing the arc tangent of the value [y] / [x];\r\n * the returned value is an angle in the range from `-PI` to `PI` radians.\r\n *\r\n * Special cases:\r\n * - `atan2(0.0, 0.0)` is `0.0`\r\n * - `atan2(0.0, x)` is `0.0` for `x > 0` and `PI` for `x < 0`\r\n * - `atan2(-0.0, x)` is `-0.0` for 'x > 0` and `-PI` for `x < 0`\r\n *  - `atan2(y, +Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for '-Inf < y < 0`\r\n * - `atan2(y, -Inf)` is `PI` for `0 < y < +Inf` and `-PI` for `-Inf < y < 0`\r\n * - `atan2(y, 0.0)` is `PI/2` for `y > 0` and `-PI/2` for `y < 0`\r\n * - `atan2(+Inf, x)` is `PI/2` for finite `x`y\r\n * - `atan2(-Inf, x)` is `-PI/2` for finite `x`\r\n * - `atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun atan2(y: Float, x: Float): Float\r\n\r\n/**\r\n * Computes the hyperbolic sine of the value [x].\r\n *\r\n * Special cases:\r\n * - `sinh(NaN)` is `NaN`\r\n * - `sinh(+Inf)` is `+Inf`\r\n * - `sinh(-Inf)` is `-Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun sinh(x: Float): Float\r\n\r\n/**\r\n * Computes the hyperbolic cosine of the value [x].\r\n *\r\n * Special cases:\r\n * - `cosh(NaN)` is `NaN`\r\n * - `cosh(+Inf|-Inf)` is `+Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun cosh(x: Float): Float\r\n\r\n/**\r\n * Computes the hyperbolic tangent of the value [x].\r\n *\r\n * Special cases:\r\n * - `tanh(NaN)` is `NaN`\r\n * - `tanh(+Inf)` is `1.0`\r\n * - `tanh(-Inf)` is `-1.0`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun tanh(x: Float): Float\r\n\r\n/**\r\n * Computes the inverse hyperbolic sine of the value [x].\r\n *\r\n * The returned value is `y` such that `sinh(y) == x`.\r\n *\r\n * Special cases:\r\n * - `asinh(NaN)` is `NaN`\r\n * - `asinh(+Inf)` is `+Inf`\r\n * - `asinh(-Inf)` is `-Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun asinh(x: Float): Float\r\n\r\n/**\r\n * Computes the inverse hyperbolic cosine of the value [x].\r\n *\r\n * The returned value is positive `y` such that `cosh(y) == x`.\r\n *\r\n * Special cases:\r\n * - `acosh(NaN)` is `NaN`\r\n * - `acosh(x)` is `NaN` when `x < 1`\r\n * - `acosh(+Inf)` is `+Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun acosh(x: Float): Float\r\n\r\n/**\r\n * Computes the inverse hyperbolic tangent of the value [x].\r\n *\r\n * The returned value is `y` such that `tanh(y) == x`.\r\n *\r\n * Special cases:\r\n * - `tanh(NaN)` is `NaN`\r\n * - `tanh(x)` is `NaN` when `x > 1` or `x < -1`\r\n * - `tanh(1.0)` is `+Inf`\r\n * - `tanh(-1.0)` is `-Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun atanh(x: Float): Float\r\n\r\n/**\r\n * Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow.\r\n *\r\n * Special cases:\r\n * - returns `+Inf` if any of arguments is infinite\r\n * - returns `NaN` if any of arguments is `NaN` and the other is not infinite\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun hypot(x: Float, y: Float): Float\r\n\r\n/**\r\n * Computes the positive square root of the value [x].\r\n *\r\n * Special cases:\r\n * - `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun sqrt(x: Float): Float\r\n\r\n/**\r\n * Computes Euler's number `e` raised to the power of the value [x].\r\n *\r\n * Special cases:\r\n * - `exp(NaN)` is `NaN`\r\n * - `exp(+Inf)` is `+Inf`\r\n * - `exp(-Inf)` is `0.0`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun exp(x: Float): Float\r\n\r\n/**\r\n * Computes `exp(x) - 1`.\r\n *\r\n * This function can be implemented to produce more precise result for [x] near zero.\r\n *\r\n * Special cases:\r\n * - `expm1(NaN)` is `NaN`\r\n * - `expm1(+Inf)` is `+Inf`\r\n * - `expm1(-Inf)` is `-1.0`\r\n *\r\n * @see [exp] function.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun expm1(x: Float): Float\r\n\r\n/**\r\n * Computes the logarithm of the value [x] to the given [base].\r\n *\r\n * Special cases:\r\n * - `log(x, b)` is `NaN` if either `x` or `b` are `NaN`\r\n * - `log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0`\r\n * - `log(+Inf, +Inf)` is `NaN`\r\n * - `log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1`\r\n * - `log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1`\r\n *\r\n * See also logarithm functions for common fixed bases: [ln], [log10] and [log2].\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun log(x: Float, base: Float): Float\r\n\r\n/**\r\n * Computes the natural logarithm (base `E`) of the value [x].\r\n *\r\n * Special cases:\r\n * - `ln(NaN)` is `NaN`\r\n * - `ln(x)` is `NaN` when `x < 0.0`\r\n * - `ln(+Inf)` is `+Inf`\r\n * - `ln(0.0)` is `-Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun ln(x: Float): Float\r\n\r\n/**\r\n * Computes the common logarithm (base 10) of the value [x].\r\n *\r\n * @see [ln] function for special cases.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun log10(x: Float): Float\r\n\r\n/**\r\n * Computes the binary logarithm (base 2) of the value [x].\r\n *\r\n * @see [ln] function for special cases.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun log2(x: Float): Float\r\n\r\n/**\r\n * Computes `ln(a + 1)`.\r\n *\r\n * This function can be implemented to produce more precise result for [x] near zero.\r\n *\r\n * Special cases:\r\n * - `ln1p(NaN)` is `NaN`\r\n * - `ln1p(x)` is `NaN` where `x < -1.0`\r\n * - `ln1p(-1.0)` is `-Inf`\r\n * - `ln1p(+Inf)` is `+Inf`\r\n *\r\n * @see [ln] function\r\n * @see [expm1] function\r\n

*/\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun ln1p(x: Float): Float\r\n\r\n/**\r\n * Rounds the given value [x] to an integer towards positive infinity.\r\n\r\n * @return the smallest Float value that is greater than or equal to the given value [x] and is a mathematical integer.\r\n *\r\n * Special cases:\r\n * - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun ceil(x: Float): Float\r\n\r\n/**\r\n * Rounds the given value [x] to an integer towards negative infinity.\r\n\r\n * @return the largest Float value that is smaller than or equal to the given value [x] and is a mathematical integer.\r\n *\r\n * Special cases:\r\n * - `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun floor(x: Float): Float\r\n\r\n/**\r\n * Rounds the given value [x] to an integer towards zero.\r\n *\r\n * @return the value [x] having its fractional part truncated.\r\n *\r\n * Special cases:\r\n * - `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun truncate(x: Float): Float\r\n\r\n/**\r\n * Rounds the given value [x] towards the closest integer with ties rounded towards even integer.\r\n *\r\n * Special cases:\r\n * - `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun round(x: Float): Float\r\n\r\n\r\n/**\r\n * Returns the absolute value of the given value [x].\r\n *\r\n * Special cases:\r\n * - `abs(NaN)` is `NaN`\r\n *\r\n * @see absoluteValue extension property for [Float]\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun abs(x: Float): Float\r\n\r\n/**\r\n * Returns the sign of the given value [x]:\r\n * - `-1.0` if the value is negative,\r\n * - zero if the value is zero,\r\n * - `1.0` if the value is positive\r\n *\r\n * Special case:\r\n * - `sign(NaN)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun sign(x: Float): Float\r\n\r\n\r\n\r\n/**\r\n * Returns the smaller of two values.\r\n *\r\n * If either value is `NaN`, then the result is `NaN`.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun min(a: Float, b: Float): Float\r\n\r\n/**\r\n * Returns the greater of two values.\r\n *\r\n * If either value is `NaN`, then the result is `NaN`.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun max(a: Float, b: Float): Float\r\n\r\n// extensions\r\n\r\n\r\n/**\r\n * Raises this value to the power [x].\r\n *\r\n * Special cases:\r\n * - `b.pow(0.0)` is `1.0`\r\n * - `b.pow(1.0) == b`\r\n * - `b.pow(NaN)` is `NaN`\r\n * - `NaN.pow(x)` is `NaN` for `x != 0.0`\r\n * - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\r\n * - `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun Float.pow(x: Float): Float\r\n\r\n/**\r\n * Raises this value to the integer power [n].\r\n *\r\n * See the other overload of [pow] for details.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun Float.pow(n: Int): Float\r\n\r\n/**\r\n * Returns the absolute value of this value.\r\n *\r\n * Special cases:\r\n * - `NaN.absoluteValue` is `NaN`\r\n *\r\n * @see abs function\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect val Float.absoluteValue: Float\r\n\r\n/**\r\n * Returns the sign of this value:\r\n * - `-1.0` if the value is negative,\r\n * - zero if the value is zero,\r\n * - `1.0` if the value is positive\r\n *\r\n * Special case:\r\n * - `NaN.sign` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect val Float.sign: Float\r\n\r\n/**\r\n * Returns this value with the sign bit same as of the [sign] value.\r\n *\r\n * If [sign] is `NaN` the sign of the result is undefined.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun Float.withSign(sign: Float): Float\r\n\r\n/**\r\n * Returns this value with the sign bit same as of the [sign] value.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun Float.withSign(sign: Int): Float\r\n\r\n\r\n\r\n/**\r\n * Rounds this [Float] value to the nearest integer and converts the result to [Int].\r\n * Ties are rounded towards positive infinity.\r\n *\r\n * Special cases:\r\n * - `x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`\r\n * - `x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`\r\n *\r\n * @throws IllegalArgumentException when this value is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun Float.roundToInt(): Int\r\n\r\n\r\n/**\r\n * Rounds this [Float] value to the nearest integer and converts the result to [Long].\r\n * Ties are rounded towards positive infinity.\r\n *\r\n * Special cases:\r\n * - `x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`\r\n * - `x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE`\r\n *\r\n * @throws IllegalArgumentException when this value is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun Float.roundToLong(): Long\r\n\r\n\r\n\r\n// endregion\r\n\r\n\r\n// region =============== Integer Math ===================================\r\n\r\n\r\n\r\n/**\r\n * Returns the absolute value of the given value [n].\r\n *\r\n * Special cases:\r\n * - `abs(Int.MIN_VALUE)` is `Int.MIN_VALUE` due to an overflow\r\n *\r\n * @see absoluteValue extension property for [Int]\r\n

*/\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun abs(n: Int): Int\r\n\r\n/**\r\n * Returns the smaller of two
values.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun min(a: Int, b: Int): Int\r\n\r\n/**\r\n * Returns the
greater of two values.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun max(a: Int, b: Int): Int\r\n\r\n/**\r\n *
Returns the absolute value of this value.\r\n *\r\n * Special cases:\r\n *   - `Int.MIN_VALUE.absoluteValue` is
`Int.MIN_VALUE` due to an overflow\r\n *\r\n * @see abs function\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic
expect val Int.absoluteValue: Int\r\n\r\n/**\r\n * Returns the sign of this value:\r\n *   - `-1` if the value is
negative,\r\n *   - `0` if the value is zero,\r\n *   - `1` if the value is positive\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic
expect val Int.sign: Int\r\n\r\n\r\n\r\n/**\r\n * Returns the absolute value of the given value [n].\r\n *\r\n * Special
cases:\r\n *   - `abs(Long.MIN_VALUE)` is `Long.MIN_VALUE` due to an overflow\r\n *\r\n * @see
absoluteValue extension property for [Long]\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun abs(n: Long):
Long\r\n\r\n/**\r\n * Returns the smaller of two values.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun min(a:
Long, b: Long): Long\r\n\r\n/**\r\n * Returns the greater of two values.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic
expect fun max(a: Long, b: Long): Long\r\n\r\n/**\r\n * Returns the absolute value of this value.\r\n *\r\n * Special
cases:\r\n *   - `Long.MIN_VALUE.absoluteValue` is `Long.MIN_VALUE` due to an overflow\r\n *\r\n * @see
abs function\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect val Long.absoluteValue: Long\r\n\r\n/**\r\n * Returns
the sign of this value:\r\n *   - `-1` if the value is negative,\r\n *   - `0` if the value is zero,\r\n *   - `1` if the value is
positive\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect val Long.sign: Int\r\n\r\n\r\n//
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AAA,oC;IAAA,C;;MAkBA,kC;MAEI,iBACqB,W;MAErB,iBACqB,U;MAErB,kBACuB,C;MAEvB,iBACsB,E;IA
Z1B,C;;;;MAAA,yC;QAAA,wB;;MAAA,kC;IAAA,C;;MAeA,mC;MAEI,iBACJ,MAAM,KAAoB,U;MAEtB,iBAC
J,MAAM,KAAoB,U;MAEtB,kBACuB,C;MAEvB,iBACsB,E;IAZ1B,C;;;;MAAA,0C;QAAA,yB;;MAAA,mC;IAA
A,C;;MAeA,oC;MAEI,iBACuB,U;MAEvB,iBACuB,K;MAEvB,kBACuB,C;MAEvB,iBACsB,E;IAZ1B,C;;;;MAA
A,2C;QAAA,0B;;MAAA,oC;IAAA,C;;MAeA,mC;MAEI,iBACsB,Q;MAEtB,iBACsB,G;MAEtB,kBACuB,C;MA
EvB,iBACsB,C;IAZ1B,C;;;;MAAA,0C;QAAA,yB;;MAAA,mC;IAAA,C;;MAeA,mC;MAEI,iBACmC,C;MAEnC,i
BACmC,K;MAEnC,0BAC4C,K;MAE5C,0BAC4C,K;MAE5C,yBAC2C,K;MAE3C,yBAC2C,K;MAE3C,qBACuC
,uB;MAEvC,qBACuC,sB;MAEvC,kBACuB,C;MAEvB,iBACsB,E;IA9B1B,C;;;;MAAA,0C;QAAA,yB;;MAAA,m
C;IAAA,C;;MAiCA,qC;IAAA,C;;;;MAAA,4C;QAAA,2B;;MAAA,qC;IAAA,C;;MAEA,sC;IAAA,C;;;;MAAA,6C;
QAAA,4B;;MAAA,sC;IAAA,C;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;aC0hcoB,gB;;;;cCppb0C,mB;;gBAyEvC,yB;eAAyB,wB;
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BCPA,0B;;;;;aC1K8B,e;;;;;;;;;;;gCC1ChD,yC;+BCTA,uC;+BCDA,sC;;gCC+I/B,+B;gBClEqE,yB;;;;;;;;;;;;;;;;;;;;;;;;;
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CX,C;;MAOI,OAAO,UAAI,CAAJ,C;IACX,C;;MAOI,OAAO,UAAI,CAAJ,C;IACX,C;;MAOI,OAAO,UAAI,CAA
J,C;IACX,C;;MAOI,OAAO,UAAI,CAAJ,C;IACX,C;;MAOI,OAAO,UAAI,CAAJ,C;IACX,C;;MAOI,OAAO,UAA
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CX,C;;MAOI,OAAO,UAAI,CAAJ,C;IACX,C;;MAOI,OAAO,UAAI,CAAJ,C;IACX,C;;MAOI,OAAO,UAAI,CAA
J,C;IACX,C;;MAOI,OAAO,UAAI,CAAJ,C;IACX,C;;MAOI,OAAO,UAAI,CAAJ,C;IACX,C;;MAOI,OAAO,UAA
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I,OAAO,UAAI,CAAJ,C;IACX,C;;MAOI,OAAO,UAAI,CAAJ,C;IACX,C;;MAOI,OAAO,UAAI,CAAJ,C;IACX,C;
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MI,OAAO,qBAAQ,OAAR,KAAoB,C;IAC/B,C;;MAMI,OAAO,qBAAQ,OAAR,KAAoB,C;IAC/B,C;;MAMI,OAA
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B;IACJ,C;;MAOW,sB;;QAyXS,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IAzXH,SAyXO,CAAU,OAAV,CAAJ,C;
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,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;;UAE5B,oBAAO,I;;;QAzsCP,wB;MACJ,C;KANA,C;wFAQA,yB;MAysC
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AO,I;;;QA/sCP,wB;MACJ,C;KANA,C;wFAQA,yB;MA+sCA,0D;MAAA,+C;MA/sCA,uC;QAKW,qB;;UA8sCO,
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AAP,sB;;;UAE5B,oBAAO,I;;;QAxtCP,wB;MACJ,C;KANA,C;wFAQA,yB;MAwtCA,0D;MAAA,+C;MAxtCA,uC
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FA,uBAOe,yB;QArEf,8D;;UAqEe,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DgB,CA5DhB,CAAd,EAA2
B,SA4DM,CA5DN,CAA3B,C;UA4DI,C;QAAA,C;OAAA,C;MfisKf,sC;QAII,OAAO,mDersKI,iBfqsKiB,QersKjB
,CfqsKJ,E;MACX,C;KALA,C;wFAOA,yB;MAAA,wD;Me/sKA,sC;MCjFA,kC;MAAA,oC;;QAAsG,4C;MAAtG,
C;MAAA,6D;QAC4C,+BAAW,CAAX,EAAc,CAAd,C;MAAA,C;MAD5C,kF;MDiFA,uBAOe,yB;QArEf,8D;;UA
qEe,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DgB,CA5DhB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;
UA4DI,C;QAAA,C;OAAA,C;MfwsKf,sC;QAII,OAAO,mDe5sKI,iBf4sKiB,Qe5sKjB,Cf4sKJ,E;MACX,C;KALA,
C;wFAOA,yB;MAAA,wD;MettKA,sC;MCjFA,kC;MAAA,oC;;QAAsG,4C;MAAtG,C;MAAA,6D;QAC4C,+BAA
W,CAAX,EAAc,CAAd,C;MAAA,C;MAD5C,kF;MDiFA,uBAOe,yB;QArEf,8D;;UAqEe,uB;YAAU,eAAsB,gB;Y
AAtB,OA5Dd,cAAc,SA4DgB,CA5DhB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;UA4DI,C;QAAA,C;OAAA,C
;Mf+sKf,sC;QAII,OAAO,mDentKI,iBfmtKiB,QentKjB,CfmtKJ,E;MACX,C;KALA,C;wFAOA,yB;MAAA,wD;Me
7tKA,sC;MCjFA,kC;MAAA,oC;;QAAsG,4C;MAAtG,C;MAAA,6D;QAC4C,+BAAW,CAAX,EAAc,CAAd,C;MA
AA,C;MAD5C,kF;MDiFA,uBAOe,yB;QArEf,8D;;UAqEe,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DgB,
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C;;QAAsG,4C;MAAtG,C;MAAA,6D;QAC4C,+BAAW,CAAX,EAAc,CAAd,C;MAAA,C;MAD5C,kF;MDiFA,uB
AOe,yB;QArEf,8D;;UAqEe,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DgB,CA5DhB,CAAd,EAA2B,SA4
DM,CA5DN,CAA3B,C;UA4DI,C;QAAA,C;OAAA,C;Mf6tKf,sC;QAII,OAAO,mDejuKI,iBfiuKiB,QejuKjB,CfiuK
J,E;MACX,C;KALA,C;0GAOA,yB;MAAA,wD;MextKA,sC;MCpGA,kC;MAAA,oC;;QAAsG,4C;MAAtG,C;MA
AA,6D;QAC4C,+BAAW,CAAX,EAAc,CAAd,C;MAAA,C;MAD5C,kF;MDoGA,iCAOe,yB;QAxFf,8D;;UAwFe,u
B;YAAU,eAAsB,gB;YAAtB,OA/Ed,cAAc,SA+EgB,CA/EhB,CAAd,EAA2B,SA+EM,CA/EN,CAA3B,C;UA+EI,
C;QAAA,C;OAAA,C;MfitKf,sC;QAMI,OAAO,mDevtKI,2BfutK2B,QevtK3B,CfutKJ,E;MACX,C;KAPA,C;4GAS
A,yB;MAAA,wD;MejuKA,sC;MCpGA,kC;MAAA,oC;;QAAsG,4C;MAAtG,C;MAAA,6D;QAC4C,+BAAW,CAA
X,EAAc,CAAd,C;MAAA,C;MAD5C,kF;MDoGA,iCAOe,yB;QAxFf,8D;;UAwFe,uB;YAAU,eAAsB,gB;YAAtB,O
A/Ed,cAAc,SA+EgB,CA/EhB,CAAd,EAA2B,SA+EM,CA/EN,CAA3B,C;UA+EI,C;QAAA,C;OAAA,C;Mf0tKf,s
C;QAII,OAAO,mDe9tKI,2Bf8tK2B,Qe9tK3B,Cf8tKJ,E;MACX,C;KALA,C;4GAOA,yB;MAAA,wD;MexuKA,sC;
MCpGA,kC;MAAA,oC;;QAAsG,4C;MAAtG,C;MAAA,6D;QAC4C,+BAAW,CAAX,EAAc,CAAd,C;MAAA,C;M
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CAAd,EAA2B,SA+EM,CA/EN,CAA3B,C;UA+EI,C;QAAA,C;OAAA,C;MfiuKf,sC;QAII,OAAO,mDeruKI,2Bfqu
K2B,QeruK3B,CfquKJ,E;MACX,C;KALA,C;4GAOA,yB;MAAA,wD;Me/uKA,sC;MCpGA,kC;MAAA,oC;;QAAs
G,4C;MAAtG,C;MAAA,6D;QAC4C,+BAAW,CAAX,EAAc,CAAd,C;MAAA,C;MAD5C,kF;MDoGA,iCAOe,yB;
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N,CAA3B,C;UA+EI,C;QAAA,C;OAAA,C;MfwuKf,sC;QAII,OAAO,mDe5uKI,2Bf4uK2B,Qe5uK3B,Cf4uKJ,E;M
ACX,C;KALA,C;4GAOA,yB;MAAA,wD;MetvKA,sC;MCpGA,kC;MAAA,oC;;QAAsG,4C;MAAtG,C;MAAA,6D
;QAC4C,+BAAW,CAAX,EAAc,CAAd,C;MAAA,C;MAD5C,kF;MDoGA,iCAOe,yB;QAxFf,8D;;UAwFe,uB;YA
AU,eAAsB,gB;YAAtB,OA/Ed,cAAc,SA+EgB,CA/EhB,CAAd,EAA2B,SA+EM,CA/EN,CAA3B,C;UA+EI,C;QA
AA,C;OAAA,C;Mf+uKf,sC;QAII,OAAO,mDenvKI,2BfmvK2B,QenvK3B,CfmvKJ,E;MACX,C;KALA,C;4GAOA
,yB;MAAA,wD;Me7vKA,sC;MCpGA,kC;MAAA,oC;;QAAsG,4C;MAAtG,C;MAAA,6D;QAC4C,+BAAW,CAA
X,EAAc,CAAd,C;MAAA,C;MAD5C,kF;MDoGA,iCAOe,yB;QAxFf,8D;;UAwFe,uB;YAAU,eAAsB,gB;YAAtB,O
A/Ed,cAAc,SA+EgB,CA/EhB,CAAd,EAA2B,SA+EM,CA/EN,CAA3B,C;UA+EI,C;QAAA,C;OAAA,C;MfsvKf,s
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sC;MCpGA,kC;MAAA,oC;;QAAsG,4C;MAAtG,C;MAAA,6D;QAC4C,+BAAW,CAAX,EAAc,CAAd,C;MAAA,
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;;QAAsG,4C;MAAtG,C;MAAA,6D;QAC4C,+BAAW,CAAX,EAAc,CAAd,C;MAAA,C;MAD5C,kF;MDoGA,iCA

Oe,yB;QAxFf,8D;;UAwFe,uB;YAAU,eAAsB,gB;YAAtB,OA/Ed,cAAc,SA+EgB,CA/EhB,CAAd,EAA2B,SA+EM,CA/EN,CAA3B,C;UA+EI,C;QAAA,C;OAAA,C;MfowKf,sC;QAII,OAAO,mDexwKI,2BfwwK2B,QexwK3B,CfwwKJ,E;MACX,C;KALA,C;4GAOA,yB;MAAA,wD;MelxKA,sC;MCpGA,kC;MAAA,oC;;QAAsG,4C;MAAtG,C;MAAA,6D;QAC4C,+BAAW,CAAX,EAAc,CAAd,C;MAAA,C;MAD5C,kF;MDoGA,iCAOe,yB;QAxFf,8D;;UAwFe,uB;YAAU,eAAsB,gB;YAAtB,OA/Ed,cAAc,SA+EgB,CA/EhB,CAAd,EAA2B,SA+EM,CA/EN,CAA3B,C;UA+EI,C;QAAA,C;OAAA,C;Mf2wKf,sC;QAII,OAAO,mDe/wKI,2Bf+wK2B,Qe/wK3B,Cf+wKJ,E;MACX,C;KALA,C;;MAaI,OAAO,sBAAW,cAAX,C;IACX,C;;MAMoB,kBcjqJQ,iB;MdiqJA,iB;MAAxB,OAAiC,WiBp0K1B,WjBo0K0B,C;IACrC,C;;MAMoB,kBc9pJQ,iB;Md8pJA,iB;MAAxB,OAAiC,WiB30K1B,WjB20K0B,C;IACrC,C;;MAMoB,kBc3pJQ,iB;Md2pJA,iB;MAAxB,OAAiC,WiBl1K1B,WjBk1K0B,C;IACrC,C;;MAMoB,kBAAT,oB;MAAiB,mB;MAAxB,OAAiC,WiBz1K1B,WjBy1K0B,C;IACrC,C;;MAMoB,kBctpJQ,iB;MdspJA,iB;MAAxB,OAAiC,WiBh2K1B,WjBg2K0B,C;IACrC,C;;MAMoB,kBcnpJQ,iB;MdmpJA,iB;MAAxB,OAAiC,WiBv2K1B,WjBu2K0B,C;IACrC,C;;MAMoB,kBAAT,oB;MAAiB,iB;MAAxB,OAAiC,WiB92K1B,WjB82K0B,C;IACrC,C;;MAQI,OAAmC,OAA5B,2BAAgB,UAAhB,CAA4B,C;IACvC,C;;MAM0B,kBAAf,yB;MAAuB,iC;MAA9B,OAAqD,OiB93K9C,WjB83K8C,C;IACzD,C;;MAM0B,kBAAf,yB;MAAuB,iC;MAA9B,OAAqD,OiBr4K9C,WjBq4K8C,C;IACzD,C;;MAM0B,kBAAf,yB;MAAuB,iC;MAA9B,OAAqD,OiB54K9C,WjB44K8C,C;IACzD,C;;MAM0B,kBAAf,yB;MAAuB,iC;MAA9B,OAAqD,OiBn5K9C,WjBm5K8C,C;IACzD,C;;MAM0B,kBAAf,yB;MAAuB,iC;MAA9B,OAAqD,OiB15K9C,WjB05K8C,C;IACzD,C;;MAM0B,kBAAf,yB;MAAuB,iC;MAA9B,OAAqD,OiBj6K9C,WjBi6K8C,C;IACzD,C;;MAM0B,kBAAf,yB;MAAuB,iC;MAA9B,OAAqD,OiBx6K9C,WjBw6K8C,C;IACzD,C;;MAM0B,kBAAf,0B;MAAuB,iC;MAA9B,OAAqD,OiB/6K9C,WjB+6K8C,C;IACzD,C;;MAizBY,oBAAS,CAAT,EAAY,wBAAZ,C;IAAA,C;;MAMA,oBAAS,CAAT,EAAY,0BAAZ,C;IAAA,C;;MAMA,oBAAS,CAAT,EAAY,0BAAZ,C;IAAA,C;;MAMA,oBAAS,CAAT,EAAY,0BAAZ,C;IAAA,C;;MAMA,oBAAS,CAAT,EAAY,0BAAZ,C;IAAA,C;;MAMA,oBAAS,CAAT,EAAY,0BAAZ,C;IAAA,C;;MAMA,oBAAS,CAAT,EAAY,0BAAZ,C;IAAA,C;;MAMA,oBAAS,CAAT,EAAY,0BAAZ,C;IAAA,C;;MAMA,oBAAS,CAAT,EAAY,0BAAZ,C;IAAA,C;;MAOR,OAAO,qBAAQ,C;IACnB,C;;MAOI,OAAO,qBAAQ,C;IACnB,C;;MAOI,OAAO,qBAAQ,C;IACnB,C;;MAOI,OAAO,qBAAQ,C;IACnB,C;;MAOI,OAAO,qBAAQ,C;IACnB,C;;MAOI,OAAO,qBAAQ,C;IACnB,C;;MAOI,OAAO,qBAAQ,C;IACnB,C;;MAOI,OAAO,qBAAQ,C;IACnB,C;;MAOI,OAAO,qBAAQ,C;IACnB,C;;MAOI,OAAO,EAxEA,qBAAQ,CAwER,C;IACX,C;;MAOI,OAAO,EAxEA,qBAAQ,CAwER,C;IACX,C;;MAOI,OAAO,EAxEA,qBAAQ,CAwER,C;IACX,C;;MAOI,OAAO,EAxEA,qBAAQ,CAwER,C;IACX,C;;MAOI,OAAO,EAxEA,qBAAQ,CAwER,C;IACX,C;;MAOI,OAAO,EAxEA,qBAAQ,CAwER,C;IACX,C;;MAOI,OAAO,EAxEA,qBAAQ,CAwER,C;IACX,C;;MAOI,OAAO,EAxEA,qBAAQ,CAwER,C;IACX,C;;MAOI,OAAO,EAxEA,qBAAQ,CAwER,C;IACX,C;;MAMY,0BAAO,CAAP,I;IAAA,C;;MAMA,0BAAO,CAAP,I;IAAA,C;;MAMA,0BAAO,CAAP,I;IAAA,C;;MAMA,0BAAO,CAAP,I;IAAA,C;;MAMA,0BAAO,CAAP,I;IAAA,C;;MAMA,0BAAO,CAAP,I;IAAA,C;;MAMA,0BAAO,CAAP,I;IAAA,C;;MAMA,0BAAO,CAAP,I;IAAA,C;;MAMA,0BAAO,CAAP,I;IAAA,C;;MAuNkB,wB;QAAW,2BAAK,KAAL,C;MAAX,C;IAAA,C;;MAA1B,OAAO,qBAAa,gBAAb,EAAAmB,gCAAnB,C;IACX,C;;MAM2B,wB;QAAW,wBAAK,KAAL,C;MAAX,C;IAAA,C;;MAAvB,OAAO,+BAAU,gBAAV,GAAAgB,6BAAhB,C;IACX,C;;MAM2B,wB;QAAW,wBAAK,KAAL,C;MAAX,C;IAAA,C;;MAAvB,OAAO,kBAAU,gBAAV,EAAAgB,6BAAhB,C;IACX,C;;MAM6B,wB;QAAW,0BAAK,KAAL,C;MAAX,C;IAAA,C;;MAAzB,OAAO,kCAAY,gBAAZ,GAAAkB,+BAAlB,C;IACX,C;;MAM4B,wB;QAAW,yBAAK,KAAL,C;MAAX,C;IAAA,C;;MAAxB,OAAO,kCAAW,gBAAX,GAAAiB,8BAAjB,C;IACX,C;;MAM0B,wB;QAAW,uBAAK,KAAL,C;MAAX,C;IAAA,C;;MAAtB,OAAO,gCAAS,gBAAT,GAAAe,4BAAf,C;IACX,C;;MAM2B,wB;QAAW,wBAAK,KAAL,C;MAAX,C;IAAA,C;;MAAvB,OAAO,kBAAU,gBAAV,EAAAgB,6BAAhB,C;IACX,C;;MAM4B,wB;QAAW,yBAAK,KAAL,C;MAAX,C;IAAA,C;;MAAxB,OAAO,gCAAW,gBAAX,GAAAiB,8BAAjB,C;IACX,C;wFA0CA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,uC;QASI,eAAiC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAY,mBAAoB,QAApB,C;QA+kBH,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAhlB8C,SAglB/B,CAAU,OAAV,C;UO50NnB,wBAAI,IAAK,MAAT,EAAgB,IAAK,OAArB,C;;QP4vMA,OAklBO,W;MAjlBX,C;KAXA,C;0FAaA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,uC;QASI,eAAiC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAY,mBAAoB,QAApB,C;QA+kBH,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAhlB8C,SAglB/B,CAAU,OAAV,C;UOz1NnB,wBAAI,IAAK,MAAT,EAAgB,IAAK,OAArB,C;;QPywMA,OAklBO,W;MAjlBX,C;KAXA,C;0FAaA,yB;MAAA,0D;MAAA,yD;MAAA,u

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AT,C;YACA,e;;;YAEA,c;;UP0vQA,iB;UACA,IAAK,WA3RyD,cA2RrD,CAAe,OAAf,CAAJ,C;;QA3RT,OA6RO,
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A,C;uFAaA,yB;MAAA,wE;MA4SA,+D;MA5SA,yD;QAUW,kBAAU,oB;QA4SD,Q;QAAhB,iD;UAAgB,cAAhB,
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QA,iB;UACA,IAAK,WApTyD,cAoTrD,CAAe,OAAf,CAAJ,C;;QApTT,OAsTO,W;MArTX,C;KAXA,C;uFAaA,y
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A,e;;;YAEA,c;;UPs2QA,iB;UACA,IAAK,WAzTyD,cAyTrD,CAAe,oBAAf,CAAJ,C;;QAzTT,OA2TO,W;MA1TX,
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AO,W;MACX,C;KAfA,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,c
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EA,c;;UPgoQA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;MACX,C;KAfA,C;0FAiBA,yB;MAAA,+D;M
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,OAAO,C;QACtB,IAAI,MAAM,CAAV,C;UAAa,MAAM,C;;MAEvB,OAAO,G;IACX,C;;MAQiB,Q;MAFb,IA/9I
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,C;YACA,e;;;YAEA,c;;UY67BA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;MACX,C;KAfA,C;2FAiBA,
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nB,C;;MASI,OAAe,cAAR,iBAAQ,EAAc,KAAM,QAApB,C;IACnB,C;;MAQI,OAAe,gBAAR,iBAAQ,C;IACnB,C
;;MAQI,OAAe,gBAAR,iBAAQ,C;IACnB,C;;MAQI,OAAe,gBAAR,iBAAQ,C;IACnB,C;;MAQI,OAAe,gBAAR,iB
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B+0EqE,QtB/0ErE,C;QsBg1EA,OAAO,W;MACX,C;KAtBA,C;wFAwBA,yB;MtB/0EA,8C;MsB+0EA,kF;QAmB
+D,iC;UAAA,oBAAyB,C;QAAG,0B;UAAA,aAAkB,C;QAAG,wB;UAAA,WAAgB,c;QtB90E5H,UsB+0EA,iBtB/
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E7B,EsB+6EsC,iBtB/6EtC,EsB+6EyD,UtB/6EzD,EsB+6EqE,QtB/6ErE,C;QsBg7EA,OAAO,W;MACX,C;KAtBA,
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,kC;MAAS,0B;MAC9D,aAAY,C;IADyC,C;;MAE5B,oBAAQ,kBAAM,O;IAAd,C;;MACkC,Q;MAA9B,IAAI,aAA
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oB1B,C;;M/FpBoB,MAAM,yB;I+FsB1B,C;;M/FtBoB,MAAM,yB;I+FwB1B,C;;MAGR,OAAO,oCAA0B,oBAAU,
KAAM,OAAhB,C;IACrC,C;;MAG+B,gB;MAAA,8FAA0B,C;IAA1B,C;;MAI3B,OAAO,oBAAQ,eAAR,C;IACX,
C;;;MAG2D,sBAAc,MAAd,C;MACL,Q;MAAtD,4BAAmC,CAAmB,OAAZ,MAAY,WAAnB,kC;IADC,C;;MACp
C,gC;IAAA,C;;MAGW,cAAgB,W;MAAvB,OxDqCuD,MAAa,QwDrCpD,KxDqCoD,EAAY,OAAZ,C;IwDpCxE,
C;;;MAOA,sBAAc,MAAd,C;MAFA,wC;MACA,8C;IAHuC,C;;MAMnC,IAAI,0CAAJ,C;QAAsC,OAAO,K;MAC
7C,OAAa,uCAAO,KAAP,CAAN,IAAuB,+BAAmB,KAAM,kBAAzB,C;IAClC,C;;MAEyC,6B;IAAA,C;;MAGrC,
OAAO,0BAAmB,KAAnB,C;IACX,C;;;MAGJ,iC;MAAoC,sBAAoB,MAApB,C;MAChC,4BAAkC,S;IADtC,C;;M
ACI,gC;IAAA,C;;MAEgD,Y;IAAA,C;;MAGpC,MAAM,qCAA8B,6CAA9B,C;IAAN,C;;MAEgC,iBAAU,I;IAAV,
C;;MAEb,Q;IAAA,C;;;;MAVnC,wC;QAAA,uB;;MAAA,iC;IAAA,C;;MC5EA,gC;MAEI,gBACe,wBAAoB,MAAp
B,EAA6D,KAA7D,EAAoE,gCAApE,C;MAEf,mBACkB,wBAAoB,MAApB,EAAgE,QAAhE,EAA0E,mCAA1E,C
;MAElB,oBACmB,+B;MAEnB,oBACmB,wBAAoB,OAApB,EAAkE,SAAlE,EAA6E,oCAA7E,C;MAEnB,iBACg
B,wBAAoB,MAApB,EAA8D,MAA9D,EAAsE,iCAAtE,C;MAEhB,kBACiB,wBAAoB,MAApB,EAA+D,OAA/D,
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AAoB,MAApB,EAA+D,OAA/D,EAAwE,kCAAxE,C;MAEjB,mBACkB,wBAAoB,MAApB,EAAgE,QAAhE,EA
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+E,sCAA/E,C;MAErB,yBACwB,wBAAoB,KAApB,EAAqE,cAArE,EAAqF,yCAArF,C;MAExB,sBACqB,wBAA
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E,C;MAErB,uBACsB,wBAAoB,YAApB,EAA0E,YAA1E,EAAwF,uCAAxF,C;MAEtB,wBACuB,wBAAoB,YAA
pB,EAA2E,aAA3E,EAA0F,wCAA1F,C;IA5D3B,C;;MAkE6C,qB;QAAE,O1D/DD,O0D+DU,EAAT,KAAiB,UAA
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c,C;;MAGxB,6B;IAAW,C;;MAGR,6B;IAAY,C;;MAGlB,6B;IAAU,C;;MAGJ,6B;IAAY,C;;MAGT,6B;IAAa,C;;M
AGd,yB;IAAe,C;;MAGd,6B;IAAa,C;;MAGL,mC;IAAgB,C;;MAGP,gC;IAAmB,C;;MAGtB,6B;IAAgB,C;;MAGl
B,6B;IAAgB,C;;MAGZ,8B;IAAiB,C;;MAGvB,4B;IAAe,C;;MAGjB,6B;IAAgB,C;;MAGN,8B;IAAiB,C;;MAGd,+
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AAF,IAAiB,S;MACjB,EAAE,YAAF,IAAkB,U;MAClB,EAAE,YAAF,IAAkB,U;MAClB,EAAE,QAAF,IAAc,M;
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AAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAEhB,OAAO,C;IACX,C;;MAM
2F,OAAU,S;IAAV,C;;MACD,OAAS,Q;IAAT,C;;MACC,OAAU,S;IAAV,C;;MAML,OAAO,M;IAAP,C;;MACD,
OAAM,K;IAAN,C;;MACA,OAAM,K;IAAN,C;;MC9H/C,qB;QAAA,QAAiB,S;MAAW,oB;QAAA,OP4qIW,S;;M
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D,oB;QAAA,OAAa,S;MAAW,sB;QAAA,SAAkB,S;MAAW,2B;QAAA,cAAuB,S;MAAW,sB;QAAA,SAA2C,S;
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AAqB,K;MAC/S,QAAQ,E;MAER,EAAE,MAAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,aAAF,IA
AmB,W;MACnB,EAAE,QAAF,IAAc,M;MACd,EAAE,OAAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAA
E,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAEhB,OAAO,C;IACX,C;;MA0CqC,mC;QAAA,sBAAgC,
K;MAAO,oB;QAAA,OAuSD,Q;;MAtSvE,QAAQ,E;MAER,EAAE,qBAAF,IAA2B,mB;MAC3B,EAAE,MAAF,IA
AY,I;MAEZ,OAAO,C;IACX,C;;MAasC,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,
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F,IAAgB,Q;MAEhB,OAAO,C;IACX,C;;MAoBI,QAAQ,E;MAER,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IA
Ae,O;MAEf,OAAO,C;IACX,C;;MAyBoD,wB;QAAA,WAAoB,I;MAAM,wB;QAAA,WAAqB,K;MAAO,uB;QAA
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F,IAAe,O;MACf,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,SAAF,IAAe,O;MACf,
EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAEhB,OAAO,C;IACX,C;;MAkB2D,sB;QAAA,SAAk
B,M;MAAQ,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAC/J,QAAQ,E
;MAER,EAAE,SAAF,IAAe,O;MACf,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,I
AAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAEhB,OAAO,C;IACX,C;;MAe4D,sB;QAAA,SAAkB,S;MAAW,uB;
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E,SAAF,IAAe,O;MAEf,OAAO,C;IACX,C;;MAgC6C,oB;QAAA,OAAa,S;MAAW,sB;QAAA,SAAkB,S;MAAW,2
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ACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,aAAF,IAAmB,W;MACnB,EAAE,QAAF,IAAc,M;MACd,EAAE,OAA
F,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAEhB,
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Y,W;IAAZ,C;;MACH,OAAS,Q;IAAT,C;;MACF,OAAO,M;IAAP,C;;MAMI,OAAS,Q;IAAT,C;;MACA,OAAS,Q;
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,+B;MAAA,0C;IAAA,C;;;MAEA,+B;MAAA,wC;IAAA,C;;;MAPJ,yF;IAAA,C;;;MAAA,a;aAAA,S;UAAA,+C;aA
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C;YAAwB,aAAO,I;YAAP,e;;;QAC9C,aAAO,K;;;M4Ht8CsD,iB;IAAA,C;;MAGhD,c;;Q5H66CG,Q;QADhB,IAAI
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,W;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,C4H76CP,oB5H66CkB,O4H76ClB,C5H66CG,C;YAAy
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AEV,IAAI,aAAa,QAAjB,C;QACI,MAAM,gCAAyB,iBAAc,UAAd,qBAAsC,QAA/D,C;;IAEd,C;;MAIc,UACsB,
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0B,OAAO,K;MAEjC,oBAAoB,KAAM,W;MACb,mB;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,gBAAgB,aAAc,O;
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AP,e;;QACrB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,I+H77CwD,O/H67C1C,O+H77C6C,MAAH,Q/
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AR,C;;MACH,OAAA,YAAQ,K;IAAR,C;;MAWX,wC;MAAS,sB;IAAT,C;;MACkD,+CAAY,OAAZ,C;IAAA,C;;
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,MAAP,C;IAAV,C;;MAErD,IAAI,gCAAJ,C;QAA+B,OAAO,K;MACtC,OAAO,OAAA,CAAE,IAAF,EAAS,KAA
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yB;QACC,U;QAAb,2BAAa,yEAAuB,CAApC,K;;MAEJ,OAAO,U;IACX,C;;MAGI,IAAI,CAAE,KAAF,KAAU,K
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MI,OAAO,yBAAgB,OAAT,QAAS,CAAhB,C;IACX,C;;MAKkF,gCAAc,SAAd,EAAyB,IAAzB,C;IAAA,C;;MAK
A,gCAAc,SAAd,EAAyB,KAAzB,C;IAAA,C;;MAG9E,iBAAa,KAAb,C;MvI7FgB,kBuI8FX,oB;MACD,OAAO,q
BAAP,C;QACI,IAAI,UAAU,kBAAV,6BAAJ,C;UACI,oB;UACA,WAAS,I;;MAGrB,OAAO,Q;IACX,C;;MAK8E,
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,C;QAEJ,+B;;MAEJ,IAAI,aAAa,cAAjB,C;QACwB,oC;QAAiB,mB;QAArC,oE;UACI,2BAAS,WAAT,C;QAEJ,O
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U,GAAV,C;;QAEP,OAAO,wB;IACf,C;;MAGI,alJpFwD,CAAC,mB;MkJqFzD,iB;MACA,OAAO,M;IACX,C;;MA
SI,aAAU,2BAAV,OAA2B,CAA3B,M;QACI,QAAQ,MAAO,iBAAQ,IAAI,CAAJ,IAAR,C;QACf,WAAW,sBAAK
,CAAL,C;QACX,sBAAK,CAAL,EAAU,sBAAK,CAAL,CAAV,C;QACA,sBAAK,CAAL,EAAU,IAAV,C;;IAER,
C;;MAO+E,kBAAhB,0B;MAAwB,8B;MAAxB,OvIzMpD,W;IuIyMoD,C;;MClRiB,uB;MAAjC,0B;IAAD,C;;MA
CX,OAAA,eAAS,K;IAAT,C;;MACG,mCAAS,0BAAoB,KAApB,CAAT,C;IAAA,C;;;MAGgC,8B;MAAxC,0B;IA
AD,C;;MACM,OAAA,eAAS,K;IAAT,C;;MACG,mCAAS,0BAAoB,KAApB,CAAT,C;IAAA,C;;MAEX,eAAS,Q;I
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Cb,C;;;MAIgB,Q;MAAA,kC;MAAhB,IAAa,CAAT,0BAAJ,C;QAAA,OAA2B,8BAAY,KAAZ,I;;QAAuB,MAAM,
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,C;MAAF,C;IAAA,C;;MAAT,oCAAS,sBAAT,C;IAAA,C;8FAErG,yB;MAAAA,kD;M9IhBA,kC;MAAAA,0C;;QAQ
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CI,QAAM,YAAN,C;eACI,C;YAAA,K;eACA,C;YACI,IAAI,kCAAe,UAAnB,C;cACI,eAAQ,C;cACR,OAAO,I;;;c
AEP,sBAAe,I;;;YALvB,K;eAOA,C;YAAc,OAAO,K;eACrB,C;eAAA,C;YAAgC,OAAO,I;kBAC/B,MAAM,yB;;Q
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+FkGA,C;;MAGU,IASe,I;MATrB,QAAM,YAAN,C;aACI,C;aAAA,C;UAAsC,OAAO,qB;aAC7C,C;UACI,eAAQ,
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,+BAAS,E;IAAlB,C;;MAOM,OAAI,QZy0MtD,YAAQ,CYz0M0C,GAAwB,eAAxB,GAAsD,WAAT,QAAS,C;IA
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;KAN5D,C;;MAgB4F,wC;MAAA,6B;MAAA,yB;MAAA,wC;MAAA,wD;MAAA,kC;IAO5F,C;;;;;;;;cANI,eAAe,
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A,W;;;;;;;;;;;;;;;;IAMJ,C;;MAP4F,yD;uBAAA,uG;YAAA,S;iBAAA,Q;;iBAAA,uB;MAAA,C;IAAA,C;;MAAT,gB
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e,iCAAS,W;MACxB,iBAAqB,E;MACrB,gBAAmB,I;IAHgB,C;;MAM/B,OAAO,aAAS,UAAhB,C;QACI,WAAW,
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I,MAAM,6B;MACV,aAAa,a;MACb,gBAAW,I;MACX,iBAAY,E;MAEZ,OAAO,yE;IACX,C;;MAGI,IAAI,mBAA
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Y,C;IAFuB,C;;MAIO,Q;MAAtC,OAAO,oDAAY,oBAAmB,iBAAnB,EAAmB,yBAAnB,QAAZ,EAAyC,aAAS,O
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Ae,gCAAS,W;MACxB,aAAY,C;IAFqC,C;;MAIN,Q;MAAvC,OAAO,iBAAa,oBAAmB,iBAAnB,EAAmB,yBAAn
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B,wCAAS,2CAAY,OAAZ,CAAT,C;UACvB,IAAI,gBAAiB,UAArB,C;YACI,oBAAe,gB;YACf,OAAO,I;;;;MAIn
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DiRQ,mBAAY,CCjRpB,CAAJ,C;QACI,gBDgRyB,6CAA0C,e;QC/QnE,MAAM,gCAAyB,SAAQ,WAAjC,C;;MA
FV,IAAI,EDkRQ,mBAAY,iBClRpB,CAAJ,C;QACI,gBDiRkC,0DAAuD,eAAvD,WAAmE,iB;QChRrG,MAAM,g
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IAFW,C;;MAK/B,IAAI,cAAQ,CAAZ,C;QACI,MAAM,6B;MACV,6B;MACA,OAAO,aAAS,O;IACpB,C;;MAGI,
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ACT,6B;;IAER,C;;MAGI,a;MACA,OAAO,aAAS,O;IACpB,C;;MAGI,a;MACA,OAAO,aAAS,U;IACpB,C;;;MAp
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Eb,iBAAY,E;MACZ,OAAO,M;IACX,C;;MAGI,IAAI,iBAAY,CAAhB,C;QACI,iB;MACJ,OAAO,mBAAa,C;IAC
xB,C;;;MAzBmC,yD;IAAA,C;;;MAwCvC,OAAW,iDAAJ,GAAwC,SAAxC,GAAkD,4BAAwB,SAAxB,C;IAC7D,
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oD,C;IAC/D,C;;MAoB0B,mB;QAAE,mB;MAAF,C;IAAA,C;;MAHtB,OAAI,YAAJ,GACI,2BADJ,GAGI,sBAAkB
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A8Ge,uB;YACP,sBAAsB,WAAY,SAAQ,CAAR,EAAW,CAAX,C;YAClC,Q;YAAA,IAAI,oBAAmB,CAAvB,C;c
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A,C;MAD5C,kF;;QD8Ie,uB;UACP,sBAAsB,WAAY,SAAQ,CAAR,EAAW,CAAX,C;UAClC,Q;UAAA,IAAI,oBA
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B;QAEyC,qBAAK,SAAK,QAAV,C;MAAA,C;KAFzC,C;wEAGA,yB;MAAA,6B;MAAA,mB;QAEyC,qBAAK,S
AAK,QAAV,C;MAAA,C;KAFzC,C;gGAIA,yB;MAAA,8C;MAAA,wB;QAE6D,0BAAU,IAAV,EAAgB,KAAhB,
C;MAAA,C;KAF7D,C;wFAIA,yB;MAAA,6B;MAAA,2B;QAEmD,qBAAK,aAAS,QAAd,C;MAAA,C;KAFnD,C;
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B;MAAA,wB;QAEiD,qBAAK,IAAK,KAAL,GAAc,KAAM,KAAzB,C;MAAA,C;KAFjD,C;sFAGA,yB;MAAA,6
B;MAAA,wB;QAEgD,qBAAK,IAAK,KAAL,GAAa,KAAM,KAAxB,C;MAAA,C;KAFhD,C;wFAGA,yB;MAAA,
6B;MAAA,wB;QAEiD,qBAAK,IAAK,KAAL,GAAc,KAAM,KAAzB,C;MAAA,C;KAFjD,C;wEAGA,yB;MAAA,
6B;MAAA,mB;QAEgC,qBAAU,CAAL,SAAL,C;MAAA,C;KAFhC,C;8EAIA,yB;MAAA,0B;MAAA,mB;QAUm
C,OAAK,OAAL,SAAK,C;MAAL,C;KAVnC,C;gFAWA,yB;MAAA,4B;MAAA,mB;QAUqC,OAAK,QAAL,SAA
K,C;MAAL,C;KAVrC,C;;MAoBiC,gB;IAAA,C;8EACjC,yB;MAAA,kBASqD,sB;MATrD,mB;QASmC,OAAK,oB
AAL,SAAK,CAAL,iB;MAAA,C;KATnC,C;gFAWA,yB;MDoEJ,0B;MAAA,+B;MCpEI,mB;QASqC,ODsEA,eAA
W,OCtEX,SDsEW,CAAX,C;MCtEA,C;KATrC,C;kFAUA,yB;MC2DJ,4B;MAAA,iC;MD3DI,mB;QASuC,OC6DA
,gBAAY,QD7DZ,SC6DY,CAAZ,C;MD7DA,C;KATvC,C;;MAYmC,W;IAAA,C;gFACnC,yB;MAAA,kBAS6D,sB
;MAT7D,+B;MAAA,mB;QASqC,sBAAW,oBAAL,SAAK,CAAL,iBAAN,C;MAAA,C;KATrC,C;gFAWA,yB;MA
SA,gD;MATA,mB;QAQqC,OAOE,aAAa,SAAb,C;MAPF,C;KARrC,C;kFASA,yB;MAAA,gD;MAAA,mB;QAMu
C,oBAAa,SAAb,C;MAAA,C;KANvC,C;;MAQyC,OArDD,oBAAL,SAAK,CAAL,iBAqDe,W;IAAT,C;;;;;;MAzP7
C,c;MAG4D,qD;MAH5D,a;IAAA,C;;MAAA,2IAG4D,oCAH5D,G;IAAA,C;sEA6PA,yB;MAAA,6B;MAAA,4B;Q
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AAA,C;KAXzC,C;wEAYA,yB;MAAA,6B;MAAA,4B;QAUuC,qBAAK,SAAL,C;MAAA,C;KAVvC,C;wEAWA,y
B;MAAA,6B;MAAA,4B;QAWwC,qBAAK,SAAK,QAAV,C;MAAA,C;KAXxC,C;uEAaA,yB;MAAA,gD;MAAA,
4B;QASyC,oBAAkB,SAAlB,C;MAAA,C;KATzC,C;wEAUA,yB;MAAA,gD;MAAA,4B;QAS0C,oBAAa,SAAb,C
;MAAA,C;KAT1C,C;;M6BpTqB,sB;IAFrB,C;;MAagD,O7BiRT,S6BjRS,aAAQ,KAAR,C7BiRT,C;I6BjRS,C;;MA
SxC,aAAQ,KAAR,IAAiB,K7BmKY,K;I6BlKjC,C;;MAGsC,OAAA,YAAQ,O;IAAR,C;;MAGkB,8BAAS,YAAT,
C;IAAA,C;;MAEF,uB;MAA/B,oB;MACnB,eAAoB,C;IADF,C;;MAEO,sBAAQ,YAAM,O;IAAd,C;;MAC+B,Q;M
AA9B,IAAI,eAAQ,YAAM,OAAlB,C;QAAA,O7B4PK,S6B5PmB,aAAM,mBAAN,EAAM,2BAAN,O7B4PnB,C;;;
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AgC,OAAO,K;MAEvC,OAAe,WAAR,YAAQ,EAAS,O7B+IK,K6B/Id,C;IACnB,C;;MAGY,Q;MAA2B,gBAA3B,
gE;MAA2B,c;;Qbw4CvB,U;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,aAAO,I;UAAP,e;;QACrB,6B;QAAhB,
OAAgB,gBAAhB,C;UAAgB,2B;Uax4C6B,2Bbw4CR,Oax4CQ,O;UAAA,W;YAAsB,oBAAR,YAAQ,Ebw4C9B,O
hB7vCJ,K6B3IkC,C;;Ubw4C7C,IAAI,OAAJ,C;YAAyB,aAAO,K;YAAP,e;;;QAC/C,aAAO,I;;;Maz4CH,iB;IACJ,C
;;MAEkC,OAAA,IAAK,QAAQ,OAAb,KAAqB,C;IAArB,C;;;MA7ClC,mD;MACgC,sBAAK,eAAS,IAAT,CAAL,
C;MADhC,Y;IAAA,C;;;;;MAPJ,OAKqB,oDALrB,M;IAAA,C;;MAAA,c;MAKqB,wD;MALrB,a;IAAA,C;;MAAA
,2IAKqB,0CALrB,G;IAAA,C;8EAuDA,yB;MAAA,uC;;QAWoC,wB;UAAW,OAAA,aAAK,KAAL,C7B0HV,K;Q
6B1HD,C;MAAA,C;MAXpC,6B;QAWI,OAAO,mBAAU,gCAAS,IAAT,GAAe,sBAAf,CAAV,C;MACX,C;KAZA
,C;;MAiBkE,e;IAAA,C;;M8J9C9D,iC;MAjBsD,2BAAgB,KAAhB,EAAuB,YAAvB,EAAqC,CAArC,C;IAApC,C;;
MACe,iB;IAAA,C;;MACO,gB;IAAA,C;;MAEM,W3LuCoB,Y2LvCpB,U3LuCqC,KAAjB,E2LvCX,K3LuCwC,K
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,K;;MAAlB,W;IAAA,C;;MAEZ,O3LqCgC,Y2LrChC,U3LqCiD,KAAjB,E2LrCxB,S3LqCqD,KAA7B,C2LrChC,I;I
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CI,aAC8B,cAAU,4BAAK,UAAf,EAA0B,4BAAK,UAA/B,C;IAFlC,C;;;;MAAA,0C;QAAA,yB;;MAAA,mC;IAAA
,C;;;MAmDA,uC;MAjCI,IAAI,SAAQ,CAAZ,C;QAAuB,MAAa,gCAAyB,wBAAzB,C;MACpC,IAAI,SAAQ,WA

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C,C;IAAA,C;;MAGH,OAAI,YAAO,CAAX,G3Ld6B,Y2Lcf,U3LdgC,KAAjB,E2LcP,S3LdoC,KAA7B,C2Lcf,IAA
d,G3Ld6B,Y2LcG,U3Ldc,KAAjB,E2LcW,S3LdkB,KAA7B,C2LcG,I;IAAhC,C;;MAIzB,UAAwB,M;MADhC,iDA
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,UAAF,qBAAU,SAAV,cAAqB,SAAnC,GAAgD,UAAF,2BAAgB,SAAhB,eAA4B,CAAC,SAAD,IAA5B,C;IAA9
C,C;;MAElC,yC;IAAA,C;;MAS+F,2BAAgB,UAAhB,EAA4B,QAA5B,EAAsC,IAAtC,C;IAAA,C;;;;MAT/F,gD;Q
AAA,+B;;MAAA,yC;IAAA,C;;;MAoBwE,uB;MACxE,sBAA2B,I;MAC3B,iBAAmC,OAAO,CAA1C,G3L/CkE,Y
2L+CrB,K3L/CsC,KAAjB,E2L+CZ,I3L/CyC,KAA7B,C2L+CrB,KAA7C,G3L/CkE,Y2L+CF,K3L/CmB,KAAjB,E
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CI,IAAI,CAAC,cAAL,C;UAAc,MAAa,6B;QAC3B,iBAAU,K;;;QAEV,c3LzC6C,S2LyC7C,W3LzCuD,KAAK,G2
LyCpD,W3LzC+D,KAAX,IAAf,C;;M2L2CjD,OAAO,K;IACX,C;;;IClHJ,C;;MAIgC,uB;IAAA,C;;;IAMhC,C;;MA
IgC,wB;IAAA,C;;;IAMhC,C;;MAIgC,sB;IAAA,C;;;IAMhC,C;;MAIgC,uB;IAAA,C;;;M7J3B5B,6B;MAFyD,gB;IA
AnC,C;;MAEtB,+B;MACI,iBAGoC,a;MAEpC,iBAGoC,c;MAEpC,kBAGmC,C;MAEnC,iBAGkC,E;IAnBtC,C;;;;
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A,wB;QAM0D,OAyBS,aAAa,IAAK,KAAlB,EAA8B,ChCoK5D,eAAW,oBgC7LyB,KhC6L9B,KAAK,CAAL,UA
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ARA,wB;QAMyD,OASU,aAAa,IAAK,KAAlB,EAA8B,C/B4K5D,eAAW,oB+BrLwB,K/BqL7B,KAAK,CAAL,iB
AAN,C+B5K4D,MAA9B,C;MATV,C;KANzD,C;kGAQA,yB;MAAA,gD;MAAA,wB;QAOmE,oBAAa,IAAK,KA
AlB,EAAwB,KAAM,KAA9B,C;MAAA,C;KAPnE,C;4FASA,yB;MhCyJA,WAS6D,wB;MAT7D,+B;MgCzJA,wB;
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AhB,C;MAHD,C;KAFtD,C;4FAGA,yB;MAAA,+B;MAAA,wB;QAEuD,sBAAM,IAAK,KAAK,KAAK,KAAM,K
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AhB,C;MATA,C;KAFxD,C;8FAGA,yB;M9B0IA,aAS6D,0B;MAT7D,+B;M8B1IA,wB;QAEyD,OAMD,eAAM,IA
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C,C;KAFzD,C;8FAGA,yB;M/B8IA,kBAS6D,sB;MAT7D,+B;M+B9IA,wB;QAEuD,OAGC,eAAM,IAAK,KAAK,
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D,C;8FAGA,yB;MAAA,+B;MAAA,wB;QAEwD,sBAAM,IAAK,KAAK,UAAM,KAAM,KAAZ,CAAhB,C;MAA
A,C;KAFxD,C;8FAIA,yB;MhC+HA,WAS6D,wB;MAT7D,+B;MgC/HA,wB;QAEwD,OASA,eAAM,IAAK,KAA
K,UAAY,ChC6H/C,eAAW,oBgCtImB,KhCsIxB,KAAK,CAAL,UAAN,CgC7H+C,MAAZ,CAAhB,C;MATA,C;K
AFxD,C;8FAGA,yB;M9B6HA,aAS6D,0B;MAT7D,+B;M8B7HA,wB;QAEyD,OAMD,eAAM,IAAK,KAAK,UAA
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;8FAGA,yB;M/BiIA,kBAS6D,sB;MAT7D,+B;M+BjIA,wB;QAEuD,OAGC,eAAM,IAAK,KAAK,UAAY,C/BqI/C,
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FAIA,yB;MhCkHA,WAS6D,wB;MAT7D,+B;MgCzGA,8C;MATA,wB;QAEsD,OASA,YAAY,IAAZ,EhCgHjB,e
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HiB,C;MAHD,C;KAFrD,C;0FAGA,yB;MAAA,8C;MAAA,wB;QAEsD,mBAAY,IAAZ,EAAkB,KAAlB,C;MAAA
,C;KAFtD,C;0FAIA,yB;MhCqGA,WAS6D,wB;MAT7D,+B;MgC5FA,oD;MATA,wB;QAEsD,OASA,eAAe,IAAf,
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,K9B0GrB,KAAK,CAAL,YAAN,C8BpGiB,C;MANC,C;KAFvD,C;0FAGA,yB;M/BuGA,kBAS6D,sB;MAT7D,+B
;M+BpGA,oD;MAHA,wB;QAEqD,OAGC,eAAe,IAAf,E/B2GjB,eAAW,oB+B9Gc,K/B8GnB,KAAK,CAAL,iBAA
N,C+B3GiB,C;MAHD,C;KAFrD,C;0FAGA,yB;MAAA,oD;MAAA,wB;QAEsD,sBAAe,IAAf,EAAqB,KAArB,C;
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EAGA,yB;MAAA,+B;MAAA,mB;QAE0C,sBAAM,SAAK,MAAX,C;MAAA,C;KAF1C,C;kGAIA,yB;MAAA,gD;
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+BrEI,mB;QASmC,O/BuEC,c+BvED,S/BuEW,QAAV,C;M+BvED,C;KATnC,C;;MAYqC,W;IAAA,C;kFAErC,y
B;MASA,kD;MATA,mB;QAQqC,OASE,cAAc,SAAd,C;MATF,C;KARrC,C;oFASA,yB;MAAA,kD;MAAA,mB;
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AH7D,a;IAAA,C;;MAAA,2IAG6D,oCAH7D,G;IAAA,C;wEAgQA,yB;MAAA,+B;MAAA,4B;QAW0C,sBAAW,o
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1.132 yum 3.4.3-168.el7.centos

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1.143 swagger-annotations 2.0.7

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*/

package io.swagger.v3.oas.annotations.info;

import io.swagger.v3.oas.annotations.extensions.Extension;

import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
* The annotation may be used in {@link Info#license()} to define a license for the OpenAPI spec.
*
* @see <a target="_new" href="https://github.com/OAI/OpenAPI-
Specification/blob/3.0.1/versions/3.0.1.md#licenseObject">License (OpenAPI specification)</a>
* @see io.swagger.v3.oas.annotations.OpenAPIDefinition
* @see Info
**/
@Target({})
@Retention(RetentionPolicy.RUNTIME)
public @interface License {
  /**
   * The license name used for the API.
   *
   * @return the name of the license
   **/
```

```
  String name() default "";

  /**
   * A URL to the license used for the API. MUST be in the format of a URL.
   *
   * @return the URL of the license
   **/
  String url() default "";

  /**
   * The list of optional extensions
   *
   * @return an optional array of extensions
   */
  Extension[] extensions() default {};

}
```

1.144 aws-java-sdk-iottwinmaker 1.12.199

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1.145 jetty-util 9.4.18.v20190429

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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/* PRESENT 1 */
/* PRESENT 2 */
// PRESENT 3
/** ABSENT */
package/* ABSENT 1 */ normal
/* ABSENT 2 */

// COMMENTS: 3

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/* ABSENT */
class Some

// COMMENTS: 0
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Eclipse - in third_party/eclipse
gsutil = in third_party/gsutil
Guava - in third_party/guava
hamcrest - in third_party/hamcrest
Httplib2 - in samples/third_party/httplib2
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JUnit - in third_party/junit
Oauth - in samples/third_party/oauth2client
Rhino - in third_party/rhino
weberknecht - in third_party/weberknecht

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*/

package org.jetbrains.idl2k.util

import org.xml.sax.InputSource
import java.io.File
import javax.xml.xpath.XPathFactory

fun readCopyrightNoticeFromProfile(copyrightProfile: File): String {
  val template = copyrightProfile.reader().use { reader ->
    XPathFactory.newInstance().newXPath().evaluate("/component/copyright/option[@name='notice']/@value",
InputSource(reader))
  }
  val yearTemplate = "$today.year"
  val year = java.time.LocalDate.now().year.toString()
  assert(yearTemplate in template)

```
  return template.replace(yearTemplate, year).lines().joinToString("", prefix = "/*\n", postfix = " */\n") { " * $it\n" }
}
/* PRESENT */

fun some() {}

// COMMENTS: 1
```

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That's all there is to it!
/* PRESENT */

package normal

// COMMENTS: 1
Google Dart Js backend was removed - https://code.google.com/p/dart/source/detail?r=4771

According to http://www.apache.org/legal/3party.html we can include "Google Dart Js backend" in source form,
because code license is "New BSD License" (Authorized License).

This part of code will be removed when kotlin will be rewritten on kotlin.
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====
/* PRESENT */

foo()

// COMMENTS: 1
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/*
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*/

package org.jetbrains.kotlin.copyright

import junit.framework.AssertionFailedError
import org.jetbrains.kotlin.idea.copyright.UpdateKotlinCopyright
import org.jetbrains.kotlin.idea.test.KotlinLightCodeInsightFixtureTestCase
import org.jetbrains.kotlin.idea.test.PluginTestCaseBase
import org.jetbrains.kotlin.test.InTextDirectivesUtils
import org.junit.Assert
import java.io.File

```
abstract class AbstractUpdateKotlinCopyrightTest : KotlinLightCodeInsightFixtureTestCase() {
  fun doTest(path: String) {
    myFixture.configureByFile(path)

    val fileText = myFixture.file.text.trim()
    val expectedNumberOfComments = InTextDirectivesUtils.getPrefixedInt(fileText, "// COMMENTS: ") ?: run {
      if (fileText.isNotEmpty()) {
        throw AssertionFailedError("Every test should assert number of comments with `COMMENTS`
directive")
      } else {
        0
      }
    }

    val comments = UpdateKotlinCopyright.getExistentComments(myFixture.file)
    for (comment in comments) {
      val commentText = comment.text
      when {
        commentText.contains("PRESENT") -> {
        }
        commentText.contains("ABSENT") -> {
          throw AssertionFailedError("Unexpected comment found: `$commentText`")
        }
        else -> {
          throw AssertionFailedError("A comment with bad directive found: `$commentText`")
        }
      }
    }

    Assert.assertEquals(
      "Wrong number of comments found:\n${comments.joinToString(separator = "\n") { it.text }}\n",
      expectedNumberOfComments, comments.size
    )
  }

  override fun getTestDataPath() = File(PluginTestCaseBase.getTestDataPathBase(), "/copyright").path +
File.separator
}
/*
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*/

package tasks

import groovy.util.Node
import groovy.util.XmlParser
import org.gradle.api.DefaultTask
```

```
import org.gradle.api.Project
import org.gradle.api.tasks.Input
import org.gradle.api.tasks.InputFile
import org.gradle.api.tasks.OutputFile
import org.gradle.api.tasks.TaskAction
import java.io.File
import java.util.*



open class WriteCopyrightToFile : DefaultTask() {

  @InputFile
  var path = project.file("${project.rootDir}/.idea/copyright/apache.xml")

  @OutputFile
  var outputFile: File? = null

  @Input
  var commented: Boolean = true

  @TaskAction
  fun write() {
     if (commented) {
        outputFile!!.writeText(project.readCopyrightCommented())
     } else {
        outputFile!!.writeText(project.readCopyright())
     }
  }


  fun Project.readCopyright(): String {
     val file = rootDir.resolve(".idea/copyright/apache.xml")

     assert(file.exists()) {
        "File $file with copyright not found"
     }



     val xmlParser = XmlParser()
     val node = xmlParser.parse(file)
     assert(node.attribute("name") == "CopyrightManager") {
        "Format changed occasionally?"
     }

     val copyrightBlock = node.children().filterIsInstance<Node>().single()
     val noticeNode = copyrightBlock.children().filterIsInstance<Node>().single { it.attribute("name") == "notice" }
```

```
    return noticeNode.attribute("value").toString().replace("&#36;today.year",
GregorianCalendar()[Calendar.YEAR].toString())
  }

  fun Project.readCopyrightCommented(): String {
    return "/*\n" + readCopyright().prependIndent(" * ") + "\n */"
  }
}
```

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1.157 dropwizard-auth-ldap 1.0.4

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1.158 dbus-glib 0.100-7.el7

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1.172 apache-client 2.17.85

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Version 3, 29 June 2007

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xwd v1.0.7

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 <link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
 <link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
 <link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
 <link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
 <link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
 <link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
 <link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
 <link rel="manifest" href="/favicons/manifest.json">
 <link rel="shortcut icon" href="/favicons/favicon.ico">
 <meta name="msapplication-TileColor" content="#603cba">
 <meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
 <meta name="msapplication-config" content="/favicons/browserconfig.xml">
 <meta name="theme-color" content="#303284">

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 <link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
 <link href="/css/min.bootstrap.css" rel="stylesheet">
 <link href="/css/styles.css" rel="stylesheet">


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</head>

<body>
<!-- Navigation -->
<header>
 <nav class="navbar navbar-default navbar-fixed-top">
  <div class="container">
   <div class="navbar-header">
    <button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
     <span class="sr-only">Toggle navigation</span>
     <span class="icon-bar"></span>
     <span class="icon-bar"></span>
     <span class="icon-bar"></span>
```

```
      </button>
      <a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
    </div>
    <div class="collapse navbar-collapse" id="mainnav-collapse">
      <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a> &raquo <a
href="/licenses/">Licenses</a></div>
      <ul class="nav navbar-nav navbar-right">
        <li class="dropdown">
         <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
         <ul class="dropdown-menu" role="menu">
        <li><a href="/foundation">Overview</a></li>
        <li><a href="/foundation/members.html">Members</a></li>
        <li><a href="/foundation/how-it-works.html">Process</a></li>
        <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
        <li><a href="/foundation/glossary.html">Glossary</a></li>
        <li><a href="/foundation/preFAQ.html">FAQ</a></li>
        <li><a href="/foundation/contact.html ">Contact</a></li>
         </ul>
        </li>
  <li><a href="/index.html#projects-list">Projects</a></li>
    <li class="dropdown">
         <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
         <ul class="dropdown-menu" role="menu">
      <li><a href="http://people.apache.org/">Overview</a></li>
      <li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
      <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
      <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
      <li><a href="http://planet.apache.org/">Planet Apache</a></li>
         </ul>
        </li>
        <li class="dropdown">
          <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
          <ul class="dropdown-menu" role="menu">
            <li><a href="/foundation/getinvolved.html">Overview</a></li>
        <li><a href="http://community.apache.org/">Community Development</a></li>
              <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
        <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
          </ul>
    </li>
        <li><a href="/dyn/closer.cgi">Download</a></li>
        <li class="dropdown">
         <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
          <ul class="dropdown-menu" role="menu">
        <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
        <li><a href="/foundation/contributing.html">Donations</a></li>
        <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
```

```
        <li><a href="/foundation/thanks.html">Thanks</a></li>
         </ul>
        </li>
       </ul>
     </div>
   </div>
 </nav>
</header>
<!-- / Navigation -->
<div class="container">
 <div class="row">
   <div class="col-md-9 col-sm-8 col-xs-12">
     <img src="/img/asf_logo.png" alt="Apache Logo" style="max-width: 100%;">
   </div>
   <div class="col-md-3 col-sm-4 col-xs-12">
     <div class="input-group" style="margin-bottom: 5px;">
    <script>
 (function() {
   var cx = '005703438322411770421:5mgshgrgx2u';
   var gcse = document.createElement('script');
   gcse.type = 'text/javascript';
   gcse.async = true;
   gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
       '//cse.google.com/cse.js?cx=' + cx;
   var s = document.getElementsByTagName('script')[0];
   s.parentNode.insertBefore(gcse, s);
 })();
</script>
    <gcse:searchbox-only></gcse:searchbox-only>
   </div>
   <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
   <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
   <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
   </div>
 </div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
  It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
 visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
```

.headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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</pre>

<!-- Footer -->

<footer class="bg-primary">

        <h5 class="white">Community</h5>
        <ul class="list-unstyled white" role="menu">
    Overview

```
  <li><a href="/foundation/conferences.html">Conferences</a></li>
  <li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
  <li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
  <li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
  <li><a href="/travel/">Travel Assistance</a></li>
  <li><a href="/foundation/getinvolved.html">Get Involved</a></li>
  <li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>
      </ul>
</div>

<div class="col-sm-2">
 <h5 class="white">Innovation</h5>
      <ul class="list-unstyled white" role="menu">
  <li><a href="http://incubator.apache.org/">Incubator</a></li>
  <li><a href="http://labs.apache.org/">Labs</a></li>
  <li><a href="/licenses/">Licensing</a></li>
  <li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
  <li><a href="/foundation/marks/">Trademark Policy</a></li>
  <li><a href="/foundation/contact.html">Contacts</a></li>
      </ul>
</div>

<div class="col-sm-2">
 <h5 class="white">Tech Operations</h5>
     <ul class="list-unstyled white" role="menu">
   <li><a href="/dev/">Developer Information</a></li>
   <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
   <li><a href="/security/">Security</a></li>
   <li><a href="http://status.apache.org">Status</a></li>
   <li><a href="/foundation/contact.html">Contacts</a></li>
     </ul>
</div>

<div class="col-sm-2">
 <h5 class="white">Press</h5>
    <ul class="list-unstyled white" role="menu">
  <li><a href="/press/">Overview</a></li>
  <li><a href="https://blogs.apache.org/">ASF News</a></li>
  <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
  <li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
  <li><a href="/press/#contact">Contacts</a></li>
    </ul>
</div>

<div class="col-sm-2">
 <h5 class="white">Legal</h5>
    <ul class="list-unstyled white" role="menu">
  <li><a href="/legal/">Legal Affairs</a></li>
```

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Public Records
Privacy Policy
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<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
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cp package-kafka-serde-tools/target/kafka-serde-tools-package-<VERSION>-package/share/java/kafka-serde-tools/*.jar /tmp/jars/
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```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="utf-8">
 <meta http-equiv="X-UA-Compatible" content="IE=edge">
 <meta name="viewport" content="width=device-width, initial-scale=1">
 <meta name="description" content="Home page of The Apache Software Foundation">

 <link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
 <link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
 <link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
```

```
 <link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
 <link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
 <link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
 <link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
 <link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
 <link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
 <link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
 <link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
 <link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
 <link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
 <link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
 <link rel="manifest" href="/favicons/manifest.json">
 <link rel="shortcut icon" href="/favicons/favicon.ico">
 <meta name="msapplication-TileColor" content="#603cba">
 <meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
 <meta name="msapplication-config" content="/favicons/browserconfig.xml">
 <meta name="theme-color" content="#303284">

 <title>Licenses</title>
 <link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
 <link href="/css/min.bootstrap.css" rel="stylesheet">
 <link href="/css/styles.css" rel="stylesheet">


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</head>

<body>
<!-- Navigation -->
<header>
 <nav class="navbar navbar-default navbar-fixed-top">
  <div class="container">
   <div class="navbar-header">
    <button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
     <span class="sr-only">Toggle navigation</span>
     <span class="icon-bar"></span>
     <span class="icon-bar"></span>
     <span class="icon-bar"></span>
    </button>
```

```
      <a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
    </div>
    <div class="collapse navbar-collapse" id="mainnav-collapse">
      <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a> &raquo <a
href="/licenses/">Licenses</a></div>
      <ul class="nav navbar-nav navbar-right">
        <li class="dropdown">
         <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
         <ul class="dropdown-menu" role="menu">
        <li><a href="/foundation">Overview</a></li>
        <li><a href="/foundation/members.html">Members</a></li>
        <li><a href="/foundation/how-it-works.html">Process</a></li>
        <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
        <li><a href="/foundation/glossary.html">Glossary</a></li>
        <li><a href="/foundation/preFAQ.html">FAQ</a></li>
        <li><a href="/foundation/contact.html ">Contact</a></li>
         </ul>
        </li>
   <li><a href="/index.html#projects-list">Projects</a></li>
    <li class="dropdown">
         <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
         <ul class="dropdown-menu" role="menu">
      <li><a href="http://people.apache.org/">Overview</a></li>
      <li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
      <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
      <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
      <li><a href="http://planet.apache.org/">Planet Apache</a></li>
        </ul>
        </li>
        <li class="dropdown">
          <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
          <ul class="dropdown-menu" role="menu">
            <li><a href="/foundation/getinvolved.html">Overview</a></li>
        <li><a href="http://community.apache.org/">Community Development</a></li>
              <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
        <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
          </ul>
    </li>
        <li><a href="/dyn/closer.cgi">Download</a></li>
        <li class="dropdown">
         <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
          <ul class="dropdown-menu" role="menu">
        <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
        <li><a href="/foundation/contributing.html">Donations</a></li>
        <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
        <li><a href="/foundation/thanks.html">Thanks</a></li>
```

```
        </ul>
       </li>
      </ul>
     </div>
    </div>
  </nav>
</header>
<!-- / Navigation -->
<div class="container">
 <div class="row">
   <div class="col-md-9 col-sm-8 col-xs-12">
    <img src="/img/asf_logo.png" alt="Apache Logo" style="max-width: 100%;">
   </div>
   <div class="col-md-3 col-sm-4 col-xs-12">
    <div class="input-group" style="margin-bottom: 5px;">
    <script>
 (function() {
   var cx = '005703438322411770421:5mgshgrgx2u';
   var gcse = document.createElement('script');
   gcse.type = 'text/javascript';
   gcse.async = true;
   gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
      '//cse.google.com/cse.js?cx=' + cx;
   var s = document.getElementsByTagName('script')[0];
   s.parentNode.insertBefore(gcse, s);
 })();
</script>
    <gcse:searchbox-only></gcse:searchbox-only>
   </div>
   <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
   <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
   <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
   </div>
 </div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
  It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
 visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
```

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link">¶</h3>
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support a collaborative project.
<h1 id="submitting">Submitting License Agreements and Grants<a class="headerlink" href="#submitting"
title="Permanent link">¶</h1>
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and send only one document per fax.
If submitting by email, please fill the form with a pdf viewer,
print, sign, scan all pages into a single pdf file,
and email the pdf file as an attachment to secretary@apache.org. If possible,

send the attachment from the email address in the document.
Please send only one document per email.
If you prefer to sign electronically, please fill the form, save it locally (e.g. icla.pdf), and sign the file by preparing a detached PGP signature. For example,
<blockquote>
gpg --armor --detach-sign icla.pdf
</blockquote>
The above will create a file icla.pdf.asc. Send both the file and signature as attachments in the same email to secretary@apache.org. Please send only one document (file plus signature) per email. Please do not submit your public key to Apache. Instead, please upload your public key to pgpkeys.mit.edu.
The files typically are named
icla.pdf and icla.pdf.asc for individual agreements;
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<h1 id="questions">Questions?¶</h1>
For answers to frequently asked licensing questions, please consult our
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<!-- Footer -->

<footer class="bg-primary">

        <h5 class="white">Community</h5>
        <ul class="list-unstyled white" role="menu">
    Overview
    Conferences
    Summer of Code
    Getting Started
    The Apache Way
    Travel Assistance
    Get Involved
    Community FAQ


```
<div class="col-sm-2">
 <h5 class="white">Innovation</h5>
      <ul class="list-unstyled white" role="menu">
  <li><a href="http://incubator.apache.org/">Incubator</a></li>
  <li><a href="http://labs.apache.org/">Labs</a></li>
  <li><a href="/licenses/">Licensing</a></li>
  <li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
  <li><a href="/foundation/marks/">Trademark Policy</a></li>
  <li><a href="/foundation/contact.html">Contacts</a></li>
      </ul>
</div>

<div class="col-sm-2">
 <h5 class="white">Tech Operations</h5>
     <ul class="list-unstyled white" role="menu">
   <li><a href="/dev/">Developer Information</a></li>
   <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
   <li><a href="/security/">Security</a></li>
   <li><a href="http://status.apache.org">Status</a></li>
   <li><a href="/foundation/contact.html">Contacts</a></li>
     </ul>
</div>

<div class="col-sm-2">
 <h5 class="white">Press</h5>
    <ul class="list-unstyled white" role="menu">
  <li><a href="/press/">Overview</a></li>
  <li><a href="https://blogs.apache.org/">ASF News</a></li>
  <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
  <li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
  <li><a href="/press/#contact">Contacts</a></li>
    </ul>
</div>

<div class="col-sm-2">
 <h5 class="white">Legal</h5>
    <ul class="list-unstyled white" role="menu">
  <li><a href="/legal/">Legal Affairs</a></li>
  <li><a href="/licenses/">Licenses</a></li>
  <li><a href="/foundation/marks/">Trademark Policy</a></li>
  <li><a href="/foundation/records/">Public Records</a></li>
      <li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
  <li><a href="/licenses/exports/">Export Information</a></li>
  <li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
  <li><a href="/foundation/contact.html">Contacts</a></li>
    </ul>
</div>
```

```
    <div class="col-sm-1">
    </div>

  </div>
  <hr class="col-lg-12 hr-white" />
  <div class="row">
   <div class="col-lg-12">
    <p class="text-center">Copyright &amp;#169; 2016 The Apache Software Foundation, Licensed under the <a class="white" href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
    <p class="text-center">Apache and the Apache feather logo are trademarks of The Apache Software Foundation.</p>
   </div>
  </div>
 </div>

</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>
```

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: schema-registry
Source: https://github.com/confluentinc/schema-registry

Files: *
Copyright: 2015 Confluent, Inc.
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Files: debian/*
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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That's all there is to it!

1.189 netty-reactive-streams-http 2.0.5

1.189.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Bundle-Description: Reactive streams implementation for Netty.
Automatic-Module-Name: com.typesafe.netty.http
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-SymbolicName: com.typesafe.netty.reactive-streams-http
Built-By: marcospereira
Bnd-LastModified: 1602622977569
Bundle-ManifestVersion: 2
Bundle-DocURL: http://typesafe.com/
Bundle-Vendor: Typesafe
Import-Package: com.typesafe.netty;version="[2.0,3)",io.netty.buffer;v

ersion="[4.1,5)",io.netty.channel;version="[4.1,5)",io.netty.handler.
codec;version="[4.1,5)",io.netty.handler.codec.http;version="[4.1,5)"
,io.netty.handler.codec.http.websocketx;version="[4.1,5)",io.netty.ut
il;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",org.r
eactivestreams;version="[1.0,2)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.5.0.201709291849
Export-Package: com.typesafe.netty.http;uses:="io.netty.channel,io.net
ty.handler.codec.http,io.netty.handler.codec.http.websocketx,org.reac
tivestreams";version="2.0.5"
Bundle-Name: Netty Reactive Streams HTTP support
Bundle-Version: 2.0.5
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_181

Found in path(s):
* /opt/cola/permits/1169327406_1622201046.09/0/netty-reactive-streams-http-2-0-5-jar/META-INF/MANIFEST.MF

1.190 metrics-jvm 4.1.25

1.190.1 Available under license :

Apache-2.0

1.191 texinfo 5.1 5.el7

1.191.1 Available under license :

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From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c, file_io/unix/mktemp.c, strings/apr_strings.c:

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

*
* cvt - IEEE floating point formatting routines.
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*/

package java.security;

import java.io.Serializable;

/**
* Legacy security code; do not use.
*/
public abstract class Permission implements Guard, Serializable {
  public Permission(String name) { }

  public final String getName() { return null; }

  public void checkGuard(Object obj) throws SecurityException { }

  public PermissionCollection newPermissionCollection() {

```
        return new AllPermissionCollection();
    }

    public abstract String getActions();

    public abstract boolean implies(Permission permission);
}
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*   file name:  UBiDiProps.java
*   encoding:   US-ASCII
*   tab size:   8 (not used)
*   indentation:4
*
*   created on: 2005jan16
*   created by: Markus W. Scherer
*
*   Low-level Unicode bidi/shaping properties access.
*   Java port of ubidi_props.h/.c.
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<?xml version="1.0"?>

<!--

<code>Replaceable</code> is an interface representing a
string of characters that supports the replacement of a range of
itself with a new string of characters. It is used by APIs that
change a piece of text while retaining metadata. Metadata is data
other than the Unicode characters returned by char32At(). One
example of metadata is style attributes; another is an edit
history, marking each character with an author and revision number.

<p>An implicit aspect of the <code>Replaceable</code> API is that
during a replace operation, new characters take on the metadata of
the old characters. For example, if the string "the bold
font" has range (4, 8) replaced with "strong", then it becomes "the
strong font".

<p><code>Replaceable</code> specifies ranges using a start
offset and a limit offset. The range of characters thus specified
includes the characters at offset start..limit-1. That is, the
start offset is inclusive, and the limit offset is exclusive.

<p><code>Replaceable</code> also includes API to access characters
in the string: <code>length()</code>, <code>charAt()</code>,
<code>char32At()</code>, and <code>extractBetween()</code>.

<p>For a subclass to support metadata, typical behavior of
<code>replace()</code> is the following:

 Set the metadata of the new text to the metadata of the first
 character replaced
 If no characters are replaced, use the metadata of the
 previous character
 If there is no previous character (i.e. start == 0), use the
 following character
 If there is no following character (i.e. the replaceable was
 empty), use default metadata
 If the code point U+FFFF is seen, it should be interpreted as
 a special marker having no metadata

If this is not the behavior, the subclass should document any differences.

@author Alan Liu
@stable ICU 2.0

<code>ReplaceableString</code> is an adapter class that implements the
<code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.

<p>Note: This class does not support attributes and is not
intended for general use. Most clients will need to implement
{@link Replaceable} in their text representation class.

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@see Replaceable
@author Alan Liu
@stable ICU 2.0

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* /opt/cola/permits/1113034101_1607377129.99/0/antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/FailedPredicateException.java
* /opt/cola/permits/1113034101_1607377129.99/0/antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/atn/LookaheadEventInfo.java
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1.195 aws-java-sdk-waf 1.12.199

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*/

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import java.io.Serializable;

/**
* Legacy security code; do not use.
*/
public abstract class Permission implements Guard, Serializable {
  public Permission(String name) { }

  public final String getName() { return null; }

  public void checkGuard(Object obj) throws SecurityException { }
```

```
  public PermissionCollection newPermissionCollection() {
     return new AllPermissionCollection();
  }

  public abstract String getActions();

  public abstract boolean implies(Permission permission);
}
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*   file name:  UBiDiProps.java
*   encoding:   US-ASCII
*   tab size:   8 (not used)
*   indentation:4
*
*   created on: 2005jan16
*   created by: Markus W. Scherer
*
*   Low-level Unicode bidi/shaping properties access.
*   Java port of ubidi_props.h/.c.
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This locale data is based on the ICU's Vietnamese locale data (rev. 1.38)
found at:

http://oss.software.ibm.com/cvs/icu/icu/source/data/locales/vi.txt?rev=1.38

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Version 2, June 1991

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<!--

<code>Replaceable</code> is an interface representing a
string of characters that supports the replacement of a range of
itself with a new string of characters. It is used by APIs that
change a piece of text while retaining metadata. Metadata is data
other than the Unicode characters returned by char32At(). One
example of metadata is style attributes; another is an edit
history, marking each character with an author and revision number.

<p>An implicit aspect of the <code>Replaceable</code> API is that
during a replace operation, new characters take on the metadata of
the old characters. For example, if the string "the bold
font" has range (4, 8) replaced with "strong", then it becomes "the
strong font".

<p><code>Replaceable</code> specifies ranges using a start
offset and a limit offset. The range of characters thus specified
includes the characters at offset start..limit-1. That is, the
start offset is inclusive, and the limit offset is exclusive.

<p><code>Replaceable</code> also includes API to access characters
in the string: <code>length()</code>, <code>charAt()</code>,
<code>char32At()</code>, and <code>extractBetween()</code>.

<p>For a subclass to support metadata, typical behavior of
<code>replace()</code> is the following:

 Set the metadata of the new text to the metadata of the first
 character replaced
 If no characters are replaced, use the metadata of the
 previous character
 If there is no previous character (i.e. start == 0), use the
 following character
 If there is no following character (i.e. the replaceable was
 empty), use default metadata
 If the code point U+FFFF is seen, it should be interpreted as
 a special marker having no metadata

If this is not the behavior, the subclass should document any differences.

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@author Alan Liu
@stable ICU 2.0

<code>ReplaceableString</code> is an adapter class that implements the
<code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.

<p>Note: This class does not support attributes and is not
intended for general use. Most clients will need to implement
{@link Replaceable} in their text representation class.

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@see Replaceable
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@stable ICU 2.0

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1.205 dropwizard-validation 2.0.25

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* /opt/cola/permits/1463015675_1667606622.8529255/0/dropwizard-validation-2-0-25-sources-1-jar/io/dropwizard/validation/InterpolationHelper.java

1.206 pycurl 7.19.0

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or

link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

``This License'' refers to version 3 of the GNU General Public License.

``Copyright'' also means copyright-like laws that apply to other kinds

of works, such as semiconductor masks.

``The Program'' refers to any copyrightable work licensed under this License. Each licensee is addressed as ``you''. ``Licensees'' and ``recipients'' may be individuals or organizations.

To ``modify'' a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a ``modified version'' of the earlier work or a work ``based on'' the earlier work.

A ``covered work'' means either the unmodified Program or a work based on the Program.

To ``propagate'' a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To ``convey'' a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays ``Appropriate Legal Notices'' to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

@item Source Code.

The ``source code'' for a work means the preferred form of the work for making modifications to it. ``Object code'' means any non-source form of a work.

A ``Standard Interface'' means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The ``System Libraries'' of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of

packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A ``Major Component'', in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The ``Corresponding Source'' for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

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@item Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

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The work must carry prominent notices stating that you modified it, and giving a relevant date.

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You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

@enumerate a
@item
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@item
Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you

offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

@item
Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

@item
Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

@item
Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

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If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

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HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and

Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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* m4/ax_func_which_gethostbyname_r.m4

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That's all there is to it!
GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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Version 3, 29 June 2007

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1.213 util-linux 2.23.2-65.el7_9.1

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*/
size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---
#1:        32       7648  0x83
#2:      7680       8704  0xa5
#5:      7936       4864  0x7 (freebsd)
#6:     12544       3584  0x7 (freebsd)
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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

```
   Device Boot      Start         End      Blocks   Id  System
------------------

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

   Device Boot      Start         End      Blocks   Id  System
__ts_dev__1            2048        4095        1024   83  Linux
------------------

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

   Device Boot      Start         End      Blocks   Id  System
__ts_dev__1            2048        4095        1024   83  Linux
__ts_dev__2            4096       20479        8192   a5  FreeBSD
------------------

Create default BSD
2e1cee529cb59c9341afef0443f196a1 bsd.img

---layout----------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.


Command (m for help):

BSD disklabel command (m for help):
```

4 partitions:
start end size fstype [fsize bsize cpg]
 c: 4096 20479 16384 unused 0 0
 d: 0 16064 16065 unused 0 0

BSD disklabel command (m for help):
Command (m for help):
---

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout----------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
start end size fstype [fsize bsize cpg]
 a: 4096 6144 2049 4.2BSD 0 0 0
 c: 4096 20479 16384 unused 0 0
 d: 0 16064 16065 unused 0 0

BSD disklabel command (m for help):
Command (m for help):

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0 unused 5 4.1BSD 9 4.4LFS d boot
1 swap 6 Eighth Edition a unknown e ADOS
2 Version 6 7 4.2BSD b HPFS f HFS
3 Version 7 8 MS-DOS c ISO-9660 10 AdvFS
4 System V

BSD disklabel command (m for help):

1.214 aws-java-sdk-route53resolver 1.12.199

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1.215 nspr 4.32.0-1.el7_9

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1.219 mime-pull 1.9.13

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* Project: https://ant.apache.org/

* Source:
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* Project:
  https://maven.apache.org/plugin-tools/maven-plugin-annotations/project-info.html
* Source:
  https://github.com/apache/maven-plugin-tools/tree/maven-plugin-tools-3.5.1/maven-plugin-annotations

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  http://schemas.xmlsoap.org/ws/2005/02/rm/wsrm.xsd;%20http://schemas.xmlsoap.org/ws/2005/02/rm/wsrm-policy.xsd

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1.220 aws-java-sdk-sso 1.12.199

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1.221 audit 2.8.5 4.el7

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1.222 xml-apis 1.4.01

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xml-commons/java/external/README.dom.txt $Id: README.dom.txt 477038 2006-11-20 04:40:36Z mrglavas $

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http://www.w3.org/TR/2004/REC-DOM-Level-3-LS-20040407/
http://www.w3.org/TR/2004/NOTE-DOM-Level-3-XPath-20040226/

The specification of DOM Level 2's various parts is at:
http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Style-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/

The specification of DOM Level 1's various parts is at:
http://www.w3.org/TR/1998/REC-DOM-Level-1-19981001/level-one-html.html

Links to all available W3C DOM Java Bindings can be found at:
http://www.w3.org/DOM/DOMTR

The actual classes of The Simple API for CSS (SAC) came from:
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http://www.w3.org/2002/06/sacjava-1.3.zip

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1.237 libuser 0.60 9.el7

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1.238 guice 4.2.3

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* /opt/cola/permits/1463017950_1667606598.104468/0/aws-java-sdk-sagemakeredgemanager-1-12-199-sources-jar/com/amazonaws/services/sagemakeredgemanager/AmazonSagemakerEdgeManager.java
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jar/com/amazonaws/services/sagemakeredgemanager/model/transform/ModelMarshaller.java
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* /opt/cola/permits/1463017950_1667606598.104468/0/aws-java-sdk-sagemakeredgemanager-1-12-199-sources-jar/com/amazonaws/services/sagemakeredgemanager/model/EdgeMetric.java

1.240 aws-java-sdk-glue 1.12.199

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1.242 compress-lzf 1.0.2

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It was started at Ning, inc., as an official Open Source process used by
platform backend, but after initial versions has been developed outside of
Ning by supporting community.

Other contributors include:

* Jon Hartlaub (first versions of streaming reader/writer; unit tests)
* Cedrik Lime: parallel LZF implementation

Various community members have contributed bug reports, and suggested minor
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1.244 jetty-continuation 9.4.18.v20190429

1.245 animal-sniffer-annotation 1.19

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1.246 dropwizard-util 2.0.25

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1.247 easymock 3.4

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* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/JsonStreamParser.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/FieldAttributes.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/JsonParser.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/LongSerializationPolicy.java
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* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/ToNumberPolicy.java
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* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/stream/MalformedJsonException.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/stream/JsonWriter.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/stream/JsonToken.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/stream/JsonReader.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/stream/JsonScope.java
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* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/JsonSyntaxException.java
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* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/internal/bind/JsonAdapterAnnotationTypeAdapterFactory.java
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* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/JsonElement.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/internal/Excluder.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/ExclusionStrategy.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/JsonParseException.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/internal/$Gson$Preconditions.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/JsonIOException.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/JsonObject.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/InstanceCreator.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/internal/Primitives.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/JsonNull.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/annotations/SerializedName.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/JsonDeserializationContext.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/FieldNamingPolicy.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/JsonPrimitive.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/FieldNamingStrategy.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/Gson.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/JsonSerializer.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/JsonSerializationContext.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/annotations/Since.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/JsonDeserializer.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/reflect/TypeToken.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/internal/ObjectConstructor.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/internal/bind/DefaultDateTypeAdapter.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/annotations/Expose.java

* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/GsonBuilder.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/JsonArray.java
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1.258 aws-java-sdk-mq 1.12.199

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1.259 jul-to-slf4j 1.7.32

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1.260 kotlinx-coroutines-core 1.1.1

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1.261 netty-codec-http 4.1.69.Final

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* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/HttpChunkedInput.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionUtil.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawDecoder.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-

jar/io/netty/handler/codec/http/HttpMessageUtil.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateEncoder.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateEncoder.java
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* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerFrameDeflateEncoder.java
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* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtensionHandshaker.java
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* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/rtsp/RtspHeaderNames.java
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* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/PingWebSocketFrame.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/Cookie.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/multipart/FileUpload.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/multipart/AbstractMemoryHttpData.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/package-info.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/HttpContentDecompressor.java

* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/HttpRequestEncoder.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker08.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/DefaultHttpObject.java

1.262 byte-buddy 1.11.0

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1.263 xerces-j 2.12.2

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* /opt/cola/permits/1463017339_1667607203.7334187/0/aws-java-sdk-ssooidc-1-12-199-sources-jar/com/amazonaws/services/ssooidc/model/transform/CreateTokenRequestProtocolMarshaller.java
* /opt/cola/permits/1463017339_1667607203.7334187/0/aws-java-sdk-ssooidc-1-12-199-sources-jar/com/amazonaws/services/ssooidc/AWSSSOOIDCAsyncClient.java
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* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/Behavior.java
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* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/NamedFieldInjection.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/Injectors.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/behaviors/Synchronizing.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/ComponentFactory.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/adapters/AbstractAdapter.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/BehaviorFactory.java
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* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/parameters/BasicComponentParameter.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/annotations/Cache.java
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* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/SetterInjector.java
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* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/behaviors/Synchronized.java
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* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/behaviors/Locked.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/behaviors/HiddenImplementation.java
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* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/annotations/Nullable.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/DefaultPicoContainer.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/AnnotatedFieldInjection.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/behaviors/AdaptingBehavior.java
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* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/behaviors/Locking.java
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* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/behaviors/PropertyApplicator.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/Characteristics.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/PicoClassNotFoundException.java
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* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/behaviors/ImplementationHiding.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-

jar/org/picocontainer/PicoBuilder.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/TypedFieldInjector.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/NamedFieldInjector.java
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* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-

jar/org/picocontainer/Disposable.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/Startable.java
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/behaviors/AbstractBehaviorFactory.java
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* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/containers/PropertiesPicoContainer.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/containers/CommandLineArgumentsPicoContainer.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/ForgetfulConstructorInjection.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/behaviors/Intercepted.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/SingleMemberInjector.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/containers/SystemPropertiesPicoContainer.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/behaviors/Intercepting.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/ParameterNameBinding.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/MethodInjector.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/parameters/AbstractParameter.java

* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/PicoLifecycleException.java
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* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/references/ThreadLocalReference.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-

jar/org/picocontainer/injectors/CompositeInjection.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/Injector.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/ComponentMonitorStrategy.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/behaviors/Stored.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/references/SimpleReference.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/ComponentLifecycle.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/ProviderAdapter.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/Reinjector.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/behaviors/Guarded.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/InjectInto.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/MultiInjection.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/Provider.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/Injector.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/MultiInjector.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/FactoryInjector.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/references/ThreadLocalMapObjectReference.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/CompositeInjector.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/security/CustomPermissionsURLClassLoader.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/ObjectReference.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/injectors/Reinjection.java
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* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/BindKey.java
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/MutablePicoContainer.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/containers/CompositePicoContainer.java
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/Parameter.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/parameters/ConstantParameter.java
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*                                                                           *
* Original code by Joerg Schaibe                                           *
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/behaviors/Decorating.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/behaviors/FieldDecorating.java
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/containers/AbstractDelegatingMutablePicoContainer.java
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* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/classname/ClassLoadingPicoContainer.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/parameters/DefaultConstructorParameter.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/classname/ClassName.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/classname/DefaultClassLoadingPicoContainer.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/parameters/NullParameter.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/classname/ClassPathElement.java

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* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/visitors/TraversalCheckingVisitor.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/Converters.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/lifecycle/DefaultLifecycleState.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/PicoVisitor.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/LifecycleStrategy.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/converters/Converter.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/lifecycle/ReflectionLifecycleStrategy.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/visitors/AbstractPicoVisitor.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/lifecycle/StartableLifecycleStrategy.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/lifecycle/CompositeLifecycleStrategy.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/visitors/MethodCallingVisitor.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/lifecycle/AbstractMonitoringLifecycleStrategy.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/lifecycle/LifecycleState.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/ComponentAdapter.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/lifecycle/ReflectionLifecycleException.java
* /opt/ws_local/PERMITS_SQL/1013480939_1590521618.42/0/picocontainer-2-15-sources-1-jar/org/picocontainer/lifecycle/JavaEE5LifecycleStrategy.java
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1.272 dropwizard-configuration 2.0.25

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1.273 aws-java-sdk-ram 1.12.199

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1.276 geoipupdate 2.5.0 1.el7

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1.285 jetty-io 9.4.18.v20190429

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
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org.eclipse.jetty.toolchain:jetty-schemas

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analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt
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analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
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1.305 aws-java-sdk-quicksight 1.12.199

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   * Version.
   * </p>
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/**
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   *
   * @param version
   *        Version.
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1.306 scala 2.12.10

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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
    Either create a single parameter accepting the Tuple2,
    or consider a pattern matching anonymous function: `{ case (a, b) => ... }
 val x: ((Int, Int) => Int) = (((a, b)) => a)
                         ^
not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
    Either create a single parameter accepting the Tuple2,
    or consider a pattern matching anonymous function: `{ case (param1, param2) => ... }
 val y: ((Int, Int, Int) => Int) = (((a, !!)) => a)
                              ^
not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
    Either create a single parameter accepting the Tuple3,
    or consider a pattern matching anonymous function: `{ case (param1, ..., param3) => ... }
 val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
                              ^
three errors found
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1.313 libgpg-error 1.12 3.el7

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under

Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the

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source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library

creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the

Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.319 aws-java-sdk-opsworkscm 1.12.199

1.319.1 Available under license :

Apache-2.0

1.320 aws-java-sdk-translate 1.12.199

1.320.1 Available under license :

No license file was found, but licenses were detected in source scan.

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1.321 jakarta-ws-rs-api 2.1.6

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* Project home: https://projects.eclipse.org/projects/ee4j.jaxrs

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Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaxrs-api

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* Source: https://github.com/mockito/mockito/releases/tag/v2.16.0

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* /opt/cola/permits/1221869477_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-jar/io/netty/resolver/dns/DefaultAuthoritativeDnsServerCache.java
* /opt/cola/permits/1221869477_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-jar/io/netty/resolver/dns/DnsCnameCache.java
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* /opt/cola/permits/1221869477_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-jar/io/netty/resolver/dns/DnsNameResolver.java
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Version 2, June 1991

[This is the first released version of the library GPL. It is
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1.335 openssl 1.0.2k-25.el7_9

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1.336 e2fsprogs 1.42.9-19.el7

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#
This is a Makefile stub which handles the creation of BSD shared
libraries.
#
In order to use this stub, the following makefile variables must be defined.
#
BSDLIB_VERSION = 1.0

```
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
 @echo " MKDIR pic"
 @mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:  $(BSD_LIB)

$(BSD_LIB): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
 $(MV) pic/$(BSD_LIB) .
 $(RM) -f ../$(BSD_LIB)
 (cd ..; $(LN) $(LINK_BUILD_FLAGS) \
  `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
 @echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
 @$(INSTALL_PROGRAM) $(BSD_LIB) \
  $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
 @-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
 $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
 $(RM) -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
```

This package was added to the e2fsprogs debian source package by
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===
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
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-   trivial database library - private includes
-
-   Copyright (C) Andrew Tridgell   2005
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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/NameMapper.java

* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/FileSource.java
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* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/timestamps/PreJava8TimestampStrategy.java
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* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/timestamps/TimestampStrategy.java
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* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/timestamps/TimestampStrategyFactory.java
* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/ZipEntryCallback.java

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 analysis/common/src/java/net/sf/snowball
were developed by Martin Porter and Richard Boulton.
The snowball stopword lists in
 analysis/common/src/resources/org/apache/lucene/analysis/snowball
were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
 http://snowball.tartarus.org/

The KStem stemmer in
 analysis/common/src/org/apache/lucene/analysis/en
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst)
under the BSD-license.

The Arabic,Persian,Romanian,Bulgarian, and Hindi analyzers (common) come with a default
stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:
analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt
See http://members.unine.ch/jacques.savoy/clef/index.html.

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and
Ljiljana Dolamic. These files reside in:
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

The Stempel analyzer (stempel) includes BSD-licensed software developed
by the Egothor project http://egothor.sf.net/, created by Leo Galambos, Martin Kvapil,
and Edmond Nolan.

The Polish analyzer (stempel) comes with a default
stopword list that is BSD-licensed created by the Carrot2 project. The file resides
in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.
See http://project.carrot2.org/license.html.

The SmartChineseAnalyzer source code (smartcn) was
provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

WordBreakTestUnicode_*.java (under modules/analysis/common/src/test/)
is derived from Unicode data such as the Unicode Character Database.
See http://unicode.org/copyright.html for more details.

The Morfologik analyzer (morfologik) includes BSD-licensed software
developed by Dawid Weiss and Marcin Mikowski (http://morfologik.blogspot.com/).

Morfologik uses data from Polish ispell/myspell dictionary
(http://www.sjp.pl/slownik/en/) licenced on the terms of (inter alia)
LGPL and Creative Commons ShareAlike.

Morfologic includes data from BSD-licensed dictionary of Polish (SGJP)
(http://sgjp.pl/morfeusz/)

Servlet-api.jar and javax.servlet-*.jar are under the CDDL license, the original
source code for this can be found at http://www.eclipse.org/jetty/downloads.php

==
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
==

This software includes a binary and/or source version of data from

mecab-ipadic-2.7.0-20070801

which can be obtained from

http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz

or

http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz

==
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1.360 aws-java-sdk-lookoutequipment 1.12.199

1.360.1 Available under license :

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1.361 handy-uri-templates 2.1.8

1.361.1 Available under license :

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1057884761_1592369589.04/0/handy-uri-templates-2-1-8-sources-jar/com/damnhandy/uri/template/MalformedUriTemplateException.java
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1057884761_1592369589.04/0/handy-uri-templates-2-1-8-sources-jar/META-INF/maven/com.damnhandy/handy-uri-templates/pom.xml

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*/
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1057884761_1592369589.04/0/handy-uri-templates-2-1-8-sources-jar/com/damnhandy/uri/template/impl/Operator.java
* /opt/ws_local/PERMITS_SQL/1057884761_1592369589.04/0/handy-uri-templates-2-1-8-sources-jar/com/damnhandy/uri/template/VariableExpansionException.java
* /opt/ws_local/PERMITS_SQL/1057884761_1592369589.04/0/handy-uri-templates-2-1-8-sources-jar/com/damnhandy/uri/template/impl/Modifier.java
* /opt/ws_local/PERMITS_SQL/1057884761_1592369589.04/0/handy-uri-templates-2-1-8-sources-jar/com/damnhandy/uri/template/UriTransient.java
* /opt/ws_local/PERMITS_SQL/1057884761_1592369589.04/0/handy-uri-templates-2-1-8-sources-jar/com/damnhandy/uri/template/VarName.java
* /opt/ws_local/PERMITS_SQL/1057884761_1592369589.04/0/handy-uri-templates-2-1-8-sources-jar/com/damnhandy/uri/template/impl/VarExploderFactory.java
* /opt/ws_local/PERMITS_SQL/1057884761_1592369589.04/0/handy-uri-templates-2-1-8-sources-jar/com/damnhandy/uri/template/impl/UriTemplateParser.java
* /opt/ws_local/PERMITS_SQL/1057884761_1592369589.04/0/handy-uri-templates-2-1-8-sources-jar/com/damnhandy/uri/template/UriUtil.java
* /opt/ws_local/PERMITS_SQL/1057884761_1592369589.04/0/handy-uri-templates-2-1-8-sources-jar/com/damnhandy/uri/template/UriTemplate.java
* /opt/ws_local/PERMITS_SQL/1057884761_1592369589.04/0/handy-uri-templates-2-1-8-sources-jar/com/damnhandy/uri/template/impl/VarSpec.java
* /opt/ws_local/PERMITS_SQL/1057884761_1592369589.04/0/handy-uri-templates-2-1-8-sources-jar/com/damnhandy/uri/template/VarExploder.java
* /opt/ws_local/PERMITS_SQL/1057884761_1592369589.04/0/handy-uri-templates-2-1-8-sources-jar/com/damnhandy/uri/template/Expression.java
* /opt/ws_local/PERMITS_SQL/1057884761_1592369589.04/0/handy-uri-templates-2-1-8-sources-jar/com/damnhandy/uri/template/DefaultVarExploder.java

1.362 aop-alliance 1.0

1.362.1 Available under license :

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1.363 ca-certificates 2022.2.54-74.el7_9

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* /opt/cola/permits/1425443200_1664017022.0583818/0/ca-certificates-2022.2.54-74.el7_9.src.rpm-cosi-expand-archive-GCjLhYzR/ca-certificates.spec
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////

ca-legacy(8)
============
:doctype: manpage
:man source: ca-legacy

NAME
---
ca-legacy - Manage the system configuration for legacy CA certificates

SYNOPSIS
----
ca-legacy ['COMMAND']

DESCRIPTION
----
ca-legacy(8) is used to include or exclude a set of legacy Certificate Authority (CA)
certificates in the system's list of trusted CA certificates.

The list of CA certificates and trust flags included in the ca-certificates package
are based on the decisions made by Mozilla.org according to the Mozilla CA policy.

Occasionally, removal or distrust decisions made by Mozilla.org might be incompatible with the requirements
or limitations of some applications that also use the CA certificates list in the Linux environment.

The ca-certificates package might keep some CA certificates included and trusted by default,
as long as it is seen necessary by the maintainers, despite the fact that they have
been removed by Mozilla. These certificates are called legacy CA certificates.

The general requirements to keep legacy CA certificates included and trusted might change over time,
for example if functional limitations of software packages have been resolved.
Future versions of the ca-certificates package might reduce the set of legacy CA certificates
that are included and trusted by default.

The ca-legacy(8) command can be used to override the default behaviour.

The mechanisms to individually trust or distrust CA certificates as described in update-ca-trust(8) still apply.

COMMANDS
----
check::
  The current configuration will be shown.

default::
  Configure the system to use the default configuration, as recommended
  by the package maintainers.

disable::
  Configure the system to explicitly disable legacy CA certificates.
  Using this configuration, the system will use the set of

included and trusted CA certificates as released by Mozilla.

install::
The configuration file will be read and the system configuration
will be set accordingly. This command is executed automatically during
upgrades of the ca-certificates package.

FILES

/etc/pki/ca-trust/ca-legacy.conf::
A configuration file that will be used and modified by the ca-legacy command.
The contents of the configuration file will be read on package upgrades.

AUTHOR

Written by Kai Engert.

Found in path(s):
* /opt/cola/permits/1425443200_1664017022.0583818/0/ca-certificates-2022.2.54-74.el7_9.src.rpm-cosi-expand-archive-GCjLhYzR/ca-legacy.8.txt
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////

////

update-ca-trust(8)
==========
:doctype: manpage
:man source: update-ca-trust

NAME
----
update-ca-trust - manage consolidated and dynamic configuration of CA
certificates and associated trust

SYNOPSIS
---
update-ca-trust ['COMMAND']

DESCRIPTION
---
update-ca-trust(8) is used to manage a consolidated and dynamic configuration
feature of Certificate Authority (CA) certificates and associated trust.

The feature is available for new applications that read the
consolidated configuration files found in the /etc/pki/ca-trust/extracted directory
or that load the PKCS#11 module p11-kit-trust.so

Parts of the new feature are also provided in a way to make it useful
for legacy applications.

Many legacy applications expect CA certificates and trust configuration
in a fixed location, contained in files with particular path and name,
or by referring to a classic PKCS#11 trust module provided by the
NSS cryptographic library.

The dynamic configuration feature provides functionally compatible replacements
for classic configuration files and for the classic NSS trust module named libnssckbi.

In order to enable legacy applications, that read the classic files or
access the classic module, to make use of the new consolidated and dynamic configuration
feature, the classic filenames have been changed to symbolic links.
The symbolic links refer to dynamically created and consolidated
output stored below the /etc/pki/ca-trust/extracted directory hierarchy.

The output is produced using the 'update-ca-trust' command (without parameters),
or using the 'update-ca-trust extract' command.
In order to produce the output, a flexible set of source configuration
is read, as described in section <<sourceconf,SOURCE CONFIGURATION>>.

In addition, the classic PKCS#11 module
is replaced with a new PKCS#11 module (p11-kit-trust.so) that dynamically
reads the same source configuration.

[[sourceconf]]
SOURCE CONFIGURATION

The dynamic configuration feature uses several source directories that
will be scanned for any number of source files. *It is important to select

the correct subdirectory for adding files, as the subdirectory defines how
contained certificates will be trusted or distrusted, and which file formats are read.*

Files in *subdirectories below the directory hierarchy /usr/share/pki/ca-trust-source/* contain CA certificates and trust settings in the PEM file format. The trust settings found here will be
interpreted with a *low priority*.

Files in *subdirectories below the directory hierarchy /etc/pki/ca-trust/source/* contain CA certificates and trust settings in the PEM file format. The trust settings found here will be
interpreted with a *high priority*.

.You may use the following rules of thumb to decide, whether your configuration files should be added to the /etc or rather to the /usr directory hierarchy:
* If you are manually adding a configuration file to a system, you probably
want it to override any other default configuration, and you most likely should
add it to the respective subdirectory in the /etc hierarchy.
* If you are creating a package that provides additional root CA certificates,
that is intended for distribution to several computer systems, but you still
want to allow the administrator to override your list, then your package should
add your files to the respective subdirectory in the /usr hierarchy.
* If you are creating a package that is supposed to override the default system
trust settings, that is intended for distribution to several computer systems, then your package should install the files to the respective
subdirectory in the /etc hierarchy.

.*QUICK HELP 1*: To add a certificate in the simple PEM or DER file formats to the list of CAs trusted on the system:
* add it as a new file to directory /etc/pki/ca-trust/source/anchors/
* run 'update-ca-trust extract'

.*QUICK HELP 2*: If your certificate is in the extended BEGIN TRUSTED file format (which may contain distrust/blacklist trust flags, or trust flags for usages other than TLS) then:
* add it as a new file to directory /etc/pki/ca-trust/source/
* run 'update-ca-trust extract'

.In order to offer simplicity and flexibility, the way certificate files are treated depends on the subdirectory they are installed to.
* simple trust anchors subdirectory: /usr/share/pki/ca-trust-source/anchors/ or /etc/pki/ca-trust/source/anchors/
* simple blacklist (distrust) subdirectory: /usr/share/pki/ca-trust-source/blacklist/ or /etc/pki/ca-trust/source/blacklist/
* extended format directory: /usr/share/pki/ca-trust-source/ or /etc/pki/ca-trust/source/

.In the main directories /usr/share/pki/ca-trust-source/ or /etc/pki/ca-trust/source/ you may install one or multiple files in the following file formats:
* certificate files that include trust flags,
in the BEGIN/END TRUSTED CERTIFICATE file format
(any file name), which have been created using the openssl x509 tool
and the -addreject -addtrust options.
Bundle files with multiple certificates are supported.

* files in the p11-kit file format using the .p11-kit file name
 extension, which can (e.g.) be used to distrust certificates
 based on serial number and issuer name, without having the
 full certificate available.
 (This is currently an undocumented format, to be extended later.
  For examples of the supported formats, see the files
  shipped with the ca-certificates package.)
* certificate files without trust flags in either the DER file format or in
 the PEM (BEGIN/END CERTIFICATE) file format (any file name). Such files
 will be added with neutral trust, neither trusted nor distrusted.
 They will simply be known to the system, which might be helpful to
 assist cryptographic software in constructing chains of certificates.
 (If you want a CA certificate in these file formats to be trusted, you
  should remove it from this directory and move it to the
  ./anchors subdirectory instead.)

In the anchors subdirectories /usr/share/pki/ca-trust-source/anchors/ or /etc/pki/ca-trust/source/anchors/
you may install one or multiple certificates in either the DER file
format or in the PEM (BEGIN/END CERTIFICATE) file format.
Each certificate will be treated as *trusted* for all purposes.

In the blacklist subdirectories /usr/share/pki/ca-trust-source/blacklist/ or /etc/pki/ca-trust/source/blacklist/
you may install one or multiple certificates in either the DER file
format or in the PEM (BEGIN/END CERTIFICATE) file format.
Each certificate will be treated as *distrusted* for all purposes.

Please refer to the x509(1) manual page for the documentation of the
BEGIN/END CERTIFICATE and BEGIN/END TRUSTED CERTIFICATE file formats.

Applications that rely on a static file for a list of trusted CAs
may load one of the files found in the /etc/pki/ca-trust/extracted
directory. After modifying any file in the
/usr/share/pki/ca-trust-source/ or /etc/pki/ca-trust/source/
directories or in any of their subdirectories, or after adding a file,
it is necessary to run the 'update-ca-trust extract' command,
in order to update the consolidated files in /etc/pki/ca-trust/extracted/ .

Applications that load the classic PKCS#11 module using filename libnssckbi.so
(which has been converted into a symbolic link pointing to the new module)
and any application capable of
loading PKCS#11 modules and loading p11-kit-trust.so, will benefit from
the dynamically merged set of certificates and trust information stored in the
/usr/share/pki/ca-trust-source/ and /etc/pki/ca-trust/source/ directories.

[[extractconf]]
EXTRACTED CONFIGURATION

The directory /etc/pki/ca-trust/extracted/ contains generated CA certificate
bundle files which are created and updated, based on the <<sourceconf,SOURCE CONFIGURATION>>
by running the 'update-ca-trust extract' command.

If your application isn't able to load the PKCS#11 module p11-kit-trust.so,
then you can use these files in your application to load a list of global
root CA certificates.

Please never manually edit the files stored in this directory,
because your changes will be lost and the files automatically overwritten,
each time the 'update-ca-trust extract' command gets executed.

In order to install new trusted or distrusted certificates,
please rather install them in the respective subdirectory below the
/usr/share/pki/ca-trust-source/ or /etc/pki/ca-trust/source/
directories, as described in the <<sourceconf,SOURCE CONFIGURATION>> section.

The directory /etc/pki/ca-trust/extracted/java/ contains
a CA certificate bundle in the java keystore file format.
Distrust information cannot be represented in this file format,
and distrusted certificates are missing from these files.
File cacerts contains CA certificates trusted for TLS server authentication.

The directory /etc/pki/ca-trust/extracted/openssl/ contains
CA certificate bundle files in the extended BEGIN/END TRUSTED CERTIFICATE file format,
as described in the x509(1) manual page.
File ca-bundle.trust.crt contains the full set of all trusted
or distrusted certificates, including the associated trust flags.

The directory /etc/pki/ca-trust/extracted/pem/ contains
CA certificate bundle files in the simple BEGIN/END CERTIFICATE file format,
as described in the x509(1) manual page.
Distrust information cannot be represented in this file format,
and distrusted certificates are missing from these files.
File tls-ca-bundle.pem contains CA certificates
trusted for TLS server authentication.
File email-ca-bundle.pem contains CA certificates
trusted for E-Mail protection.
File objsign-ca-bundle.pem contains CA certificates
trusted for code signing.

COMMANDS

(absent/empty command)::
  Same as the *extract* command described below. (However, the command may
  print fewer warnings, as this command is being run during rpm package
  installation, where non-fatal status output is undesired.)

extract::
  Instruct update-ca-trust to scan the <<sourceconf,SOURCE CONFIGURATION>> and produce
  updated versions of the consolidated configuration files stored below
  the /etc/pki/ca-trust/extracted directory hierarchy.

FILES

/etc/pki/tls/certs/ca-bundle.crt::
 Classic filename, file contains a list of CA certificates trusted for TLS server authentication usage, in the simple BEGIN/END CERTIFICATE file format, without distrust information.
 This file is a symbolic link that refers to the consolidated output created by the update-ca-trust command.

/etc/pki/tls/certs/ca-bundle.trust.crt::
 Classic filename, file contains a list of CA certificates in the extended BEGIN/END TRUSTED CERTIFICATE file format, which includes trust (and/or distrust) flags specific to certificate usage.
 This file is a symbolic link that refers to the consolidated output created by the update-ca-trust command.

/etc/pki/java/cacerts::
 Classic filename, file contains a list of CA certificates trusted for TLS server authentication usage, in the Java keystore file format, without distrust information.
 This file is a symbolic link that refers to the consolidated output created by the update-ca-trust command.

/usr/share/pki/ca-trust-source::
 Contains multiple, low priority source configuration files as explained in section <<sourceconf,SOURCE CONFIGURATION>>. Please pay attention to the specific meanings of the respective subdirectories.

/etc/pki/ca-trust/source::
 Contains multiple, high priority source configuration files as explained in section <<sourceconf,SOURCE CONFIGURATION>>. Please pay attention to the specific meanings of the respective subdirectories.

/etc/pki/ca-trust/extracted::
 Contains consolidated and automatically generated configuration files for consumption by applications,
 which are created using the 'update-ca-trust extract' command. Don't edit files in this directory, because they will be overwritten.
 See section <<extractconf,EXTRACTED CONFIGURATION>> for additional details.

AUTHOR

Written by Kai Engert and Stef Walter.

Found in path(s):
* /opt/cola/permits/1425443200_1664017022.0583818/0/ca-certificates-2022.2.54-74.el7_9.src.rpm-cosi-expand-archive-GCjLhYzR/update-ca-trust.8.txt
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Found in path(s):
* /opt/cola/permits/1425443200_1664017022.0583818/0/ca-certificates-2022.2.54-74.el7_9.src.rpm-cosi-expand-archive-GCjLhYzR/certdata2pem.py
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#
certdata.txt
#
This file contains the object definitions for the certs and other
information "built into" NSS.
#
Object definitions:
#
Certificates
#
-- Attribute --   -- type --   -- value --
CKA_CLASS   CK_OBJECT_CLASS   CKO_CERTIFICATE
CKA_TOKEN   CK_BBOOL   CK_TRUE
CKA_PRIVATE   CK_BBOOL   CK_FALSE
CKA_MODIFIABLE   CK_BBOOL   CK_FALSE
CKA_LABEL   UTF8   (varies)
CKA_CERTIFICATE_TYPE   CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT   DER+base64   (varies)
CKA_ID   byte array   (varies)
CKA_ISSUER   DER+base64   (varies)
CKA_SERIAL_NUMBER   DER+base64   (varies)
CKA_VALUE   DER+base64   (varies)
CKA_NSS_EMAIL   ASCII7   (unused here)
CKA_NSS_SERVER_DISTRUST_AFTER DER+base64   (varies)
CKA_NSS_EMAIL_DISTRUST_AFTER DER+base64   (varies)
#
Trust
#
-- Attribute --   -- type --   -- value --

```
#  CKA_CLASS                CK_OBJECT_CLASS     CKO_TRUST
#  CKA_TOKEN                CK_BBOOL            CK_TRUE
#  CKA_PRIVATE              CK_BBOOL            CK_FALSE
#  CKA_MODIFIABLE           CK_BBOOL            CK_FALSE
#  CKA_LABEL                UTF8                (varies)
#  CKA_ISSUER               DER+base64          (varies)
#  CKA_SERIAL_NUMBER        DER+base64          (varies)
#  CKA_CERT_HASH            binary+base64       (varies)
#  CKA_EXPIRES              CK_DATE             (not used here)
#  CKA_TRUST_DIGITAL_SIGNATURE  CK_TRUST        (varies)
#  CKA_TRUST_NON_REPUDIATION    CK_TRUST        (varies)
#  CKA_TRUST_KEY_ENCIPHERMENT   CK_TRUST        (varies)
#  CKA_TRUST_DATA_ENCIPHERMENT  CK_TRUST        (varies)
#  CKA_TRUST_KEY_AGREEMENT      CK_TRUST        (varies)
#  CKA_TRUST_KEY_CERT_SIGN      CK_TRUST        (varies)
#  CKA_TRUST_CRL_SIGN           CK_TRUST        (varies)
#  CKA_TRUST_SERVER_AUTH        CK_TRUST        (varies)
#  CKA_TRUST_CLIENT_AUTH        CK_TRUST        (varies)
#  CKA_TRUST_CODE_SIGNING       CK_TRUST        (varies)
#  CKA_TRUST_EMAIL_PROTECTION   CK_TRUST        (varies)
#  CKA_TRUST_IPSEC_END_SYSTEM   CK_TRUST        (varies)
#  CKA_TRUST_IPSEC_TUNNEL       CK_TRUST        (varies)
#  CKA_TRUST_IPSEC_USER         CK_TRUST        (varies)
#  CKA_TRUST_TIME_STAMPING      CK_TRUST        (varies)
#  CKA_TRUST_STEP_UP_APPROVED   CK_BBOOL        (varies)
#  (other trust attributes can be defined)
#

#
# The object to tell NSS that this is a root list and we don't
# have to go looking for others.
#
BEGINDATA
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_BUILTIN_ROOT_LIST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Mozilla Builtin Roots"

#
# Certificate "GlobalSign Root CA"
#
# Issuer: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Serial Number:04:00:00:00:00:01:15:4b:5a:c3:94
# Subject: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Tue Sep 01 12:00:00 1998
# Not Valid After : Fri Jan 28 12:00:00 2028
# Fingerprint (SHA-256):
```

EB:D4:10:40:E4:BB:3E:C7:42:C9:E3:81:D3:1E:F2:A4:1A:48:B6:68:5C:96:E7:CE:F3:C1:DF:6C:D4:33:1C:99
Fingerprint (SHA1): B1:BC:96:8B:D4:F4:9D:62:2A:A8:9A:81:F2:15:01:52:A4:1D:82:9C
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\127\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\020\060\016\006\003
\125\004\013\023\007\122\157\157\164\040\103\101\061\033\060\031
\006\003\125\004\003\023\022\107\154\157\142\141\154\123\151\147
\156\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\127\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\020\060\016\006\003
\125\004\013\023\007\122\157\157\164\040\103\101\061\033\060\031
\006\003\125\004\003\023\022\107\154\157\142\141\154\123\151\147
\156\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\025\113\132\303\224
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\165\060\202\002\135\240\003\002\001\002\002\013\004
\000\000\000\000\001\025\113\132\303\224\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\060\127\061\013\060\011\006
\003\125\004\006\023\002\102\105\061\031\060\027\006\003\125\004
\012\023\020\107\154\157\142\141\154\123\151\147\156\040\156\166
\055\163\141\061\020\060\016\006\003\125\004\013\023\007\122\157
\157\164\040\103\101\061\033\060\031\006\003\125\004\003\023\022
\107\154\157\142\141\154\123\151\147\156\040\122\157\157\164\040
\103\101\060\036\027\015\071\070\060\071\060\061\061\062\060\060
\060\060\132\027\015\062\070\060\061\062\070\061\062\060\060\060
\060\132\060\127\061\013\060\011\006\003\125\004\006\023\002\102
\105\061\031\060\027\006\003\125\004\012\023\020\107\154\157\142
\141\154\123\151\147\156\040\156\166\055\163\141\061\020\060\016
\006\003\125\004\013\023\007\122\157\157\164\040\103\101\061\033
\060\031\006\003\125\004\003\023\022\107\154\157\142\141\154\123
\151\147\156\040\122\157\157\164\040\103\101\060\202\001\042\060
\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202
\001\017\000\060\202\001\012\002\202\001\001\000\332\016\346\231
\215\316\243\343\117\212\176\373\361\213\203\045\153\352\110\037

\361\052\260\271\225\021\004\275\360\143\321\342\147\146\317\034
\335\317\033\110\053\356\215\211\216\232\257\051\200\145\253\351
\307\055\022\313\253\034\114\160\007\241\075\012\060\315\025\215
\117\370\335\324\214\120\025\034\357\120\356\304\056\367\374\351
\122\362\221\175\340\155\325\065\060\216\136\103\163\362\101\351
\325\152\343\262\211\072\126\071\070\157\006\074\210\151\133\052
\115\305\247\124\270\154\211\314\233\371\074\312\345\375\211\365
\022\074\222\170\226\326\334\164\156\223\104\141\321\215\307\106
\262\165\016\206\350\031\212\325\155\154\325\170\026\225\242\351
\310\012\070\353\362\044\023\117\163\124\223\023\205\072\033\274
\036\064\265\213\005\214\271\167\213\261\333\037\040\221\253\011
\123\156\220\316\173\067\164\271\160\107\221\042\121\143\026\171
\256\261\256\101\046\010\310\031\053\321\106\252\110\326\144\052
\327\203\064\377\054\052\301\154\031\103\112\007\205\347\323\174
\366\041\150\357\352\362\122\237\177\223\220\317\002\003\001\000
\001\243\102\060\100\060\016\006\003\125\035\017\001\001\377\004
\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004
\024\140\173\146\032\105\015\227\312\211\120\057\175\004\315\064
\250\377\374\375\113\060\015\006\011\052\206\110\206\367\015\001
\001\005\005\000\003\202\001\001\000\326\163\347\174\117\166\320
\215\277\354\272\242\276\064\305\050\062\265\174\374\154\234\054
\053\275\011\236\123\277\153\136\252\021\110\266\345\010\243\263
\312\075\141\115\323\106\011\263\076\303\240\343\143\125\033\362
\272\357\255\071\341\103\271\070\243\346\057\212\046\073\357\240
\120\126\371\306\012\375\070\315\304\013\160\121\224\227\230\004
\337\303\137\224\325\025\311\024\101\234\304\135\165\144\025\015
\377\125\060\354\206\217\377\015\357\054\271\143\106\366\252\374
\337\274\151\375\056\022\110\144\232\340\225\360\246\357\051\217
\001\261\025\265\014\035\245\376\151\054\151\044\170\036\263\247
\034\161\142\356\312\310\227\254\027\135\212\302\370\107\206\156
\052\304\126\061\225\320\147\211\205\053\371\154\246\135\106\235
\014\252\202\344\231\121\335\160\267\333\126\075\141\344\152\341
\134\326\366\376\075\336\101\314\007\256\143\122\277\123\123\364
\053\351\307\375\266\367\202\137\205\322\101\030\333\201\263\004
\034\305\037\244\200\157\025\040\311\336\014\210\012\035\326\146
\125\342\374\110\311\051\046\151\340
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "GlobalSign Root CA"
Issuer: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
Serial Number:04:00:00:00:00:01:15:4b:5a:c3:94
Subject: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
Not Valid Before: Tue Sep 01 12:00:00 1998
Not Valid After : Fri Jan 28 12:00:00 2028

Fingerprint (SHA-256):
EB:D4:10:40:E4:BB:3E:C7:42:C9:E3:81:D3:1E:F2:A4:1A:48:B6:68:5C:96:E7:CE:F3:C1:DF:6C:D4:33:1C:99
Fingerprint (SHA1): B1:BC:96:8B:D4:F4:9D:62:2A:A8:9A:81:F2:15:01:52:A4:1D:82:9C
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\261\274\226\213\324\364\235\142\052\250\232\201\362\025\001\122
\244\035\202\234
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\076\105\122\025\011\121\222\341\267\135\067\237\261\207\051\212
END
CKA_ISSUER MULTILINE_OCTAL
\060\127\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\020\060\016\006\003
\125\004\013\023\007\122\157\157\164\040\103\101\061\033\060\031
\006\003\125\004\003\023\022\107\154\157\142\141\154\123\151\147
\156\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\025\113\132\303\224
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Verisign Class 1 Public Primary Certification Authority - G3"
#
Issuer: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
Serial Number:00:8b:5b:75:56:84:54:85:0b:00:cf:af:38:48:ce:b1:a4
Subject: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
Not Valid Before: Fri Oct 01 00:00:00 1999
Not Valid After : Wed Jul 16 23:59:59 2036
Fingerprint (SHA-256):
CB:B5:AF:18:5E:94:2A:24:02:F9:EA:CB:C0:ED:5B:B8:76:EE:A3:C1:22:36:23:D0:04:47:E4:F3:BA:55:4B:65
Fingerprint (SHA1): 20:42:85:DC:F7:EB:76:41:95:57:8E:13:6B:D4:B7:D1:E9:8E:46:A5
For Email Distrust After: Wed Aug 31 00:00:00 2022
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verisign Class 1 Public Primary Certification Authority - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\061\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\061\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\213\133\165\126\204\124\205\013\000\317\257\070\110
\316\261\244
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\032\060\202\003\002\002\021\000\213\133\165\126\204
\124\205\013\000\317\257\070\110\316\261\244\060\015\006\011\052
\206\110\206\367\015\001\001\005\005\000\060\201\312\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\027\060\025\006\003
\125\004\012\023\016\126\145\162\151\123\151\147\156\054\040\111
\156\143\056\061\037\060\035\006\003\125\004\013\023\026\126\145
\162\151\123\151\147\156\040\124\162\165\163\164\040\116\145\164
\167\157\162\153\061\072\060\070\006\003\125\004\013\023\061\050
\143\051\040\061\071\071\071\040\126\145\162\151\123\151\147\156

\054\040\111\156\143\056\040\055\040\106\157\162\040\141\165\164
\150\157\162\151\172\145\144\040\165\163\145\040\157\156\154\171
\061\105\060\103\006\003\125\004\003\023\074\126\145\162\151\123
\151\147\156\040\103\154\141\163\163\040\061\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\063\060\036\027\015\071\071\061\060\060
\061\060\060\060\060\060\060\132\027\015\063\066\060\067\061\066
\062\063\065\071\065\071\132\060\201\312\061\013\060\011\006\003
\125\004\006\023\002\125\123\061\027\060\025\006\003\125\004\012
\023\016\126\145\162\151\123\151\147\156\054\040\111\156\143\056
\061\037\060\035\006\003\125\004\013\023\026\126\145\162\151\123
\151\147\156\040\124\162\165\163\164\040\116\145\164\167\157\162
\153\061\072\060\070\006\003\125\004\013\023\061\050\143\051\040
\061\071\071\071\040\126\145\162\151\123\151\147\156\054\040\111
\156\143\056\040\055\040\106\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\105\060
\103\006\003\125\004\003\023\074\126\145\162\151\123\151\147\156
\040\103\154\141\163\163\040\061\040\120\165\142\154\151\143\040
\120\162\151\155\141\162\171\040\103\145\162\164\151\146\151\143
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040
\055\040\107\063\060\202\001\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012
\002\202\001\001\000\335\204\324\271\264\371\247\330\363\004\170
\234\336\075\334\154\023\026\331\172\335\044\121\146\300\307\046
\131\015\254\006\010\302\224\321\063\037\360\203\065\037\156\033
\310\336\252\156\025\116\124\047\357\304\155\032\354\013\343\016
\360\104\245\127\307\100\130\036\243\107\037\161\354\140\366\155
\224\310\030\071\355\376\102\030\126\337\344\114\111\020\170\116
\001\166\065\143\022\066\335\146\274\001\004\066\243\125\150\325
\242\066\011\254\253\041\046\124\006\255\077\312\024\340\254\312
\255\006\035\225\342\370\235\361\340\140\377\302\177\165\053\114
\314\332\376\207\231\041\352\272\376\076\124\327\322\131\170\333
\074\156\317\240\023\000\032\270\047\241\344\276\147\226\312\240
\305\263\234\335\311\165\236\353\060\232\137\243\315\331\256\170
\031\077\043\351\134\333\051\275\255\125\310\033\124\214\143\366
\350\246\352\307\067\022\134\243\051\036\002\331\333\037\073\264
\327\017\126\107\201\025\004\112\257\203\047\321\305\130\210\301
\335\366\252\247\243\030\332\150\252\155\021\121\341\277\145\153
\237\226\166\321\075\002\003\001\000\001\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\003\202\001\001\000\253\146
\215\327\263\272\307\232\266\346\125\320\005\361\237\061\215\132
\252\331\252\106\046\017\161\355\245\255\123\126\142\001\107\052
\104\351\376\077\164\013\023\233\271\364\115\033\262\321\137\262
\266\322\210\134\263\237\315\313\324\247\331\140\225\204\072\370
\301\067\035\141\312\347\260\305\345\221\332\124\246\254\061\201
\256\227\336\315\010\254\270\300\227\200\177\156\162\244\347\151
\023\225\145\037\304\223\074\375\171\217\004\324\076\117\352\367

\236\316\315\147\174\117\145\002\377\221\205\124\163\307\377\066
\367\206\055\354\320\136\117\377\021\237\162\006\326\270\032\361
\114\015\046\145\342\104\200\036\307\237\343\335\350\012\332\354
\245\040\200\151\150\241\117\176\341\153\317\007\101\372\203\216
\274\070\335\260\056\021\261\153\262\102\314\232\274\371\110\042
\171\112\031\017\262\034\076\040\164\331\152\303\276\362\050\170
\023\126\171\117\155\120\352\033\260\265\127\261\067\146\130\043
\363\334\017\337\012\207\304\357\206\005\325\070\024\140\231\243
\113\336\006\226\161\054\362\333\266\037\244\357\077\356
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL
\062\062\060\070\063\061\060\060\060\060\060\060\132
END

Trust for "Verisign Class 1 Public Primary Certification Authority - G3"
Issuer: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
Serial Number:00:8b:5b:75:56:84:54:85:0b:00:cf:af:38:48:ce:b1:a4
Subject: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
Not Valid Before: Fri Oct 01 00:00:00 1999
Not Valid After : Wed Jul 16 23:59:59 2036
Fingerprint (SHA-256):
CB:B5:AF:18:5E:94:2A:24:02:F9:EA:CB:C0:ED:5B:B8:76:EE:A3:C1:22:36:23:D0:04:47:E4:F3:BA:55:4B:65
Fingerprint (SHA1): 20:42:85:DC:F7:EB:76:41:95:57:8E:13:6B:D4:B7:D1:E9:8E:46:A5
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verisign Class 1 Public Primary Certification Authority - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\040\102\205\334\367\353\166\101\225\127\216\023\153\324\267\321
\351\216\106\245
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\261\107\274\030\127\321\030\240\170\055\354\161\350\052\225\163
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163

\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\061\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\213\133\165\126\204\124\205\013\000\317\257\070\110
\316\261\244
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Verisign Class 2 Public Primary Certification Authority - G3"
#
Issuer: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
Serial Number:61:70:cb:49:8c:5f:98:45:29:e7:b0:a6:d9:50:5b:7a
Subject: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
Not Valid Before: Fri Oct 01 00:00:00 1999
Not Valid After : Wed Jul 16 23:59:59 2036
Fingerprint (SHA-256):
92:A9:D9:83:3F:E1:94:4D:B3:66:E8:BF:AE:7A:95:B6:48:0C:2D:6C:6C:2A:1B:E6:5D:42:36:B6:08:FC:A1:BB
Fingerprint (SHA1): 61:EF:43:D7:7F:CA:D4:61:51:BC:98:E0:C3:59:12:AF:9F:EB:63:11
For Email Distrust After: Wed Aug 31 00:00:00 2022
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verisign Class 2 Public Primary Certification Authority - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\062\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101

\165\164\150\157\162\151\164\171\040\055\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\062\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\141\160\313\111\214\137\230\105\051\347\260\246\331\120
\133\172
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\031\060\202\003\001\002\020\141\160\313\111\214\137
\230\105\051\347\260\246\331\120\133\172\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\060\201\312\061\013\060\011
\006\003\125\004\006\023\002\125\123\061\027\060\025\006\003\125
\004\012\023\016\126\145\162\151\123\151\147\156\054\040\111\156
\143\056\061\037\060\035\006\003\125\004\013\023\026\126\145\162
\151\123\151\147\156\040\124\162\165\163\164\040\116\145\164\167
\157\162\153\061\072\060\070\006\003\125\004\013\023\061\050\143
\051\040\061\071\071\071\040\126\145\162\151\123\151\147\156\054
\040\111\156\143\056\040\055\040\106\157\162\040\141\165\164\150
\157\162\151\172\145\144\040\165\163\145\040\157\156\154\171\061
\105\060\103\006\003\125\004\003\023\074\126\145\162\151\123\151
\147\156\040\103\154\141\163\163\040\062\040\120\165\142\154\151
\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\040\055\040\107\063\060\036\027\015\071\071\061\060\060\061
\060\060\060\060\060\060\132\027\015\063\066\060\067\061\066\062
\063\065\071\065\071\132\060\201\312\061\013\060\011\006\003\125
\004\006\023\002\125\123\061\027\060\025\006\003\125\004\012\023
\016\126\145\162\151\123\151\147\156\054\040\111\156\143\056\061
\037\060\035\006\003\125\004\013\023\026\126\145\162\151\123\151
\147\156\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\072\060\070\006\003\125\004\013\023\061\050\143\051\040\061
\071\071\071\040\126\145\162\151\123\151\147\156\054\040\111\156
\143\056\040\055\040\106\157\162\040\141\165\164\150\157\162\151

\172\145\144\040\165\163\145\040\157\156\154\171\061\105\060\103
\006\003\125\004\003\023\074\126\145\162\151\123\151\147\156\040
\103\154\141\163\163\040\062\040\120\165\142\154\151\143\040\120
\162\151\155\141\162\171\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\055
\040\107\063\060\202\001\042\060\015\006\011\052\206\110\206\367
\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002
\202\001\001\000\257\012\015\302\325\054\333\147\271\055\345\224
\047\335\245\276\340\260\115\217\263\141\126\074\326\174\303\364
\315\076\206\313\242\210\342\341\330\244\151\305\265\342\277\301
\246\107\120\136\106\071\213\325\226\272\265\157\024\277\020\316
\047\023\236\005\107\233\061\172\023\330\037\331\323\002\067\213
\255\054\107\360\216\201\006\247\015\060\014\353\367\074\017\040
\035\334\162\106\356\245\002\310\133\303\311\126\151\114\305\030
\301\221\173\013\325\023\000\233\274\357\303\110\076\106\140\040
\205\052\325\220\266\315\213\240\314\062\335\267\375\100\125\262
\120\034\126\256\314\215\167\115\307\040\115\247\061\166\357\150
\222\212\220\036\010\201\126\262\255\151\243\122\320\313\034\304
\043\075\037\231\376\114\350\026\143\216\306\010\216\366\061\366
\322\372\345\166\335\265\034\222\243\111\315\315\001\315\150\315
\251\151\272\243\353\035\015\234\244\040\246\301\240\305\321\106
\114\027\155\322\254\146\077\226\214\340\204\324\066\377\042\131
\305\371\021\140\250\137\004\175\362\032\366\045\102\141\017\304
\112\270\076\211\002\003\001\000\001\060\015\006\011\052\206\110
\206\367\015\001\001\005\005\000\003\202\001\001\000\064\046\025
\074\300\215\115\103\111\035\275\351\041\222\327\146\234\267\336
\305\270\320\344\135\137\166\042\300\046\371\204\072\072\371\214
\265\373\354\140\361\350\316\004\260\310\335\247\003\217\060\363
\230\337\244\346\244\061\337\323\034\013\106\334\162\040\077\256
\356\005\074\244\063\077\013\071\254\160\170\163\113\231\053\337
\060\302\124\260\250\073\125\241\376\026\050\315\102\275\164\156
\200\333\047\104\247\316\104\135\324\033\220\230\015\036\102\224
\261\000\054\004\320\164\243\002\005\042\143\143\315\203\265\373
\301\155\142\153\151\165\375\135\160\101\271\365\277\174\337\276
\301\062\163\042\041\213\130\201\173\025\221\172\272\343\144\110
\260\177\373\066\045\332\225\320\361\044\024\027\335\030\200\153
\106\043\071\124\365\216\142\011\004\035\224\220\246\233\346\045
\342\102\105\252\270\220\255\276\010\217\251\013\102\030\224\317
\162\071\341\261\103\340\050\317\267\347\132\154\023\153\111\263
\377\343\030\174\211\213\063\135\254\063\327\247\371\332\072\125
\311\130\020\371\252\357\132\266\317\113\113\337\052
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL
\062\062\060\070\063\061\060\060\060\060\060\060\132
END

Trust for "Verisign Class 2 Public Primary Certification Authority - G3"
Issuer: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
Serial Number:61:70:cb:49:8c:5f:98:45:29:e7:b0:a6:d9:50:5b:7a
Subject: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
Not Valid Before: Fri Oct 01 00:00:00 1999
Not Valid After : Wed Jul 16 23:59:59 2036
Fingerprint (SHA-256):
92:A9:D9:83:3F:E1:94:4D:B3:66:E8:BF:AE:7A:95:B6:48:0C:2D:6C:6C:2A:1B:E6:5D:42:36:B6:08:FC:A1:BB
Fingerprint (SHA1): 61:EF:43:D7:7F:CA:D4:61:51:BC:98:E0:C3:59:12:AF:9F:EB:63:11
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verisign Class 2 Public Primary Certification Authority - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\141\357\103\327\177\312\324\141\121\274\230\340\303\131\022\257
\237\353\143\021
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\370\276\304\143\042\311\250\106\164\213\270\035\036\112\053\366
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\062\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\141\160\313\111\214\137\230\105\051\347\260\246\331\120
\133\172
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

Certificate "Entrust.net Premium 2048 Secure Server CA"
#
Issuer: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
Serial Number: 946069240 (0x3863def8)
Subject: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
Not Valid Before: Fri Dec 24 17:50:51 1999
Not Valid After : Tue Jul 24 14:15:12 2029
Fingerprint (SHA-256):
6D:C4:71:72:E0:1C:BC:B0:BF:62:58:0D:89:5F:E2:B8:AC:9A:D4:F8:73:80:1E:0C:10:B9:C8:37:D2:1E:B1:77
Fingerprint (SHA1): 50:30:06:09:1D:97:D4:F5:AE:39:F7:CB:E7:92:7D:7D:65:2D:34:31
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust.net Premium 2048 Secure Server CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\264\061\024\060\022\006\003\125\004\012\023\013\105\156
\164\162\165\163\164\056\156\145\164\061\100\060\076\006\003\125
\004\013\024\067\167\167\167\056\145\156\164\162\165\163\164\056
\156\145\164\057\103\120\123\137\062\060\064\070\040\151\156\143
\157\162\160\056\040\142\171\040\162\145\146\056\040\050\154\151
\155\151\164\163\040\154\151\141\142\056\051\061\045\060\043\006
\003\125\004\013\023\034\050\143\051\040\061\071\071\071\040\105
\156\164\162\165\163\164\056\156\145\164\040\114\151\155\151\164
\145\144\061\063\060\061\006\003\125\004\003\023\052\105\156\164
\162\165\163\164\056\156\145\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\050\062\060\064\070\051
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\264\061\024\060\022\006\003\125\004\012\023\013\105\156
\164\162\165\163\164\056\156\145\164\061\100\060\076\006\003\125
\004\013\024\067\167\167\167\056\145\156\164\162\165\163\164\056
\156\145\164\057\103\120\123\137\062\060\064\070\040\151\156\143
\157\162\160\056\040\142\171\040\162\145\146\056\040\050\154\151
\155\151\164\163\040\154\151\141\142\056\051\061\045\060\043\006
\003\125\004\013\023\034\050\143\051\040\061\071\071\071\040\105
\156\164\162\165\163\164\056\156\145\164\040\114\151\155\151\164
\145\144\061\063\060\061\006\003\125\004\003\023\052\105\156\164
\162\165\163\164\056\156\145\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\050\062\060\064\070\051
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\004\070\143\336\370
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\052\060\202\003\022\240\003\002\001\002\002\004\070
\143\336\370\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\060\201\264\061\024\060\022\006\003\125\004\012\023\013
\105\156\164\162\165\163\164\056\156\145\164\061\100\060\076\006
\003\125\004\013\024\067\167\167\167\056\145\156\164\162\165\163
\164\056\156\145\164\057\103\120\123\137\062\060\064\070\040\151
\156\143\157\162\160\056\040\142\171\040\162\145\146\056\040\050
\154\151\155\151\164\163\040\154\151\141\142\056\051\061\045\060
\043\006\003\125\004\013\023\034\050\143\051\040\061\071\071\071
\040\105\156\164\162\165\163\164\056\156\145\164\040\114\151\155
\151\164\145\144\061\063\060\061\006\003\125\004\003\023\052\105
\156\164\162\165\163\164\056\156\145\164\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\050\062\060\064\070\051\060\036\027\015\071\071\061
\062\062\064\061\067\065\060\065\061\132\027\015\062\071\060\067
\062\064\061\064\061\065\061\062\132\060\201\264\061\024\060\022
\006\003\125\004\012\023\013\105\156\164\162\165\163\164\056\156
\145\164\061\100\060\076\006\003\125\004\013\024\067\167\167\167
\056\145\156\164\162\165\163\164\056\156\145\164\057\103\120\123
\137\062\060\064\070\040\151\156\143\157\162\160\056\040\142\171
\040\162\145\146\056\040\050\154\151\155\151\164\163\040\154\151
\141\142\056\051\061\045\060\043\006\003\125\004\013\023\034\050
\143\051\040\061\071\071\071\040\105\156\164\162\165\163\164\056
\156\145\164\040\114\151\155\151\164\145\144\061\063\060\061\006
\003\125\004\003\023\052\105\156\164\162\165\163\164\056\156\145
\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\101\165\164\150\157\162\151\164\171\040\050\062\060\064\070\051
\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001\001
\000\255\115\113\251\022\206\262\352\243\040\007\025\026\144\052
\053\113\321\277\013\112\115\216\355\200\166\245\147\267\170\100
\300\163\102\310\150\300\333\123\053\335\136\270\166\230\065\223
\213\032\235\174\023\072\016\037\133\267\036\317\345\044\024\036
\261\201\251\215\175\270\314\153\113\003\361\002\014\334\253\245
\100\044\000\177\164\224\241\235\010\051\263\210\013\365\207\167
\235\125\315\344\303\176\327\152\144\253\205\024\206\225\133\227
\062\120\157\075\310\272\146\014\343\374\275\270\111\301\166\211
\111\031\375\300\250\275\211\243\147\057\306\237\274\161\031\140
\270\055\351\054\311\220\166\146\173\224\342\257\170\326\145\123
\135\074\326\234\262\317\051\003\371\057\244\120\262\324\110\316
\005\062\125\212\375\262\144\114\016\344\230\007\165\333\177\337
\271\010\125\140\205\060\051\371\173\110\244\151\206\343\065\077
\036\206\135\172\172\025\275\357\000\216\025\042\124\027\000\220
\046\223\274\016\111\150\221\277\370\107\323\235\225\102\301\016
\115\337\157\046\317\303\030\041\142\146\103\160\326\325\300\007

\341\002\003\001\000\001\243\102\060\100\060\016\006\003\125\035
\017\001\001\377\004\004\003\002\001\006\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125
\035\016\004\026\004\024\125\344\201\321\021\200\276\330\211\271
\010\243\061\371\241\044\011\026\271\160\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\003\202\001\001\000\073\233
\217\126\233\060\347\123\231\174\172\171\247\115\227\327\031\225
\220\373\006\037\312\063\174\106\143\217\226\146\044\372\100\033
\041\047\312\346\162\163\362\117\376\061\231\375\310\014\114\150
\123\306\200\202\023\230\372\266\255\332\135\075\361\316\156\366
\025\021\224\202\014\356\077\225\257\021\253\017\327\057\336\037
\003\217\127\054\036\311\273\232\032\104\225\353\030\117\246\037
\315\175\127\020\057\233\004\011\132\204\265\156\330\035\072\341
\326\236\321\154\171\136\171\034\024\305\343\320\114\223\073\145
\074\355\337\075\276\246\345\225\032\303\265\031\303\275\136\133
\273\377\043\357\150\031\313\022\223\047\134\003\055\157\060\320
\036\266\032\254\336\132\367\321\252\250\047\246\376\171\201\304
\171\231\063\127\272\022\260\251\340\102\154\223\312\126\336\376
\155\204\013\010\213\176\215\352\327\230\041\306\363\347\074\171
\057\136\234\321\114\025\215\341\354\042\067\314\232\103\013\227
\334\200\220\215\263\147\233\157\110\010\025\126\317\277\361\053
\174\136\232\166\351\131\220\305\174\203\065\021\145\121
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Entrust.net Premium 2048 Secure Server CA"
Issuer: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net
Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
Serial Number: 946069240 (0x3863def8)
Subject: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net
Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
Not Valid Before: Fri Dec 24 17:50:51 1999
Not Valid After : Tue Jul 24 14:15:12 2029
Fingerprint (SHA-256):
6D:C4:71:72:E0:1C:BC:B0:BF:62:58:0D:89:5F:E2:B8:AC:9A:D4:F8:73:80:1E:0C:10:B9:C8:37:D2:1E:B1:77
Fingerprint (SHA1): 50:30:06:09:1D:97:D4:F5:AE:39:F7:CB:E7:92:7D:7D:65:2D:34:31
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust.net Premium 2048 Secure Server CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\120\060\006\011\035\227\324\365\256\071\367\313\347\222\175\175
\145\055\064\061
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL

\356\051\061\274\062\176\232\346\350\265\367\121\264\064\161\220
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\264\061\024\060\022\006\003\125\004\012\023\013\105\156
\164\162\165\163\164\056\156\145\164\061\100\060\076\006\003\125
\004\013\024\067\167\167\167\056\145\156\164\162\165\163\164\056
\156\145\164\057\103\120\123\137\062\060\064\070\040\151\156\143
\157\162\160\056\040\142\171\040\162\145\146\056\040\050\154\151
\155\151\164\163\040\154\151\141\142\056\051\061\045\060\043\006
\003\125\004\013\023\034\050\143\051\040\061\071\071\071\040\105
\156\164\162\165\163\164\056\156\145\164\040\114\151\155\151\164
\145\144\061\063\060\061\006\003\125\004\003\023\052\105\156\164
\162\165\163\164\056\156\145\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\050\062\060\064\070\051
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\070\143\336\370
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Baltimore CyberTrust Root"
#
Issuer: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
Serial Number: 33554617 (0x20000b9)
Subject: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
Not Valid Before: Fri May 12 18:46:00 2000
Not Valid After : Mon May 12 23:59:00 2025
Fingerprint (SHA-256):
16:AF:57:A9:F6:76:B0:AB:12:60:95:AA:5E:BA:DE:F2:2A:B3:11:19:D6:44:AC:95:CD:4B:93:DB:F3:F2:6A:EB
Fingerprint (SHA1): D4:DE:20:D0:5E:66:FC:53:FE:1A:50:88:2C:78:DB:28:52:CA:E4:74
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Baltimore CyberTrust Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\111\105\061
\022\060\020\006\003\125\004\012\023\011\102\141\154\164\151\155
\157\162\145\061\023\060\021\006\003\125\004\013\023\012\103\171
\142\145\162\124\162\165\163\164\061\042\060\040\006\003\125\004
\003\023\031\102\141\154\164\151\155\157\162\145\040\103\171\142
\145\162\124\162\165\163\164\040\122\157\157\164

END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\111\105\061
\022\060\020\006\003\125\004\012\023\011\102\141\154\164\151\155
\157\162\145\061\023\060\021\006\003\125\004\013\023\012\103\171
\142\145\162\124\162\165\163\164\061\042\060\040\006\003\125\004
\003\023\031\102\141\154\164\151\155\157\162\145\040\103\171\142
\145\162\124\162\165\163\164\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\002\000\000\271
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\167\060\202\002\137\240\003\002\001\002\002\004\002
\000\000\271\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\060\132\061\013\060\011\006\003\125\004\006\023\002\111
\105\061\022\060\020\006\003\125\004\012\023\011\102\141\154\164
\151\155\157\162\145\061\023\060\021\006\003\125\004\013\023\012
\103\171\142\145\162\124\162\165\163\164\061\042\060\040\006\003
\125\004\003\023\031\102\141\154\164\151\155\157\162\145\040\103
\171\142\145\162\124\162\165\163\164\040\122\157\157\164\060\036
\027\015\060\060\060\065\061\062\061\070\064\066\060\060\132\027
\015\062\065\060\065\061\062\062\063\065\071\060\060\132\060\132
\061\013\060\011\006\003\125\004\006\023\002\111\105\061\022\060
\020\006\003\125\004\012\023\011\102\141\154\164\151\155\157\162
\145\061\023\060\021\006\003\125\004\013\023\012\103\171\142\145
\162\124\162\165\163\164\061\042\060\040\006\003\125\004\003\023
\031\102\141\154\164\151\155\157\162\145\040\103\171\142\145\162
\124\162\165\163\164\040\122\157\157\164\060\202\001\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001
\017\000\060\202\001\012\002\202\001\001\000\243\004\273\042\253
\230\075\127\350\046\162\232\265\171\324\051\342\341\350\225\200
\261\260\343\133\216\053\051\232\144\337\241\135\355\260\011\005
\155\333\050\056\316\142\242\142\376\264\210\332\022\353\070\353
\041\235\300\101\053\001\122\173\210\167\323\034\217\307\272\271
\210\265\152\011\347\163\350\021\100\247\321\314\312\142\215\055
\345\217\013\246\120\322\250\120\303\050\352\365\253\045\207\212
\232\226\034\251\147\270\077\014\325\367\371\122\023\057\302\033
\325\160\160\360\217\300\022\312\006\313\232\341\331\312\063\172
\167\326\370\354\271\361\150\104\102\110\023\322\300\302\244\256
\136\140\376\266\246\005\374\264\335\007\131\002\324\131\030\230
\143\365\245\143\340\220\014\175\135\262\006\172\363\205\352\353
\324\003\256\136\204\076\137\377\025\355\151\274\371\071\066\162
\165\317\167\122\115\363\311\220\054\271\075\345\311\043\123\077
\037\044\230\041\134\007\231\051\275\306\072\354\347\156\206\072
\153\227\164\143\063\275\150\030\061\360\170\215\166\277\374\236
\216\135\052\206\247\115\220\334\047\032\071\002\003\001\000\001

\243\105\060\103\060\035\006\003\125\035\016\004\026\004\024\345
\235\131\060\202\107\130\314\254\372\010\124\066\206\173\072\265
\004\115\360\060\022\006\003\125\035\023\001\001\377\004\010\060
\006\001\001\377\002\001\003\060\016\006\003\125\035\017\001\001
\377\004\004\003\002\001\006\060\015\006\011\052\206\110\206\367
\015\001\001\005\005\000\003\202\001\001\000\205\014\135\216\344
\157\121\150\102\005\240\335\273\117\047\045\204\003\275\367\144
\375\055\327\060\343\244\020\027\353\332\051\051\266\171\077\166
\366\031\023\043\270\020\012\371\130\244\324\141\160\275\004\141
\152\022\212\027\325\012\275\305\274\060\174\326\351\014\045\215
\206\100\117\354\314\243\176\070\306\067\021\117\355\335\150\061
\216\114\322\263\001\164\356\276\165\136\007\110\032\177\160\377
\026\134\204\300\171\205\270\005\375\177\276\145\021\243\017\300
\002\264\370\122\067\071\004\325\251\061\172\030\277\240\052\364
\022\231\367\243\105\202\343\074\136\365\235\236\265\310\236\174
\056\310\244\236\116\010\024\113\155\375\160\155\153\032\143\275
\144\346\037\267\316\360\362\237\056\273\033\267\362\120\210\163
\222\302\342\343\026\215\232\062\002\253\216\030\335\351\020\021
\356\176\065\253\220\257\076\060\224\172\320\063\075\247\145\017
\365\374\216\236\142\317\107\104\054\001\135\273\035\265\062\322
\107\322\070\056\320\376\201\334\062\152\036\265\356\074\325\374
\347\201\035\031\303\044\102\352\143\071\251
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Baltimore CyberTrust Root"
Issuer: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
Serial Number: 33554617 (0x20000b9)
Subject: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
Not Valid Before: Fri May 12 18:46:00 2000
Not Valid After : Mon May 12 23:59:00 2025
Fingerprint (SHA-256):
16:AF:57:A9:F6:76:B0:AB:12:60:95:AA:5E:BA:DE:F2:2A:B3:11:19:D6:44:AC:95:CD:4B:93:DB:F3:F2:6A:EB
Fingerprint (SHA1): D4:DE:20:D0:5E:66:FC:53:FE:1A:50:88:2C:78:DB:28:52:CA:E4:74
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Baltimore CyberTrust Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\324\336\040\320\136\146\374\123\376\032\120\210\054\170\333\050
\122\312\344\164
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\254\266\224\245\234\027\340\327\221\122\233\261\227\006\246\344
END

CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\111\105\061
\022\060\020\006\003\125\004\012\023\011\102\141\154\164\151\155
\157\162\145\061\023\060\021\006\003\125\004\013\023\012\103\171
\142\145\162\124\162\165\163\164\061\042\060\040\006\003\125\004
\003\023\031\102\141\154\164\151\155\157\162\145\040\103\171\142
\145\162\124\162\165\163\164\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\002\000\000\271
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Entrust Root Certification Authority"
#
Issuer: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US
Serial Number: 1164660820 (0x456b5054)
Subject: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US
Not Valid Before: Mon Nov 27 20:23:42 2006
Not Valid After : Fri Nov 27 20:53:42 2026
Fingerprint (SHA-256):
73:C1:76:43:4F:1B:C6:D5:AD:F4:5B:0E:76:E7:27:28:7C:8D:E5:76:16:C1:E6:E6:14:1A:2B:2C:BC:7D:8E:4C
Fingerprint (SHA1): B3:1E:B1:B7:40:E3:6C:84:02:DA:DC:37:D4:4D:F5:D4:67:49:52:F9
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\260\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\071\060\067\006\003\125\004
\013\023\060\167\167\167\056\145\156\164\162\165\163\164\056\156
\145\164\057\103\120\123\040\151\163\040\151\156\143\157\162\160
\157\162\141\164\145\144\040\142\171\040\162\145\146\145\162\145
\156\143\145\061\037\060\035\006\003\125\004\013\023\026\050\143
\051\040\062\060\060\066\040\105\156\164\162\165\163\164\054\040
\111\156\143\056\061\055\060\053\006\003\125\004\003\023\044\105
\156\164\162\165\163\164\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171

END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\260\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\071\060\067\006\003\125\004
\013\023\060\167\167\167\056\145\156\164\162\165\163\164\056\156
\145\164\057\103\120\123\040\151\163\040\151\156\143\157\162\160
\157\162\141\164\145\144\040\142\171\040\162\145\146\145\162\145
\156\143\145\061\037\060\035\006\003\125\004\013\023\026\050\143
\051\040\062\060\060\066\040\105\156\164\162\165\163\164\054\040
\111\156\143\056\061\055\060\053\006\003\125\004\003\023\044\105
\156\164\162\165\163\164\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\105\153\120\124
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\221\060\202\003\171\240\003\002\001\002\002\004\105
\153\120\124\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\060\201\260\061\013\060\011\006\003\125\004\006\023\002
\125\123\061\026\060\024\006\003\125\004\012\023\015\105\156\164
\162\165\163\164\054\040\111\156\143\056\061\071\060\067\006\003
\125\004\013\023\060\167\167\167\056\145\156\164\162\165\163\164
\056\156\145\164\057\103\120\123\040\151\163\040\151\156\143\157
\162\160\157\162\141\164\145\144\040\142\171\040\162\145\146\145
\162\145\156\143\145\061\037\060\035\006\003\125\004\013\023\026
\050\143\051\040\062\060\060\066\040\105\156\164\162\165\163\164
\054\040\111\156\143\056\061\055\060\053\006\003\125\004\003\023
\044\105\156\164\162\165\163\164\040\122\157\157\164\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171\060\036\027\015\060\066\061\061\062\067\062
\060\062\063\064\062\132\027\015\062\066\061\061\062\067\062\060
\065\063\064\062\132\060\201\260\061\013\060\011\006\003\125\004
\006\023\002\125\123\061\026\060\024\006\003\125\004\012\023\015
\105\156\164\162\165\163\164\054\040\111\156\143\056\061\071\060
\067\006\003\125\004\013\023\060\167\167\167\056\145\156\164\162
\165\163\164\056\156\145\164\057\103\120\123\040\151\163\040\151
\156\143\157\162\160\157\162\141\164\145\144\040\142\171\040\162
\145\146\145\162\145\156\143\145\061\037\060\035\006\003\125\004
\013\023\026\050\143\051\040\062\060\060\066\040\105\156\164\162
\165\163\164\054\040\111\156\143\056\061\055\060\053\006\003\125
\004\003\023\044\105\156\164\162\165\163\164\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\060\202\001\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000

\060\202\001\012\002\202\001\001\000\266\225\266\103\102\372\306
\155\052\157\110\337\224\114\071\127\005\356\303\171\021\101\150
\066\355\354\376\232\001\217\241\070\050\374\367\020\106\146\056
\115\036\032\261\032\116\306\321\300\225\210\260\311\377\061\213
\063\003\333\267\203\173\076\040\204\136\355\262\126\050\247\370
\340\271\100\161\067\305\313\107\016\227\052\150\300\042\225\142
\025\333\107\331\365\320\053\377\202\113\311\255\076\336\114\333
\220\200\120\077\011\212\204\000\354\060\012\075\030\315\373\375
\052\131\232\043\225\027\054\105\236\037\156\103\171\155\014\134
\230\376\110\247\305\043\107\134\136\375\156\347\036\264\366\150
\105\321\206\203\133\242\212\215\261\343\051\200\376\045\161\210
\255\276\274\217\254\122\226\113\252\121\215\344\023\061\031\350
\116\115\237\333\254\263\152\325\274\071\124\161\312\172\172\177
\220\335\175\035\200\331\201\273\131\046\302\021\376\346\223\342
\367\200\344\145\373\064\067\016\051\200\160\115\257\070\206\056
\236\177\127\257\236\027\256\353\034\313\050\041\137\266\034\330
\347\242\004\042\371\323\332\330\313\002\003\001\000\001\243\201
\260\060\201\255\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\006\060\017\006\003\125\035\023\001\001\377\004\005
\060\003\001\001\377\060\053\006\003\125\035\020\004\044\060\042
\200\017\062\060\060\066\061\061\062\067\062\060\062\063\064\062
\132\201\017\062\060\062\066\061\061\062\067\062\060\065\063\064
\062\132\060\037\006\003\125\035\043\004\030\060\026\200\024\150
\220\344\147\244\246\123\200\307\206\146\244\361\367\113\103\373
\204\275\155\060\035\006\003\125\035\016\004\026\004\024\150\220
\344\147\244\246\123\200\307\206\146\244\361\367\113\103\373\204
\275\155\060\035\006\011\052\206\110\206\366\175\007\101\000\004
\020\060\016\033\010\126\067\056\061\072\064\056\060\003\002\004
\220\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000
\003\202\001\001\000\223\324\060\260\327\003\040\052\320\371\143
\350\221\014\005\040\251\137\031\312\173\162\116\324\261\333\320
\226\373\124\132\031\054\014\010\367\262\274\205\250\235\177\155
\073\122\263\052\333\347\324\204\214\143\366\017\313\046\001\221
\120\154\364\137\024\342\223\164\300\023\236\060\072\120\343\264
\140\305\034\360\042\104\215\161\107\254\310\032\311\351\233\232
\000\140\023\377\160\176\137\021\115\111\033\263\025\122\173\311
\124\332\277\235\225\257\153\232\330\236\351\361\344\103\215\342
\021\104\072\277\257\275\203\102\163\122\213\252\273\247\051\317
\365\144\034\012\115\321\274\252\254\237\052\320\377\177\177\332
\175\352\261\355\060\045\301\204\332\064\322\133\170\203\126\354
\234\066\303\046\342\021\366\147\111\035\222\253\214\373\353\377
\172\356\205\112\247\120\200\360\247\134\112\224\056\137\005\231
\074\122\101\340\315\264\143\317\001\103\272\234\203\334\217\140
\073\363\132\264\264\173\256\332\013\220\070\165\357\201\035\146
\322\367\127\160\066\263\277\374\050\257\161\045\205\133\023\376
\036\177\132\264\074
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Entrust Root Certification Authority"
Issuer: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US
Serial Number: 1164660820 (0x456b5054)
Subject: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US
Not Valid Before: Mon Nov 27 20:23:42 2006
Not Valid After : Fri Nov 27 20:53:42 2026
Fingerprint (SHA-256):
73:C1:76:43:4F:1B:C6:D5:AD:F4:5B:0E:76:E7:27:28:7C:8D:E5:76:16:C1:E6:E6:14:1A:2B:2C:BC:7D:8E:4C
Fingerprint (SHA1): B3:1E:B1:B7:40:E3:6C:84:02:DA:DC:37:D4:4D:F5:D4:67:49:52:F9
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\263\036\261\267\100\343\154\204\002\332\334\067\324\115\365\324
\147\111\122\371
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\326\245\303\355\135\335\076\000\301\075\207\222\037\035\077\344
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\260\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\071\060\067\006\003\125\004
\013\023\060\167\167\167\056\145\156\164\162\165\163\164\056\156
\145\164\057\103\120\123\040\151\163\040\151\156\143\157\162\160
\157\162\141\164\145\144\040\142\171\040\162\145\146\145\162\145
\156\143\145\061\037\060\035\006\003\125\004\013\023\026\050\143
\051\040\062\060\060\066\040\105\156\164\162\165\163\164\054\040
\111\156\143\056\061\055\060\053\006\003\125\004\003\023\044\105
\156\164\162\165\163\164\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\105\153\120\124
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

```
#
# Certificate "Certum Root CA"
#
# Issuer: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Serial Number: 65568 (0x10020)
# Subject: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Not Valid Before: Tue Jun 11 10:46:39 2002
# Not Valid After : Fri Jun 11 10:46:39 2027
# Fingerprint (SHA-256):
D8:E0:FE:BC:1D:B2:E3:8D:00:94:0F:37:D2:7D:41:34:4D:99:3E:73:4B:99:D5:65:6D:97:78:D4:D8:14:36:24
# Fingerprint (SHA1): 62:52:DC:40:F7:11:43:A2:2F:DE:9E:F7:34:8E:06:42:51:B1:81:18
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\033\060\031\006\003\125\004\012\023\022\125\156\151\172\145\164
\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060\020
\006\003\125\004\003\023\011\103\145\162\164\165\155\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\033\060\031\006\003\125\004\012\023\022\125\156\151\172\145\164
\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060\020
\006\003\125\004\003\023\011\103\145\162\164\165\155\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\001\000\040
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\014\060\202\001\364\240\003\002\001\002\002\003\001
\000\040\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\000\060\076\061\013\060\011\006\003\125\004\006\023\002\120\114
\061\033\060\031\006\003\125\004\012\023\022\125\156\151\172\145
\164\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060
\020\006\003\125\004\003\023\011\103\145\162\164\165\155\040\103
\101\060\036\027\015\060\062\060\066\061\061\061\060\064\066\063
\071\132\027\015\062\067\060\066\061\061\061\060\064\066\063\071
\132\060\076\061\013\060\011\006\003\125\004\006\023\002\120\114
\061\033\060\031\006\003\125\004\012\023\022\125\156\151\172\145
\164\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060
\020\006\003\125\004\003\023\011\103\145\162\164\165\155\040\103
\101\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001
```

\001\000\316\261\301\056\323\117\174\315\045\316\030\076\117\304
\214\157\200\152\163\310\133\121\370\233\322\334\273\000\134\261
\240\374\165\003\356\201\360\210\356\043\122\351\346\025\063\215
\254\055\011\305\166\371\053\071\200\211\344\227\113\220\245\250
\170\370\163\103\173\244\141\260\330\130\314\341\154\146\176\234
\363\011\136\125\143\204\325\250\357\363\261\056\060\150\263\304
\074\330\254\156\215\231\132\220\116\064\334\066\232\217\201\210
\120\267\155\226\102\011\363\327\225\203\015\101\113\260\152\153
\370\374\017\176\142\237\147\304\355\046\137\020\046\017\010\117
\360\244\127\050\316\217\270\355\105\366\156\356\045\135\252\156
\071\276\344\223\057\331\107\240\162\353\372\246\133\257\312\123
\077\342\016\306\226\126\021\156\367\351\146\251\046\330\177\225
\123\355\012\205\210\272\117\051\245\102\214\136\266\374\205\040
\000\252\150\013\241\032\205\001\234\304\106\143\202\210\266\042
\261\356\376\252\106\131\176\317\065\054\325\266\332\135\367\110
\063\024\124\266\353\331\157\316\315\210\326\253\033\332\226\073
\035\131\002\003\001\000\001\243\023\060\021\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\015\006\011
\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000
\270\215\316\357\347\024\272\317\356\260\104\222\154\264\071\076
\242\204\156\255\270\041\167\322\324\167\202\207\346\040\101\201
\356\342\370\021\267\143\321\027\067\276\031\166\044\034\004\032
\114\353\075\252\147\157\055\324\315\376\145\061\160\305\033\246
\002\012\272\140\173\155\130\302\232\111\376\143\062\013\153\343
\072\300\254\253\073\260\350\323\011\121\214\020\203\306\064\340
\305\053\340\032\266\140\024\047\154\062\167\214\274\262\162\230
\317\315\314\077\271\310\044\102\024\326\127\374\346\046\103\251
\035\345\200\220\316\003\124\050\076\367\077\323\370\115\355\152
\012\072\223\023\233\073\024\043\023\143\234\077\321\207\047\171
\345\114\121\343\001\255\205\135\032\073\261\325\163\020\244\323
\362\274\156\144\365\132\126\220\250\307\016\114\164\017\056\161
\073\367\310\107\364\151\157\025\362\021\136\203\036\234\174\122
\256\375\002\332\022\250\131\147\030\333\274\160\335\233\261\151
\355\200\316\211\100\110\152\016\065\312\051\146\025\041\224\054
\350\140\052\233\205\112\100\363\153\212\044\354\006\026\054\163
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Certum Root CA"
Issuer: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
Serial Number: 65568 (0x10020)
Subject: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
Not Valid Before: Tue Jun 11 10:46:39 2002
Not Valid After : Fri Jun 11 10:46:39 2027
Fingerprint (SHA-256):
D8:E0:FE:BC:1D:B2:E3:8D:00:94:0F:37:D2:7D:41:34:4D:99:3E:73:4B:99:D5:65:6D:97:78:D4:D8:14:36:24

Fingerprint (SHA1): 62:52:DC:40:F7:11:43:A2:2F:DE:9E:F7:34:8E:06:42:51:B1:81:18
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\142\122\334\100\367\021\103\242\057\336\236\367\064\216\006\102
\121\261\201\030
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\054\217\237\146\035\030\220\261\107\046\235\216\206\202\214\251
END
CKA_ISSUER MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\033\060\031\006\003\125\004\012\023\022\125\156\151\172\145\164
\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060\020
\006\003\125\004\003\023\011\103\145\162\164\165\155\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\001\000\040
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Comodo AAA Services root"
#
Issuer: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
Serial Number: 1 (0x1)
Subject: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
Not Valid Before: Thu Jan 01 00:00:00 2004
Not Valid After : Sun Dec 31 23:59:59 2028
Fingerprint (SHA-256):
D7:A7:A0:FB:5D:7E:27:31:D7:71:E9:48:4E:BC:DE:F7:1D:5F:0C:3E:0A:29:48:78:2B:C8:3E:E0:EA:69:9E:F4
Fingerprint (SHA1): D1:EB:23:A4:6D:17:D6:8F:D9:25:64:C2:F1:F1:60:17:64:D8:E3:49
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Comodo AAA Services root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\173\061\013\060\011\006\003\125\004\006\023\002\107\102\061
\033\060\031\006\003\125\004\010\014\022\107\162\145\141\164\145
\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060\016

\006\003\125\004\007\014\007\123\141\154\146\157\162\144\061\032
\060\030\006\003\125\004\012\014\021\103\157\155\157\144\157\040
\103\101\040\114\151\155\151\164\145\144\061\041\060\037\006\003
\125\004\003\014\030\101\101\101\040\103\145\162\164\151\146\151
\143\141\164\145\040\123\145\162\166\151\143\145\163
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\173\061\013\060\011\006\003\125\004\006\023\002\107\102\061
\033\060\031\006\003\125\004\010\014\022\107\162\145\141\164\145
\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060\016
\006\003\125\004\007\014\007\123\141\154\146\157\162\144\061\032
\060\030\006\003\125\004\012\014\021\103\157\155\157\144\157\040
\103\101\040\114\151\155\151\164\145\144\061\041\060\037\006\003
\125\004\003\014\030\101\101\101\040\103\145\162\164\151\146\151
\143\141\164\145\040\123\145\162\166\151\143\145\163
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\062\060\202\003\032\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\173\061\013\060\011\006\003\125\004\006\023\002\107\102\061\033
\060\031\006\003\125\004\010\014\022\107\162\145\141\164\145\162
\040\115\141\156\143\150\145\163\164\145\162\061\020\060\016\006
\003\125\004\007\014\007\123\141\154\146\157\162\144\061\032\060
\030\006\003\125\004\012\014\021\103\157\155\157\144\157\040\103
\101\040\114\151\155\151\164\145\144\061\041\060\037\006\003\125
\004\003\014\030\101\101\101\040\103\145\162\164\151\146\151\143
\141\164\145\040\123\145\162\166\151\143\145\163\060\036\027\015
\060\064\060\061\060\061\060\060\060\060\060\060\132\027\015\062
\070\061\062\063\061\062\063\065\071\065\071\132\060\173\061\013
\060\011\006\003\125\004\006\023\002\107\102\061\033\060\031\006
\003\125\004\010\014\022\107\162\145\141\164\145\162\040\115\141
\156\143\150\145\163\164\145\162\061\020\060\016\006\003\125\004
\007\014\007\123\141\154\146\157\162\144\061\032\060\030\006\003
\125\004\012\014\021\103\157\155\157\144\157\040\103\101\040\114
\151\155\151\164\145\144\061\041\060\037\006\003\125\004\003\014
\030\101\101\101\040\103\145\162\164\151\146\151\143\141\164\145
\040\123\145\162\166\151\143\145\163\060\202\001\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017
\000\060\202\001\012\002\202\001\001\000\276\100\235\364\156\341
\352\166\207\034\115\105\104\216\276\106\310\203\006\235\301\052
\376\030\037\216\344\002\372\363\253\135\120\212\026\061\013\232
\006\320\305\160\042\315\111\055\124\143\314\266\156\150\106\013
\123\352\313\114\044\300\274\162\116\352\361\025\256\364\124\232
\022\012\303\172\262\063\140\342\332\211\125\363\042\130\363\336

\334\317\357\203\206\242\214\224\117\237\150\362\230\220\106\204
\047\307\166\277\343\314\065\054\213\136\007\144\145\202\300\110
\260\250\221\371\141\237\166\040\120\250\221\307\146\265\353\170
\142\003\126\360\212\032\023\352\061\243\036\240\231\375\070\366
\366\047\062\130\157\007\365\153\270\373\024\053\257\267\252\314
\326\143\137\163\214\332\005\231\250\070\250\313\027\170\066\121
\254\351\236\364\170\072\215\317\017\331\102\342\230\014\253\057
\237\016\001\336\357\237\231\111\361\055\337\254\164\115\033\230
\265\107\305\345\051\321\371\220\030\307\142\234\276\203\307\046
\173\076\212\045\307\300\335\235\346\065\150\020\040\235\217\330
\336\322\303\204\234\015\136\350\057\311\002\003\001\000\001\243
\201\300\060\201\275\060\035\006\003\125\035\016\004\026\004\024
\240\021\012\043\076\226\361\007\354\342\257\051\357\202\245\177
\320\060\244\264\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\006\060\017\006\003\125\035\023\001\001\377\004\005
\060\003\001\001\377\060\173\006\003\125\035\037\004\164\060\162
\060\070\240\066\240\064\206\062\150\164\164\160\072\057\057\143
\162\154\056\143\157\155\157\144\157\143\141\056\143\157\155\057
\101\101\101\103\145\162\164\151\146\151\143\141\164\145\123\145
\162\166\151\143\145\163\056\143\162\154\060\066\240\064\240\062
\206\060\150\164\164\160\072\057\057\143\162\154\056\143\157\155
\157\144\157\056\156\145\164\057\101\101\101\103\145\162\164\151
\146\151\143\141\164\145\123\145\162\166\151\143\145\163\056\143
\162\154\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\000\003\202\001\001\000\010\126\374\002\360\233\350\377\244\372
\326\173\306\104\200\316\117\304\305\366\000\130\314\246\266\274
\024\111\150\004\166\350\346\356\135\354\002\017\140\326\215\120
\030\117\046\116\001\343\346\260\245\356\277\274\164\124\101\277
\375\374\022\270\307\117\132\364\211\140\005\177\140\267\005\112
\363\366\361\302\277\304\271\164\206\266\055\175\153\314\322\363
\106\335\057\306\340\152\303\303\064\003\054\175\226\335\132\302
\016\247\012\231\301\005\213\253\014\057\363\134\072\317\154\067
\125\011\207\336\123\100\154\130\357\374\266\253\145\156\004\366
\033\334\074\340\132\025\306\236\331\361\131\110\060\041\145\003
\154\354\351\041\163\354\233\003\241\340\067\255\240\025\030\217
\372\272\002\316\247\054\251\020\023\054\324\345\010\046\253\042
\227\140\370\220\136\164\324\242\232\123\275\362\251\150\340\242
\156\302\327\154\261\243\017\236\277\353\150\347\126\362\256\362
\343\053\070\072\011\201\265\153\205\327\276\055\355\077\032\267
\262\143\342\365\142\054\202\324\152\000\101\120\361\071\203\237
\225\351\066\226\230\156
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Comodo AAA Services root"
Issuer: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB

```
# Serial Number: 1 (0x1)
# Subject: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Thu Jan 01 00:00:00 2004
# Not Valid After : Sun Dec 31 23:59:59 2028
# Fingerprint (SHA-256):
D7:A7:A0:FB:5D:7E:27:31:D7:71:E9:48:4E:BC:DE:F7:1D:5F:0C:3E:0A:29:48:78:2B:C8:3E:E0:EA:69:9E:F4
# Fingerprint (SHA1): D1:EB:23:A4:6D:17:D6:8F:D9:25:64:C2:F1:F1:60:17:64:D8:E3:49
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Comodo AAA Services root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\321\353\043\244\155\027\326\217\331\045\144\302\361\361\140\027
\144\330\343\111
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\111\171\004\260\353\207\031\254\107\260\274\021\121\233\164\320
END
CKA_ISSUER MULTILINE_OCTAL
\060\173\061\013\060\011\006\003\125\004\006\023\002\107\102\061
\033\060\031\006\003\125\004\010\014\022\107\162\145\141\164\145
\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060\016
\006\003\125\004\007\014\007\123\141\154\146\157\162\144\061\032
\060\030\006\003\125\004\012\014\021\103\157\155\157\144\157\040
\103\101\040\114\151\155\151\164\145\144\061\041\060\037\006\003
\125\004\003\014\030\101\101\101\040\103\145\162\164\151\146\151
\143\141\164\145\040\123\145\162\166\151\143\145\163
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "QuoVadis Root CA 2"
#
# Issuer: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
# Serial Number: 1289 (0x509)
# Subject: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
# Not Valid Before: Fri Nov 24 18:27:00 2006
# Not Valid After : Mon Nov 24 18:23:33 2031
# Fingerprint (SHA-256):
85:A0:DD:7D:D7:20:AD:B7:FF:05:F8:3D:54:2B:20:9D:C7:FF:45:28:F7:D6:77:B1:83:89:FE:A5:E5:C4:9E:86
# Fingerprint (SHA1): CA:3A:FB:CF:12:40:36:4B:44:B2:16:20:88:80:48:39:19:93:7C:F7
```

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\005\011
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\267\060\202\003\237\240\003\002\001\002\002\002\005
\011\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000
\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062\060\036\027\015\060\066\061\061\062
\064\061\070\062\067\060\060\132\027\015\063\061\061\061\062\064
\061\070\062\063\063\063\132\060\105\061\013\060\011\006\003\125
\004\006\023\002\102\115\061\031\060\027\006\003\125\004\012\023
\020\121\165\157\126\141\144\151\163\040\114\151\155\151\164\145
\144\061\033\060\031\006\003\125\004\003\023\022\121\165\157\126
\141\144\151\163\040\122\157\157\164\040\103\101\040\062\060\202
\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\232
\030\312\113\224\015\000\055\257\003\051\212\360\017\201\310\256
\114\031\205\035\010\237\253\051\104\205\363\057\201\255\062\036
\220\106\277\243\206\046\032\036\376\176\034\030\072\134\234\140
\027\052\072\164\203\063\060\175\141\124\021\313\355\253\340\346
\322\242\176\365\153\157\030\267\012\013\055\375\351\076\357\012
\306\263\020\351\334\302\106\027\370\135\375\244\332\377\236\111
\132\234\346\063\346\044\226\367\077\272\133\053\034\172\065\302
\326\147\376\253\146\120\213\155\050\140\053\357\327\140\303\307

\223\274\215\066\221\363\177\370\333\021\023\304\234\167\166\301
\256\267\002\152\201\172\251\105\203\342\005\346\271\126\301\224
\067\217\110\161\143\042\354\027\145\007\225\212\113\337\217\306
\132\012\345\260\343\137\136\153\021\253\014\371\205\353\104\351
\370\004\163\362\351\376\134\230\214\365\163\257\153\264\176\315
\324\134\002\053\114\071\341\262\225\225\055\102\207\327\325\263
\220\103\267\154\023\361\336\335\366\304\370\211\077\321\165\365
\222\303\221\325\212\210\320\220\354\334\155\336\211\302\145\161
\226\213\015\003\375\234\277\133\026\254\222\333\352\376\171\174
\255\353\257\367\026\313\333\315\045\053\345\037\373\232\237\342
\121\314\072\123\014\110\346\016\275\311\264\166\006\122\346\021
\023\205\162\143\003\004\340\004\066\053\040\031\002\350\164\247
\037\266\311\126\146\360\165\045\334\147\301\016\141\140\210\263
\076\321\250\374\243\332\035\260\321\261\043\124\337\104\166\155
\355\101\330\301\262\042\266\123\034\337\065\035\334\241\167\052
\061\344\055\365\345\345\333\310\340\377\345\200\327\013\143\240
\377\063\241\017\272\054\025\025\352\227\263\322\242\265\276\362
\214\226\036\032\217\035\154\244\141\067\271\206\163\063\327\227
\226\236\043\175\202\244\114\201\342\241\321\272\147\137\225\007
\243\047\021\356\026\020\173\274\105\112\114\262\004\322\253\357
\325\375\014\121\316\120\152\010\061\371\221\332\014\217\144\134
\003\303\072\213\040\077\156\215\147\075\072\326\376\175\133\210
\311\136\373\314\141\334\213\063\167\323\104\062\065\011\142\004
\222\026\020\330\236\047\107\373\073\041\343\370\353\035\133\002
\003\001\000\001\243\201\260\060\201\255\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\013\006\003\125
\035\017\004\004\003\002\001\006\060\035\006\003\125\035\016\004
\026\004\024\032\204\142\274\110\114\063\045\004\324\356\320\366
\003\304\031\106\321\224\153\060\156\006\003\125\035\043\004\147
\060\145\200\024\032\204\142\274\110\114\063\045\004\324\356\320
\366\003\304\031\106\321\224\153\241\111\244\107\060\105\061\013
\060\011\006\003\125\004\006\023\002\102\115\061\031\060\027\006
\003\125\004\012\023\020\121\165\157\126\141\144\151\163\040\114
\151\155\151\164\145\144\061\033\060\031\006\003\125\004\003\023
\022\121\165\157\126\141\144\151\163\040\122\157\157\164\040\103
\101\040\062\202\002\005\011\060\015\006\011\052\206\110\206\367
\015\001\001\005\005\000\003\202\002\001\000\076\012\026\115\237
\006\133\250\256\161\135\057\005\057\147\346\023\105\203\304\066
\366\363\300\046\014\015\265\107\144\135\370\264\162\311\106\245
\003\030\047\125\211\170\175\166\352\226\064\200\027\040\334\347
\203\370\215\374\007\270\332\137\115\056\147\262\204\375\331\104
\374\167\120\201\346\174\264\311\015\013\162\123\370\166\007\007
\101\107\226\014\373\340\202\046\223\125\214\376\042\037\140\145
\174\137\347\046\263\367\062\220\230\120\324\067\161\125\366\222
\041\170\367\225\171\372\370\055\046\207\146\126\060\167\246\067
\170\063\122\020\130\256\077\141\216\362\152\261\357\030\176\112
\131\143\312\215\242\126\325\247\057\274\126\037\317\071\301\342
\373\012\250\025\054\175\115\172\143\306\154\227\104\074\322\157

\303\112\027\012\370\220\322\127\242\031\121\245\055\227\101\332
\007\117\251\120\332\220\215\224\106\341\076\360\224\375\020\000
\070\365\073\350\100\341\264\156\126\032\040\314\157\130\215\355
\056\105\217\326\351\223\077\347\261\054\337\072\326\042\214\334
\204\273\042\157\320\370\344\306\071\351\004\210\074\303\272\353
\125\172\155\200\231\044\365\154\001\373\370\227\260\224\133\353
\375\322\157\361\167\150\015\065\144\043\254\270\125\241\003\321
\115\102\031\334\370\165\131\126\243\371\250\111\171\370\257\016
\271\021\240\174\267\152\355\064\320\266\046\142\070\032\207\014
\370\350\375\056\323\220\177\007\221\052\035\326\176\134\205\203
\231\260\070\010\077\351\136\371\065\007\344\311\142\156\127\177
\247\120\225\367\272\310\233\346\216\242\001\305\326\146\277\171
\141\363\074\034\341\271\202\134\135\240\303\351\330\110\275\031
\242\021\024\031\156\262\206\033\150\076\110\067\032\210\267\135
\226\136\234\307\357\047\142\010\342\221\031\134\322\361\041\335
\272\027\102\202\227\161\201\123\061\251\237\366\175\142\277\162
\341\243\223\035\314\212\046\132\011\070\320\316\327\015\200\026
\264\170\245\072\207\114\215\212\245\325\106\227\362\054\020\271
\274\124\042\300\001\120\151\103\236\364\262\357\155\370\354\332
\361\343\261\357\337\221\217\124\052\013\045\301\046\031\304\122
\020\005\145\325\202\020\352\302\061\315\056
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "QuoVadis Root CA 2"
Issuer: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
Serial Number: 1289 (0x509)
Subject: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
Not Valid Before: Fri Nov 24 18:27:00 2006
Not Valid After : Mon Nov 24 18:23:33 2031
Fingerprint (SHA-256):
85:A0:DD:7D:D7:20:AD:B7:FF:05:F8:3D:54:2B:20:9D:C7:FF:45:28:F7:D6:77:B1:83:89:FE:A5:E5:C4:9E:86
Fingerprint (SHA1): CA:3A:FB:CF:12:40:36:4B:44:B2:16:20:88:80:48:39:19:93:7C:F7
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\312\072\373\317\022\100\066\113\104\262\026\040\210\200\110\071
\031\223\174\367
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\136\071\173\335\370\272\354\202\351\254\142\272\014\124\000\053
END
CKA_ISSUER MULTILINE_OCTAL

\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\005\011
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "QuoVadis Root CA 3"
#
Issuer: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
Serial Number: 1478 (0x5c6)
Subject: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
Not Valid Before: Fri Nov 24 19:11:23 2006
Not Valid After : Mon Nov 24 19:06:44 2031
Fingerprint (SHA-256):
18:F1:FC:7F:20:5D:F8:AD:DD:EB:7F:E0:07:DD:57:E3:AF:37:5A:9C:4D:8D:73:54:6B:F4:F1:FE:D1:E1:8D:35
Fingerprint (SHA1): 1F:49:14:F7:D8:74:95:1D:DD:AE:02:C0:BE:FD:3A:2D:82:75:51:85
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\005\306

END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\235\060\202\004\205\240\003\002\001\002\002\002\005
\306\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000
\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063\060\036\027\015\060\066\061\061\062
\064\061\071\061\061\062\063\132\027\015\063\061\061\061\062\064
\061\071\060\066\064\064\132\060\105\061\013\060\011\006\003\125
\004\006\023\002\102\115\061\031\060\027\006\003\125\004\012\023
\020\121\165\157\126\141\144\151\163\040\114\151\155\151\164\145
\144\061\033\060\031\006\003\125\004\003\023\022\121\165\157\126
\141\144\151\163\040\122\157\157\164\040\103\101\040\063\060\202
\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\314
\127\102\026\124\234\346\230\323\323\115\356\376\355\307\237\103
\071\112\145\263\350\026\210\064\333\015\131\221\164\317\222\270
\004\100\255\002\113\061\253\274\215\221\150\330\040\016\032\001
\342\032\173\116\027\135\342\212\267\077\231\032\315\353\141\253
\302\145\246\037\267\267\275\267\217\374\375\160\217\013\240\147
\276\001\242\131\317\161\346\017\051\166\377\261\126\171\105\053
\037\236\172\124\350\243\051\065\150\244\001\117\017\244\056\067
\357\033\277\343\217\020\250\162\253\130\127\347\124\206\310\311
\363\133\332\054\332\135\216\156\074\243\076\332\373\202\345\335
\362\134\262\005\063\157\212\066\316\320\023\116\377\277\112\014
\064\114\246\303\041\275\120\004\125\353\261\273\235\373\105\036
\144\025\336\125\001\214\002\166\265\313\241\077\102\151\274\057
\275\150\103\026\126\211\052\067\141\221\375\246\256\116\300\313
\024\145\224\067\113\222\006\357\004\320\310\234\210\333\013\173
\201\257\261\075\052\304\145\072\170\266\356\334\200\261\322\323
\231\234\072\356\153\132\153\263\215\267\325\316\234\302\276\245
\113\057\026\261\236\150\073\006\157\256\175\237\370\336\354\314
\051\247\230\243\045\103\057\357\361\137\046\341\210\115\370\136
\156\327\331\024\156\031\063\151\247\073\204\211\223\304\123\125
\023\241\121\170\100\370\270\311\242\356\173\272\122\102\203\236
\024\355\005\122\132\131\126\247\227\374\235\077\012\051\330\334
\117\221\016\023\274\336\225\244\337\213\231\276\254\233\063\210
\357\265\201\257\033\306\042\123\310\366\307\356\227\024\260\305
\174\170\122\310\360\316\156\167\140\204\246\351\052\166\040\355
\130\001\027\060\223\351\032\213\340\163\143\331\152\222\224\111
\116\264\255\112\205\304\243\042\060\374\011\355\150\042\163\246
\210\014\125\041\130\305\341\072\237\052\335\312\341\220\340\331
\163\253\154\200\270\350\013\144\223\240\234\214\031\377\263\322
\014\354\221\046\207\212\263\242\341\160\217\054\012\345\315\155
\150\121\353\332\077\005\177\213\062\346\023\134\153\376\137\100
\342\042\310\264\264\144\117\326\272\175\110\076\250\151\014\327

\273\206\161\311\163\270\077\073\235\045\113\332\377\100\353\002
\003\001\000\001\243\202\001\225\060\202\001\221\060\017\006\003
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\201\341
\006\003\125\035\040\004\201\331\060\201\326\060\201\323\006\011
\053\006\001\004\001\276\130\000\003\060\201\305\060\201\223\006
\010\053\006\001\005\005\007\002\002\060\201\206\032\201\203\101
\156\171\040\165\163\145\040\157\146\040\164\150\151\163\040\103
\145\162\164\151\146\151\143\141\164\145\040\143\157\156\163\164
\151\164\165\164\145\163\040\141\143\143\145\160\164\141\156\143
\145\040\157\146\040\164\150\145\040\121\165\157\126\141\144\151
\163\040\122\157\157\164\040\103\101\040\063\040\103\145\162\164
\151\146\151\143\141\164\145\040\120\157\154\151\143\171\040\057
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\120
\162\141\143\164\151\143\145\040\123\164\141\164\145\155\145\156
\164\056\060\055\006\010\053\006\001\005\005\007\002\001\026\041
\150\164\164\160\072\057\057\167\167\167\056\161\165\157\166\141
\144\151\163\147\154\157\142\141\154\056\143\157\155\057\143\160
\163\060\013\006\003\125\035\017\004\004\003\002\001\006\060\035
\006\003\125\035\016\004\026\004\024\362\300\023\340\202\103\076
\373\356\057\147\062\226\065\134\333\270\313\002\320\060\156\006
\003\125\035\043\004\147\060\145\200\024\362\300\023\340\202\103
\076\373\356\057\147\062\226\065\134\333\270\313\002\320\241\111
\244\107\060\105\061\013\060\011\006\003\125\004\006\023\002\102
\115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126
\141\144\151\163\040\114\151\155\151\164\145\144\061\033\060\031
\006\003\125\004\003\023\022\121\165\157\126\141\144\151\163\040
\122\157\157\164\040\103\101\040\063\202\002\005\306\060\015\006
\011\052\206\110\206\367\015\001\001\005\005\000\003\202\002\001
\000\117\255\240\054\114\372\300\362\157\367\146\125\253\043\064
\356\347\051\332\303\133\266\260\203\331\320\320\342\041\373\363
\140\247\073\135\140\123\047\242\233\366\010\042\052\347\277\240
\162\345\234\044\152\061\261\220\172\047\333\204\021\211\047\246
\167\132\070\327\277\254\206\374\356\135\203\274\006\306\321\167
\153\017\155\044\057\113\172\154\247\007\226\312\343\204\237\255
\210\213\035\253\026\215\133\146\027\331\026\364\213\200\322\335
\370\262\166\303\374\070\023\252\014\336\102\151\053\156\363\074
\353\200\047\333\365\246\104\015\237\132\125\131\013\325\015\122
\110\305\256\237\362\057\200\305\352\062\120\065\022\227\056\301
\341\377\361\043\210\121\070\237\362\146\126\166\347\017\121\227
\245\122\014\115\111\121\225\066\075\277\242\113\014\020\035\206
\231\114\252\363\162\021\223\344\352\366\233\332\250\135\247\115
\267\236\002\256\163\000\310\332\043\003\350\371\352\031\164\142
\000\224\313\042\040\276\224\247\131\265\202\152\276\231\171\172
\251\362\112\044\122\367\164\375\272\116\346\250\035\002\156\261
\015\200\104\301\256\323\043\067\137\273\205\174\053\222\056\350
\176\245\213\335\231\341\277\047\157\055\135\252\173\207\376\012
\335\113\374\216\365\046\344\156\160\102\156\063\354\061\236\173
\223\301\344\311\151\032\075\300\153\116\042\155\356\253\130\115

\306\320\101\301\053\352\117\022\207\136\353\105\330\154\365\230
\002\323\240\330\125\212\006\231\031\242\240\167\321\060\236\254
\314\165\356\203\365\260\142\071\317\154\127\342\114\322\221\013
\016\165\050\033\232\277\375\032\103\361\312\167\373\073\217\141
\270\151\050\026\102\004\136\160\052\034\041\330\217\341\275\043
\133\055\164\100\222\331\143\031\015\163\335\151\274\142\107\274
\340\164\053\262\353\175\276\101\033\265\300\106\305\241\042\313
\137\116\301\050\222\336\030\272\325\052\050\273\021\213\027\223
\230\231\140\224\134\043\317\132\047\227\136\013\005\006\223\067
\036\073\151\066\353\251\236\141\035\217\062\332\216\014\326\164
\076\173\011\044\332\001\167\107\304\073\315\064\214\231\365\312
\341\045\141\063\262\131\033\342\156\327\067\127\266\015\251\022
\332
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "QuoVadis Root CA 3"
Issuer: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
Serial Number: 1478 (0x5c6)
Subject: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
Not Valid Before: Fri Nov 24 19:11:23 2006
Not Valid After : Mon Nov 24 19:06:44 2031
Fingerprint (SHA-256):
18:F1:FC:7F:20:5D:F8:AD:DD:EB:7F:E0:07:DD:57:E3:AF:37:5A:9C:4D:8D:73:54:6B:F4:F1:FE:D1:E1:8D:35
Fingerprint (SHA1): 1F:49:14:F7:D8:74:95:1D:DD:AE:02:C0:BE:FD:3A:2D:82:75:51:85
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\037\111\024\367\330\164\225\035\335\256\002\300\276\375\072\055
\202\165\121\205
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\061\205\074\142\224\227\143\271\252\375\211\116\257\157\340\317
END
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\005\306

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END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Security Communication Root CA"
#
# Issuer: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Not Valid Before: Tue Sep 30 04:20:49 2003
# Not Valid After : Sat Sep 30 04:20:49 2023
# Fingerprint (SHA-256):
E7:5E:72:ED:9F:56:0E:EC:6E:B4:80:00:73:A4:3F:C3:AD:19:19:5A:39:22:82:01:78:95:97:4A:99:02:6B:6C
# Fingerprint (SHA1): 36:B1:2B:49:F9:81:9E:D7:4C:9E:BC:38:0F:C6:56:8F:5D:AC:B2:F7
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\030\060\026\006\003\125\004\012\023\017\123\105\103\117\115\040
\124\162\165\163\164\056\156\145\164\061\047\060\045\006\003\125
\004\013\023\036\123\145\143\165\162\151\164\171\040\103\157\155
\155\165\156\151\143\141\164\151\157\156\040\122\157\157\164\103
\101\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\030\060\026\006\003\125\004\012\023\017\123\105\103\117\115\040
\124\162\165\163\164\056\156\145\164\061\047\060\045\006\003\125
\004\013\023\036\123\145\143\165\162\151\164\171\040\103\157\155
\155\165\156\151\143\141\164\151\157\156\040\122\157\157\164\103
\101\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\132\060\202\002\102\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\120\061\013\060\011\006\003\125\004\006\023\002\112\120\061\030
\060\026\006\003\125\004\012\023\017\123\105\103\117\115\040\124
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\162\165\163\164\056\156\145\164\061\047\060\045\006\003\125\004
\013\023\036\123\145\143\165\162\151\164\171\040\103\157\155\155
\165\156\151\143\141\164\151\157\156\040\122\157\157\164\103\101
\061\060\036\027\015\060\063\060\071\063\060\060\064\062\060\064
\071\132\027\015\062\063\060\071\063\060\060\064\062\060\064\071
\132\060\120\061\013\060\011\006\003\125\004\006\023\002\112\120
\061\030\060\026\006\003\125\004\012\023\017\123\105\103\117\115
\040\124\162\165\163\164\056\156\145\164\061\047\060\045\006\003
\125\004\013\023\036\123\145\143\165\162\151\164\171\040\103\157
\155\155\165\156\151\143\141\164\151\157\156\040\122\157\157\164
\103\101\061\060\202\001\042\060\015\006\011\052\206\110\206\367
\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002
\202\001\001\000\263\263\376\177\323\155\261\357\026\174\127\245
\014\155\166\212\057\113\277\144\373\114\356\212\360\363\051\174
\365\377\356\052\340\351\351\272\133\144\042\232\232\157\054\072
\046\151\121\005\231\046\334\325\034\152\161\306\232\175\036\235
\335\174\154\306\214\147\147\112\076\370\161\260\031\047\251\011
\014\246\225\277\113\214\014\372\125\230\073\330\350\042\241\113
\161\070\171\254\227\222\151\263\211\176\352\041\150\006\230\024
\226\207\322\141\066\274\155\047\126\236\127\356\300\300\126\375
\062\317\244\331\216\302\043\327\215\250\363\330\045\254\227\344
\160\070\364\266\072\264\235\073\227\046\103\243\241\274\111\131
\162\114\043\060\207\001\130\366\116\276\034\150\126\146\257\315
\101\135\310\263\115\052\125\106\253\037\332\036\342\100\075\333
\315\175\271\222\200\234\067\335\014\226\144\235\334\042\367\144
\213\337\141\336\025\224\122\025\240\175\122\311\113\250\041\311
\306\261\355\313\303\225\140\321\017\360\253\160\370\337\313\115
\176\354\326\372\253\331\275\177\124\362\245\351\171\372\331\326
\166\044\050\163\002\003\001\000\001\243\077\060\075\060\035\006
\003\125\035\016\004\026\004\024\240\163\111\231\150\334\205\133
\145\343\233\050\057\127\237\275\063\274\007\110\060\013\006\003
\125\035\017\004\004\003\002\001\006\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\003\202\001\001\000\150\100
\251\250\273\344\117\135\171\263\005\265\027\263\140\023\353\306
\222\135\340\321\323\152\376\373\276\233\155\277\307\005\155\131
\040\304\034\360\267\332\204\130\002\143\372\110\026\357\117\245
\013\367\112\230\362\077\236\033\255\107\153\143\316\010\107\353
\122\077\170\234\257\115\256\370\325\117\317\232\230\052\020\101
\071\122\304\335\331\233\016\357\223\001\256\262\056\312\150\102
\044\102\154\260\263\072\076\315\351\332\110\304\025\313\351\371
\007\017\222\120\111\212\335\061\227\137\311\351\067\252\073\131
\145\227\224\062\311\263\237\076\072\142\130\305\111\255\142\016
\161\245\062\252\057\306\211\166\103\100\023\023\147\075\242\124
\045\020\313\361\072\362\331\372\333\111\126\273\246\376\247\101
\065\303\340\210\141\311\210\307\337\066\020\042\230\131\352\260
\112\373\126\026\163\156\254\115\367\042\241\117\255\035\172\055
\105\047\345\060\301\136\362\332\023\313\045\102\121\225\107\003

\214\154\041\314\164\102\355\123\377\063\213\217\017\127\001\026
\057\317\246\356\311\160\042\024\275\375\276\154\013\003
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Security Communication Root CA"
Issuer: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
Serial Number: 0 (0x0)
Subject: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
Not Valid Before: Tue Sep 30 04:20:49 2003
Not Valid After : Sat Sep 30 04:20:49 2023
Fingerprint (SHA-256):
E7:5E:72:ED:9F:56:0E:EC:6E:B4:80:00:73:A4:3F:C3:AD:19:19:5A:39:22:82:01:78:95:97:4A:99:02:6B:6C
Fingerprint (SHA1): 36:B1:2B:49:F9:81:9E:D7:4C:9E:BC:38:0F:C6:56:8F:5D:AC:B2:F7
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\066\261\053\111\371\201\236\327\114\236\274\070\017\306\126\217
\135\254\262\367
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\361\274\143\152\124\340\265\047\365\315\347\032\343\115\156\112
END
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\030\060\026\006\003\125\004\012\023\017\123\105\103\117\115\040
\124\162\165\163\164\056\156\145\164\061\047\060\045\006\003\125
\004\013\023\036\123\145\143\165\162\151\164\171\040\103\157\155
\155\165\156\151\143\141\164\151\157\156\040\122\157\157\164\103
\101\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Camerfirma Chambers of Commerce Root"
#
Issuer: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF

A82743287,C=EU
Serial Number: 0 (0x0)
Subject: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
Not Valid Before: Tue Sep 30 16:13:43 2003
Not Valid After : Wed Sep 30 16:13:44 2037
Fingerprint (SHA-256): 0C:25:8A:12:A5:67:4A:EF:25:F2:8B:A7:DC:FA:EC:EE:A3:48:E5:41:E6:F5:CC:4E:E6:3B:71:B3:61:60:6A:C3
Fingerprint (SHA1): 6E:3A:55:A4:19:0C:19:5C:93:84:3C:C0:DB:72:2E:31:30:61:F0:B1
For Email Distrust After: Mon Mar 01 00:00:00 2021
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Chambers of Commerce Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\042\060
\040\006\003\125\004\003\023\031\103\150\141\155\142\145\162\163
\040\157\146\040\103\157\155\155\145\162\143\145\040\122\157\157
\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\042\060
\040\006\003\125\004\003\023\031\103\150\141\155\142\145\162\163
\040\157\146\040\103\157\155\155\145\162\143\145\040\122\157\157
\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\275\060\202\003\245\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\177\061\013\060\011\006\003\125\004\006\023\002\105\125\061\047
\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155\145
\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101\070

\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004\013
\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150\141
\155\142\145\162\163\151\147\156\056\157\162\147\061\042\060\040
\006\003\125\004\003\023\031\103\150\141\155\142\145\162\163\040
\157\146\040\103\157\155\155\145\162\143\145\040\122\157\157\164
\060\036\027\015\060\063\060\071\063\060\061\066\061\063\064\063
\132\027\015\063\067\060\071\063\060\061\066\061\063\064\064\132
\060\177\061\013\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\042\060
\040\006\003\125\004\003\023\031\103\150\141\155\142\145\162\163
\040\157\146\040\103\157\155\155\145\162\143\145\040\122\157\157
\164\060\202\001\040\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\001\015\000\060\202\001\010\002\202\001
\001\000\267\066\125\345\245\135\030\060\340\332\211\124\221\374
\310\307\122\370\057\120\331\357\261\165\163\145\107\175\033\133
\272\165\305\374\241\210\044\372\057\355\312\010\112\071\124\304
\121\172\265\332\140\352\070\074\201\262\313\361\273\331\221\043
\077\110\001\160\165\251\005\052\255\037\161\363\311\124\075\035
\006\152\100\076\263\014\205\356\134\033\171\302\142\304\270\066
\216\065\135\001\014\043\004\107\065\252\233\140\116\240\146\075
\313\046\012\234\100\241\364\135\230\277\161\253\245\000\150\052
\355\203\172\017\242\024\265\324\042\263\200\260\074\014\132\121
\151\055\130\030\217\355\231\236\361\256\342\225\346\366\107\250
\326\014\017\260\130\130\333\303\146\067\236\233\221\124\063\067
\322\224\034\152\110\311\311\362\245\332\245\014\043\367\043\016
\234\062\125\136\161\234\204\005\121\232\055\375\346\116\052\064
\132\336\312\100\067\147\014\124\041\125\167\332\012\014\314\227
\256\200\334\224\066\112\364\076\316\066\023\036\123\344\254\116
\072\005\354\333\256\162\234\070\213\320\071\073\211\012\076\167
\376\165\002\001\003\243\202\001\104\060\202\001\100\060\022\006
\003\125\035\023\001\001\377\004\010\060\006\001\001\377\002\001
\014\060\074\006\003\125\035\037\004\065\060\063\060\061\240\057
\240\055\206\053\150\164\164\160\072\057\057\143\162\154\056\143
\150\141\155\142\145\162\163\151\147\156\056\157\162\147\057\143
\150\141\155\142\145\162\163\162\157\157\164\056\143\162\154\060
\035\006\003\125\035\016\004\026\004\024\343\224\365\261\115\351
\333\241\051\133\127\213\115\166\006\166\341\321\242\212\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\021
\006\011\140\206\110\001\206\370\102\001\001\004\004\003\002\000
\007\060\047\006\003\125\035\021\004\040\060\036\201\034\143\150
\141\155\142\145\162\163\162\157\157\164\100\143\150\141\155\142
\145\162\163\151\147\156\056\157\162\147\060\047\006\003\125\035
\022\004\040\060\036\201\034\143\150\141\155\142\145\162\163\162
\157\157\164\100\143\150\141\155\142\145\162\163\151\147\156\056

\157\162\147\060\130\006\003\125\035\040\004\121\060\117\060\115
\006\013\053\006\001\004\001\201\207\056\012\003\001\060\076\060
\074\006\010\053\006\001\005\005\007\002\001\026\060\150\164\164
\160\072\057\057\143\160\163\056\143\150\141\155\142\145\162\163
\151\147\156\056\157\162\147\057\143\160\163\057\143\150\141\155
\142\145\162\163\162\157\157\164\056\150\164\155\154\060\015\006
\011\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001
\000\014\101\227\302\032\206\300\042\174\237\373\220\363\032\321
\003\261\357\023\371\041\137\004\234\332\311\245\215\047\154\226
\207\221\276\101\220\001\162\223\347\036\175\137\366\211\306\135
\247\100\011\075\254\111\105\105\334\056\215\060\150\262\011\272
\373\303\057\314\272\013\337\077\167\173\106\175\072\022\044\216
\226\217\074\005\012\157\322\224\050\035\155\014\300\056\210\042
\325\330\317\035\023\307\360\110\327\327\005\247\317\307\107\236
\073\074\064\310\200\117\324\024\273\374\015\120\367\372\263\354
\102\137\251\335\155\310\364\165\317\173\301\162\046\261\001\034
\134\054\375\172\116\264\001\305\005\127\271\347\074\252\005\331
\210\351\007\106\101\316\357\101\201\256\130\337\203\242\256\312
\327\167\037\347\000\074\235\157\216\344\062\011\035\115\170\064
\170\064\074\224\233\046\355\117\161\306\031\172\275\040\042\110
\132\376\113\175\003\267\347\130\276\306\062\116\164\036\150\335
\250\150\133\263\076\356\142\175\331\200\350\012\165\172\267\356
\264\145\232\041\220\340\252\320\230\274\070\265\163\074\213\370
\334
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL
\062\061\060\063\060\061\060\060\060\060\060\060\132
END

Trust for "Camerfirma Chambers of Commerce Root"
Issuer: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
Serial Number: 0 (0x0)
Subject: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
Not Valid Before: Tue Sep 30 16:13:43 2003
Not Valid After : Wed Sep 30 16:13:44 2037
Fingerprint (SHA-256): 0C:25:8A:12:A5:67:4A:EF:25:F2:8B:A7:DC:FA:EC:EE:A3:48:E5:41:E6:F5:CC:4E:E6:3B:71:B3:61:60:6A:C3
Fingerprint (SHA1): 6E:3A:55:A4:19:0C:19:5C:93:84:3C:C0:DB:72:2E:31:30:61:F0:B1
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Chambers of Commerce Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

\156\072\125\244\031\014\031\134\223\204\074\300\333\162\056\061
\060\141\360\261
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\260\001\356\024\331\257\051\030\224\166\216\361\151\063\052\204
END
CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\042\060
\040\006\003\125\004\003\023\031\103\150\141\155\142\145\162\163
\040\157\146\040\103\157\155\155\145\162\143\145\040\122\157\157
\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Camerfirma Global Chambersign Root"
#
Issuer: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
A82743287,C=EU
Serial Number: 0 (0x0)
Subject: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
A82743287,C=EU
Not Valid Before: Tue Sep 30 16:14:18 2003
Not Valid After : Wed Sep 30 16:14:18 2037
Fingerprint (SHA-256):
EF:3C:B4:17:FC:8E:BF:6F:97:87:6C:9E:4E:CE:39:DE:1E:A5:FE:64:91:41:D1:02:8B:7D:11:C0:B2:29:8C:ED
Fingerprint (SHA1): 33:9B:6B:14:50:24:9B:55:7A:01:87:72:84:D9:E0:2F:C3:D2:D8:E9
For Email Distrust After: Mon Mar 01 00:00:00 2021
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Global Chambersign Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\175\061\013\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155

\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\040\060
\036\006\003\125\004\003\023\027\107\154\157\142\141\154\040\103
\150\141\155\142\145\162\163\151\147\156\040\122\157\157\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\175\061\013\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\040\060
\036\006\003\125\004\003\023\027\107\154\157\142\141\154\040\103
\150\141\155\142\145\162\163\151\147\156\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\305\060\202\003\255\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\175\061\013\060\011\006\003\125\004\006\023\002\105\125\061\047
\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155\145
\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101\070
\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004\013
\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150\141
\155\142\145\162\163\151\147\156\056\157\162\147\061\040\060\036
\006\003\125\004\003\023\027\107\154\157\142\141\154\040\103\150
\141\155\142\145\162\163\151\147\156\040\122\157\157\164\060\036
\027\015\060\063\060\071\063\060\061\066\061\064\061\070\132\027
\015\063\067\060\071\063\060\061\066\061\064\061\070\132\060\175
\061\013\060\011\006\003\125\004\006\023\002\105\125\061\047\060
\045\006\003\125\004\012\023\036\101\103\040\103\141\155\145\162
\146\151\162\155\141\040\123\101\040\103\111\106\040\101\070\062
\067\064\063\062\070\067\061\043\060\041\006\003\125\004\013\023
\032\150\164\164\160\072\057\057\167\167\167\056\143\150\141\155
\142\145\162\163\151\147\156\056\157\162\147\061\040\060\036\006
\003\125\004\003\023\027\107\154\157\142\141\154\040\103\150\141
\155\142\145\162\163\151\147\156\040\122\157\157\164\060\202\001
\040\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000
\003\202\001\015\000\060\202\001\010\002\202\001\001\000\242\160
\242\320\237\102\256\133\027\307\330\175\317\024\203\374\117\311
\241\267\023\257\212\327\236\076\004\012\222\213\140\126\372\264
\062\057\210\115\241\140\010\364\267\011\116\240\111\057\111\326
\323\337\235\227\132\237\224\004\160\354\077\131\331\267\314\146

\213\230\122\050\011\002\337\305\057\204\215\172\227\167\277\354
\100\235\045\162\253\265\077\062\230\373\267\267\374\162\204\345
\065\207\371\125\372\243\037\016\157\056\050\335\151\240\331\102
\020\306\370\265\104\302\320\103\177\333\274\344\242\074\152\125
\170\012\167\251\330\352\031\062\267\057\376\134\077\033\356\261
\230\354\312\255\172\151\105\343\226\017\125\366\346\355\165\352
\145\350\062\126\223\106\211\250\045\212\145\006\356\153\277\171
\007\320\361\267\257\355\054\115\222\273\300\250\137\247\147\175
\004\362\025\010\160\254\222\326\175\004\322\063\373\114\266\013
\013\373\032\311\304\215\003\251\176\134\362\120\253\022\245\241
\317\110\120\245\357\322\310\032\023\372\260\177\261\202\034\167
\152\017\137\334\013\225\217\357\103\176\346\105\011\045\002\001
\003\243\202\001\120\060\202\001\114\060\022\006\003\125\035\023
\001\001\377\004\010\060\006\001\001\377\002\001\014\060\077\006
\003\125\035\037\004\070\060\066\060\064\240\062\240\060\206\056
\150\164\164\160\072\057\057\143\162\154\056\143\150\141\155\142
\145\162\163\151\147\156\056\157\162\147\057\143\150\141\155\142
\145\162\163\151\147\156\162\157\157\164\056\143\162\154\060\035
\006\003\125\035\016\004\026\004\024\103\234\066\237\260\236\060
\115\306\316\137\255\020\253\345\003\245\372\251\024\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\021\006
\011\140\206\110\001\206\370\102\001\001\004\004\003\002\000\007
\060\052\006\003\125\035\021\004\043\060\041\201\037\143\150\141
\155\142\145\162\163\151\147\156\162\157\157\164\100\143\150\141
\155\142\145\162\163\151\147\156\056\157\162\147\060\052\006\003
\125\035\022\004\043\060\041\201\037\143\150\141\155\142\145\162
\163\151\147\156\162\157\157\164\100\143\150\141\155\142\145\162
\163\151\147\156\056\157\162\147\060\133\006\003\125\035\040\004
\124\060\122\060\120\006\013\053\006\001\004\001\201\207\056\012
\001\001\060\101\060\077\006\010\053\006\001\005\005\007\002\001
\026\063\150\164\164\160\072\057\057\143\160\163\056\143\150\141
\155\142\145\162\163\151\147\156\056\157\162\147\057\143\160\163
\057\143\150\141\155\142\145\162\163\151\147\156\162\157\157\164
\056\150\164\155\154\060\015\006\011\052\206\110\206\367\015\001
\001\005\005\000\003\202\001\001\000\074\073\160\221\371\004\124
\047\221\341\355\355\376\150\177\141\135\345\101\145\117\062\361
\030\005\224\152\034\336\037\160\333\076\173\062\002\064\265\014
\154\241\212\174\245\364\217\377\324\330\255\027\325\055\004\321
\077\130\200\342\201\131\210\276\300\343\106\223\044\376\220\275
\046\242\060\055\350\227\046\127\065\211\164\226\030\366\025\342
\257\044\031\126\002\002\262\272\017\024\352\306\212\146\301\206
\105\125\213\276\222\276\234\244\004\307\111\074\236\350\051\172
\211\327\376\257\377\150\365\245\027\220\275\254\231\314\245\206
\127\011\147\106\333\326\026\302\106\361\344\251\120\365\217\321
\222\025\323\137\076\306\000\111\072\156\130\262\321\321\047\015
\045\310\062\370\040\021\315\175\062\063\110\224\124\114\335\334
\171\304\060\237\353\216\270\125\265\327\210\134\305\152\044\075
\262\323\005\003\121\306\007\357\314\024\162\164\075\156\162\316

\030\050\214\112\240\167\345\011\053\105\104\107\254\267\147\177
\001\212\005\132\223\276\241\301\377\370\347\016\147\244\107\111
\166\135\165\220\032\365\046\217\360
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL
\062\061\060\063\060\061\060\060\060\060\060\060\132
END

Trust for "Camerfirma Global Chambersign Root"
Issuer: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
A82743287,C=EU
Serial Number: 0 (0x0)
Subject: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
A82743287,C=EU
Not Valid Before: Tue Sep 30 16:14:18 2003
Not Valid After : Wed Sep 30 16:14:18 2037
Fingerprint (SHA-256):
EF:3C:B4:17:FC:8E:BF:6F:97:87:6C:9E:4E:CE:39:DE:1E:A5:FE:64:91:41:D1:02:8B:7D:11:C0:B2:29:8C:ED
Fingerprint (SHA1): 33:9B:6B:14:50:24:9B:55:7A:01:87:72:84:D9:E0:2F:C3:D2:D8:E9
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Global Chambersign Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\063\233\153\024\120\044\233\125\172\001\207\162\204\331\340\057
\303\322\330\351
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\305\346\173\277\006\320\117\103\355\304\172\145\212\373\153\031
END
CKA_ISSUER MULTILINE_OCTAL
\060\175\061\013\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\040\060
\036\006\003\125\004\003\023\027\107\154\157\142\141\154\040\103
\150\141\155\142\145\162\163\151\147\156\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

```
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "XRamp Global CA Root"
#
# Issuer: CN=XRamp Global Certification Authority,O=XRamp Security Services
Inc,OU=www.xrampsecurity.com,C=US
# Serial Number:50:94:6c:ec:18:ea:d5:9c:4d:d5:97:ef:75:8f:a0:ad
# Subject: CN=XRamp Global Certification Authority,O=XRamp Security Services
Inc,OU=www.xrampsecurity.com,C=US
# Not Valid Before: Mon Nov 01 17:14:04 2004
# Not Valid After : Mon Jan 01 05:37:19 2035
# Fingerprint (SHA-256):
CE:CD:DC:90:50:99:D8:DA:DF:C5:B1:D2:09:B7:37:CB:E2:C1:8C:FB:2C:10:C0:FF:0B:CF:0D:32:86:FC:1A:A2
# Fingerprint (SHA1): B8:01:86:D1:EB:9C:86:A5:41:04:CF:30:54:F3:4C:52:B7:E5:58:C6
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "XRamp Global CA Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\036\060\034\006\003\125\004\013\023\025\167\167\167\056\170
\162\141\155\160\163\145\143\165\162\151\164\171\056\143\157\155
\061\044\060\042\006\003\125\004\012\023\033\130\122\141\155\160
\040\123\145\143\165\162\151\164\171\040\123\145\162\166\151\143
\145\163\040\111\156\143\061\055\060\053\006\003\125\004\003\023
\044\130\122\141\155\160\040\107\154\157\142\141\154\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\036\060\034\006\003\125\004\013\023\025\167\167\167\056\170
\162\141\155\160\163\145\143\165\162\151\164\171\056\143\157\155
\061\044\060\042\006\003\125\004\012\023\033\130\122\141\155\160
\040\123\145\143\165\162\151\164\171\040\123\145\162\166\151\143
\145\163\040\111\156\143\061\055\060\053\006\003\125\004\003\023
\044\130\122\141\155\160\040\107\154\157\142\141\154\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\120\224\154\354\030\352\325\234\115\325\227\357\165\217
\240\255
```

END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\060\060\202\003\030\240\003\002\001\002\002\020\120
\224\154\354\030\352\325\234\115\325\227\357\165\217\240\255\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\201
\202\061\013\060\011\006\003\125\004\006\023\002\125\123\061\036
\060\034\006\003\125\004\013\023\025\167\167\167\056\170\162\141
\155\160\163\145\143\165\162\151\164\171\056\143\157\155\061\044
\060\042\006\003\125\004\012\023\033\130\122\141\155\160\040\123
\145\143\165\162\151\164\171\040\123\145\162\166\151\143\145\163
\040\111\156\143\061\055\060\053\006\003\125\004\003\023\044\130
\122\141\155\160\040\107\154\157\142\141\154\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\060\036\027\015\060\064\061\061\060\061\061\067\061
\064\060\064\132\027\015\063\065\060\061\060\061\060\065\063\067
\061\071\132\060\201\202\061\013\060\011\006\003\125\004\006\023
\002\125\123\061\036\060\034\006\003\125\004\013\023\025\167\167
\167\056\170\162\141\155\160\163\145\143\165\162\151\164\171\056
\143\157\155\061\044\060\042\006\003\125\004\012\023\033\130\122
\141\155\160\040\123\145\143\165\162\151\164\171\040\123\145\162
\166\151\143\145\163\040\111\156\143\061\055\060\053\006\003\125
\004\003\023\044\130\122\141\155\160\040\107\154\157\142\141\154
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\060\202\001\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000
\060\202\001\012\002\202\001\001\000\230\044\036\275\025\264\272
\337\307\214\245\047\266\070\013\151\363\266\116\250\054\056\041
\035\134\104\337\041\135\176\043\164\376\136\176\264\112\267\246
\255\037\256\340\006\026\342\233\133\331\147\164\153\135\200\217
\051\235\206\033\331\234\015\230\155\166\020\050\130\344\145\260
\177\112\230\171\237\340\303\061\176\200\053\265\214\300\100\073
\021\206\320\313\242\206\066\140\244\325\060\202\155\331\156\320
\017\022\004\063\227\137\117\141\132\360\344\371\221\253\347\035
\073\274\350\317\364\153\055\064\174\342\110\141\034\216\363\141
\104\314\157\240\112\251\224\260\115\332\347\251\064\172\162\070
\250\101\314\074\224\021\175\353\310\246\214\267\206\313\312\063
\073\331\075\067\213\373\172\076\206\054\347\163\327\012\127\254
\144\233\031\353\364\017\004\010\212\254\003\027\031\144\364\132
\045\042\215\064\054\262\366\150\035\022\155\323\212\036\024\332
\304\217\246\342\043\205\325\172\015\275\152\340\351\354\354\027
\273\102\033\147\252\045\355\105\203\041\374\301\311\174\325\142
\076\372\362\305\055\323\375\324\145\002\003\001\000\001\243\201
\237\060\201\234\060\023\006\011\053\006\001\004\001\202\067\024
\002\004\006\036\004\000\103\000\101\060\013\006\003\125\035\017
\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026
\004\024\306\117\242\075\006\143\204\011\234\316\142\344\004\254
\215\134\265\351\266\033\060\066\006\003\125\035\037\004\057\060

\055\060\053\240\051\240\047\206\045\150\164\164\160\072\057\057
\143\162\154\056\170\162\141\155\160\163\145\143\165\162\151\164
\171\056\143\157\155\057\130\107\103\101\056\143\162\154\060\020
\006\011\053\006\001\004\001\202\067\025\001\004\003\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003
\202\001\001\000\221\025\071\003\001\033\147\373\112\034\371\012
\140\133\241\332\115\227\142\371\044\123\047\327\202\144\116\220
\056\303\111\033\053\232\334\374\250\170\147\065\361\035\360\021
\275\267\110\343\020\366\015\337\077\322\311\266\252\125\244\110
\272\002\333\336\131\056\025\133\073\235\026\175\107\327\067\352
\137\115\166\022\066\273\037\327\241\201\004\106\040\243\054\155
\251\236\001\176\077\051\316\000\223\337\375\311\222\163\211\211
\144\236\347\053\344\034\221\054\322\271\316\175\316\157\061\231
\323\346\276\322\036\220\360\011\024\171\134\043\253\115\322\332
\041\037\115\231\171\235\341\317\047\237\020\233\034\210\015\260
\212\144\101\061\270\016\154\220\044\244\233\134\161\217\272\273
\176\034\033\333\152\200\017\041\274\351\333\246\267\100\364\262
\213\251\261\344\357\232\032\320\075\151\231\356\250\050\243\341
\074\263\360\262\021\234\317\174\100\346\335\347\103\175\242\330
\072\265\251\215\362\064\231\304\324\020\341\006\375\011\204\020
\073\356\304\114\364\354\047\174\102\302\164\174\202\212\011\311
\264\003\045\274
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "XRamp Global CA Root"
Issuer: CN=XRamp Global Certification Authority,O=XRamp Security Services
Inc,OU=www.xrampsecurity.com,C=US
Serial Number:50:94:6c:ec:18:ea:d5:9c:4d:d5:97:ef:75:8f:a0:ad
Subject: CN=XRamp Global Certification Authority,O=XRamp Security Services
Inc,OU=www.xrampsecurity.com,C=US
Not Valid Before: Mon Nov 01 17:14:04 2004
Not Valid After : Mon Jan 01 05:37:19 2035
Fingerprint (SHA-256):
CE:CD:DC:90:50:99:D8:DA:DF:C5:B1:D2:09:B7:37:CB:E2:C1:8C:FB:2C:10:C0:FF:0B:CF:0D:32:86:FC:1A:A2
Fingerprint (SHA1): B8:01:86:D1:EB:9C:86:A5:41:04:CF:30:54:F3:4C:52:B7:E5:58:C6
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "XRamp Global CA Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\270\001\206\321\353\234\206\245\101\004\317\060\124\363\114\122
\267\345\130\306
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL

\241\013\104\263\312\020\330\000\156\235\017\330\017\222\012\321
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\036\060\034\006\003\125\004\013\023\025\167\167\167\056\170
\162\141\155\160\163\145\143\165\162\151\164\171\056\143\157\155
\061\044\060\042\006\003\125\004\012\023\033\130\122\141\155\160
\040\123\145\143\165\162\151\164\171\040\123\145\162\166\151\143
\145\163\040\111\156\143\061\055\060\053\006\003\125\004\003\023
\044\130\122\141\155\160\040\107\154\157\142\141\154\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\120\224\154\354\030\352\325\234\115\325\227\357\165\217
\240\255
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Go Daddy Class 2 CA"
#
Issuer: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.",C=US
Serial Number: 0 (0x0)
Subject: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.",C=US
Not Valid Before: Tue Jun 29 17:06:20 2004
Not Valid After : Thu Jun 29 17:06:20 2034
Fingerprint (SHA-256):
C3:84:6B:F2:4B:9E:93:CA:64:27:4C:0E:C6:7C:1E:CC:5E:02:4F:FC:AC:D2:D7:40:19:35:0E:81:FE:54:6A:E4
Fingerprint (SHA1): 27:96:BA:E6:3F:18:01:E2:77:26:1B:A0:D7:77:70:02:8F:20:EE:E4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Class 2 CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\041\060\037\006\003\125\004\012\023\030\124\150\145\040\107\157
\040\104\141\144\144\171\040\107\162\157\165\160\054\040\111\156
\143\056\061\061\060\057\006\003\125\004\013\023\050\107\157\040
\104\141\144\144\171\040\103\154\141\163\163\040\062\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\041\060\037\006\003\125\004\012\023\030\124\150\145\040\107\157
\040\104\141\144\144\171\040\107\162\157\165\160\054\040\111\156
\143\056\061\061\060\057\006\003\125\004\013\023\050\107\157\040
\104\141\144\144\171\040\103\154\141\163\163\040\062\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\000\060\202\002\350\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061\041
\060\037\006\003\125\004\012\023\030\124\150\145\040\107\157\040
\104\141\144\144\171\040\107\162\157\165\160\054\040\111\156\143
\056\061\061\060\057\006\003\125\004\013\023\050\107\157\040\104
\141\144\144\171\040\103\154\141\163\163\040\062\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171\060\036\027\015\060\064\060\066\062\071\061\067
\060\066\062\060\132\027\015\063\064\060\066\062\071\061\067\060
\066\062\060\132\060\143\061\013\060\011\006\003\125\004\006\023
\002\125\123\061\041\060\037\006\003\125\004\012\023\030\124\150
\145\040\107\157\040\104\141\144\144\171\040\107\162\157\165\160
\054\040\111\156\143\056\061\061\060\057\006\003\125\004\013\023
\050\107\157\040\104\141\144\144\171\040\103\154\141\163\163\040
\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\101\165\164\150\157\162\151\164\171\060\202\001\040\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\015
\000\060\202\001\010\002\202\001\001\000\336\235\327\352\127\030
\111\241\133\353\327\137\110\206\352\276\335\377\344\357\147\034
\364\145\150\263\127\161\240\136\167\273\355\233\111\351\160\200
\075\126\030\143\010\157\332\362\314\320\077\177\002\124\042\124
\020\330\262\201\324\300\165\075\113\177\307\167\303\076\170\253
\032\003\265\040\153\057\152\053\261\305\210\176\304\273\036\260
\301\330\105\047\157\252\067\130\367\207\046\327\330\055\366\251
\027\267\037\162\066\116\246\027\077\145\230\222\333\052\156\135
\242\376\210\340\013\336\177\345\215\025\341\353\313\072\325\342
\022\242\023\055\330\216\257\137\022\075\240\010\005\010\266\134
\245\145\070\004\105\231\036\243\140\140\164\305\101\245\162\142
\033\142\305\037\157\137\032\102\276\002\121\145\250\256\043\030
\152\374\170\003\251\115\177\200\303\372\253\132\374\241\100\244
\312\031\026\376\262\310\357\136\163\015\356\167\275\232\366\171
\230\274\261\007\147\242\025\015\335\240\130\306\104\173\012\076
\142\050\137\272\101\007\123\130\317\021\176\070\164\305\370\377

\265\151\220\217\204\164\352\227\033\257\002\001\003\243\201\300
\060\201\275\060\035\006\003\125\035\016\004\026\004\024\322\304
\260\322\221\324\114\021\161\263\141\313\075\241\376\335\250\152
\324\343\060\201\215\006\003\125\035\043\004\201\205\060\201\202
\200\024\322\304\260\322\221\324\114\021\161\263\141\313\075\241
\376\335\250\152\324\343\241\147\244\145\060\143\061\013\060\011
\006\003\125\004\006\023\002\125\123\061\041\060\037\006\003\125
\004\012\023\030\124\150\145\040\107\157\040\104\141\144\144\171
\040\107\162\157\165\160\054\040\111\156\143\056\061\061\060\057
\006\003\125\004\013\023\050\107\157\040\104\141\144\144\171\040
\103\154\141\163\163\040\062\040\103\145\162\164\151\146\151\143
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\202
\001\000\060\014\006\003\125\035\023\004\005\060\003\001\001\377
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003
\202\001\001\000\062\113\363\262\312\076\221\374\022\306\241\007
\214\216\167\240\063\006\024\134\220\036\030\367\010\246\075\012
\031\371\207\200\021\156\151\344\226\027\060\377\064\221\143\162
\070\356\314\034\001\243\035\224\050\244\061\366\172\304\124\327
\366\345\061\130\003\242\314\316\142\333\224\105\163\265\277\105
\311\044\265\325\202\002\255\043\171\151\215\270\266\115\316\317
\114\312\063\043\350\034\210\252\235\213\101\156\026\311\040\345
\211\236\315\073\332\160\367\176\231\046\040\024\124\045\253\156
\163\205\346\233\041\235\012\154\202\016\250\370\302\014\372\020
\036\154\226\357\207\015\304\017\141\213\255\356\203\053\225\370
\216\222\204\162\071\353\040\352\203\355\203\315\227\156\010\274
\353\116\046\266\163\053\344\323\366\114\376\046\161\342\141\021
\164\112\377\127\032\207\017\165\110\056\317\121\151\027\240\002
\022\141\225\325\321\100\262\020\114\356\304\254\020\103\246\245
\236\012\325\225\142\232\015\317\210\202\305\062\014\344\053\237
\105\346\015\237\050\234\261\271\052\132\127\255\067\017\257\035
\177\333\275\237
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Go Daddy Class 2 CA"
Issuer: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.",C=US
Serial Number: 0 (0x0)
Subject: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.",C=US
Not Valid Before: Tue Jun 29 17:06:20 2004
Not Valid After : Thu Jun 29 17:06:20 2034
Fingerprint (SHA-256):
C3:84:6B:F2:4B:9E:93:CA:64:27:4C:0E:C6:7C:1E:CC:5E:02:4F:FC:AC:D2:D7:40:19:35:0E:81:FE:54:6A:E4
Fingerprint (SHA1): 27:96:BA:E6:3F:18:01:E2:77:26:1B:A0:D7:77:70:02:8F:20:EE:E4
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Class 2 CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\047\226\272\346\077\030\001\342\167\046\033\240\327\167\160\002
\217\040\356\344
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\221\336\006\045\253\332\375\062\027\014\273\045\027\052\204\147
END
CKA_ISSUER MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\041\060\037\006\003\125\004\012\023\030\124\150\145\040\107\157
\040\104\141\144\144\171\040\107\162\157\165\160\054\040\111\156
\143\056\061\061\060\057\006\003\125\004\013\023\050\107\157\040
\104\141\144\144\171\040\103\154\141\163\163\040\062\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Starfield Class 2 CA"
#
Issuer: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
Serial Number: 0 (0x0)
Subject: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
Not Valid Before: Tue Jun 29 17:39:16 2004
Not Valid After : Thu Jun 29 17:39:16 2034
Fingerprint (SHA-256):
14:65:FA:20:53:97:B8:76:FA:A6:F0:A9:95:8E:55:90:E4:0F:CC:7F:AA:4F:B7:C2:C8:67:75:21:FB:5F:B6:58
Fingerprint (SHA1): AD:7E:1C:28:B0:64:EF:8F:60:03:40:20:14:C3:D0:E3:37:0E:B5:8A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Class 2 CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\150\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\045\060\043\006\003\125\004\012\023\034\123\164\141\162\146\151
\145\154\144\040\124\145\143\150\156\157\154\157\147\151\145\163
\054\040\111\156\143\056\061\062\060\060\006\003\125\004\013\023

\051\123\164\141\162\146\151\145\154\144\040\103\154\141\163\163
\040\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\150\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\045\060\043\006\003\125\004\012\023\034\123\164\141\162\146\151
\145\154\144\040\124\145\143\150\156\157\154\157\147\151\145\163
\054\040\111\156\143\056\061\062\060\060\006\003\125\004\013\023
\051\123\164\141\162\146\151\145\154\144\040\103\154\141\163\163
\040\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\017\060\202\002\367\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\150\061\013\060\011\006\003\125\004\006\023\002\125\123\061\045
\060\043\006\003\125\004\012\023\034\123\164\141\162\146\151\145
\154\144\040\124\145\143\150\156\157\154\157\147\151\145\163\054
\040\111\156\143\056\061\062\060\060\006\003\125\004\013\023\051
\123\164\141\162\146\151\145\154\144\040\103\154\141\163\163\040
\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\101\165\164\150\157\162\151\164\171\060\036\027\015\060\064\060
\066\062\071\061\067\063\071\061\066\132\027\015\063\064\060\066
\062\071\061\067\063\071\061\066\132\060\150\061\013\060\011\006
\003\125\004\006\023\002\125\123\061\045\060\043\006\003\125\004
\012\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143
\150\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061
\062\060\060\006\003\125\004\013\023\051\123\164\141\162\146\151
\145\154\144\040\103\154\141\163\163\040\062\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\060\202\001\040\060\015\006\011\052\206\110\206\367
\015\001\001\001\005\000\003\202\001\015\000\060\202\001\010\002
\202\001\001\000\267\062\310\376\351\161\246\004\205\255\014\021
\144\337\316\115\357\310\003\030\207\077\241\253\373\074\246\237
\360\303\241\332\324\330\156\053\123\220\373\044\244\076\204\360
\236\350\137\354\345\047\104\365\050\246\077\173\336\340\052\360
\310\257\123\057\236\312\005\001\223\036\217\146\034\071\247\115
\372\132\266\163\004\045\146\353\167\177\347\131\306\112\231\045
\024\124\353\046\307\363\177\031\325\060\160\217\257\260\106\052
\377\255\353\051\355\327\237\252\004\207\243\324\371\211\245\064
\137\333\103\221\202\066\331\146\074\261\270\271\202\375\234\072
\076\020\310\073\357\006\145\146\172\233\031\030\075\377\161\121
\074\060\056\137\276\075\167\163\262\135\006\154\303\043\126\232

\053\205\046\222\034\247\002\263\344\077\015\257\010\171\202\270
\066\075\352\234\323\065\263\274\151\312\365\314\235\350\375\144
\215\027\200\063\156\136\112\135\231\311\036\207\264\235\032\300
\325\156\023\065\043\136\337\233\137\075\357\326\367\166\302\352
\076\273\170\015\034\102\147\153\004\330\370\326\332\157\213\362
\104\240\001\253\002\001\003\243\201\305\060\201\302\060\035\006
\003\125\035\016\004\026\004\024\277\137\267\321\316\335\037\206
\364\133\125\254\334\327\020\302\016\251\210\347\060\201\222\006
\003\125\035\043\004\201\212\060\201\207\200\024\277\137\267\321
\316\335\037\206\364\133\125\254\334\327\020\302\016\251\210\347
\241\154\244\152\060\150\061\013\060\011\006\003\125\004\006\023
\002\125\123\061\045\060\043\006\003\125\004\012\023\034\123\164
\141\162\146\151\145\154\144\040\124\145\143\150\156\157\154\157
\147\151\145\163\054\040\111\156\143\056\061\062\060\060\006\003
\125\004\013\023\051\123\164\141\162\146\151\145\154\144\040\103
\154\141\163\163\040\062\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\202\001
\000\060\014\006\003\125\035\023\004\005\060\003\001\001\377\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202
\001\001\000\005\235\077\210\235\321\311\032\125\241\254\151\363
\363\131\332\233\001\207\032\117\127\251\241\171\011\052\333\367
\057\262\036\314\307\136\152\330\203\207\241\227\357\111\065\076
\167\006\101\130\142\277\216\130\270\012\147\077\354\263\335\041
\146\037\311\124\372\162\314\075\114\100\330\201\257\167\236\203
\172\273\242\307\365\064\027\216\331\021\100\364\374\054\052\115
\025\177\247\142\135\056\045\323\000\013\040\032\035\150\371\027
\270\364\275\213\355\050\131\335\115\026\213\027\203\310\262\145
\307\055\172\245\252\274\123\206\155\335\127\244\312\370\040\101
\013\150\360\364\373\164\276\126\135\172\171\365\371\035\205\343
\055\225\276\365\161\220\103\314\215\037\232\000\012\207\051\351
\125\042\130\000\043\352\343\022\103\051\133\107\010\335\214\101
\152\145\006\250\345\041\252\101\264\225\041\225\271\175\321\064
\253\023\326\255\274\334\342\075\071\315\275\076\165\160\241\030
\131\003\311\042\264\217\234\325\136\052\327\245\266\324\012\155
\370\267\100\021\106\232\037\171\016\142\277\017\227\354\340\057
\037\027\224
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Starfield Class 2 CA"
Issuer: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
Serial Number: 0 (0x0)
Subject: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
Not Valid Before: Tue Jun 29 17:39:16 2004
Not Valid After : Thu Jun 29 17:39:16 2034
Fingerprint (SHA-256):

14:65:FA:20:53:97:B8:76:FA:A6:F0:A9:95:8E:55:90:E4:0F:CC:7F:AA:4F:B7:C2:C8:67:75:21:FB:5F:B6:58
Fingerprint (SHA1): AD:7E:1C:28:B0:64:EF:8F:60:03:40:20:14:C3:D0:E3:37:0E:B5:8A
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Class 2 CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\255\176\034\050\260\144\357\217\140\003\100\040\024\303\320\343
\067\016\265\212
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\062\112\113\273\310\143\151\233\276\164\232\306\335\035\106\044
END
CKA_ISSUER MULTILINE_OCTAL
\060\150\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\045\060\043\006\003\125\004\012\023\034\123\164\141\162\146\151
\145\154\144\040\124\145\143\150\156\157\154\157\147\151\145\163
\054\040\111\156\143\056\061\062\060\060\006\003\125\004\013\023
\051\123\164\141\162\146\151\145\154\144\040\103\154\141\163\163
\040\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "DigiCert Assured ID Root CA"
#
Issuer: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
Serial Number:0c:e7:e0:e5:17:d8:46:fe:8f:e5:60:fc:1b:f0:30:39
Subject: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
Not Valid Before: Fri Nov 10 00:00:00 2006
Not Valid After : Mon Nov 10 00:00:00 2031
Fingerprint (SHA-256):
3E:90:99:B5:01:5E:8F:48:6C:00:BC:EA:9D:11:1E:E7:21:FA:BA:35:5A:89:BC:F1:DF:69:56:1E:3D:C6:32:5C
Fingerprint (SHA1): 05:63:B8:63:0D:62:D7:5A:BB:C8:AB:1E:4B:DF:B5:A8:99:B2:4D:43
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\014\347\340\345\027\330\106\376\217\345\140\374\033\360
\060\071
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\267\060\202\002\237\240\003\002\001\002\002\020\014
\347\340\345\027\330\106\376\217\345\140\374\033\360\060\071\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\145
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060
\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164
\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167
\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061
\044\060\042\006\003\125\004\003\023\033\104\151\147\151\103\145
\162\164\040\101\163\163\165\162\145\144\040\111\104\040\122\157
\157\164\040\103\101\060\036\027\015\060\066\061\061\061\060\060
\060\060\060\060\060\132\027\015\063\061\061\061\061\060\060\060
\060\060\060\060\132\060\145\061\013\060\011\006\003\125\004\006
\023\002\125\123\061\025\060\023\006\003\125\004\012\023\014\104
\151\147\151\103\145\162\164\040\111\156\143\061\031\060\027\006
\003\125\004\013\023\020\167\167\167\056\144\151\147\151\143\145
\162\164\056\143\157\155\061\044\060\042\006\003\125\004\003\023
\033\104\151\147\151\103\145\162\164\040\101\163\163\165\162\145
\144\040\111\104\040\122\157\157\164\040\103\101\060\202\001\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\001\017\000\060\202\001\012\002\202\001\001\000\255\016\025
\316\344\103\200\134\261\207\363\267\140\371\161\022\245\256\334
\046\224\210\252\364\316\365\040\071\050\130\140\014\370\200\332
\251\025\225\062\141\074\265\261\050\204\212\212\334\237\012\014
\203\027\172\217\220\254\212\347\171\123\134\061\204\052\366\017

\230\062\066\166\314\336\335\074\250\242\357\152\373\041\362\122
\141\337\237\040\327\037\342\261\331\376\030\144\322\022\133\137
\371\130\030\065\274\107\315\241\066\371\153\177\324\260\070\076
\301\033\303\214\063\331\330\057\030\376\050\017\263\247\203\326
\303\156\104\300\141\065\226\026\376\131\234\213\166\155\327\361
\242\113\015\053\377\013\162\332\236\140\320\216\220\065\306\170
\125\207\040\241\317\345\155\012\310\111\174\061\230\063\154\042
\351\207\320\062\132\242\272\023\202\021\355\071\027\235\231\072
\162\241\346\372\244\331\325\027\061\165\256\205\175\042\256\077
\001\106\206\366\050\171\310\261\332\344\127\027\304\176\034\016
\260\264\222\246\126\263\275\262\227\355\252\247\360\267\305\250
\077\225\026\320\377\241\226\353\010\137\030\167\117\002\003\001
\000\001\243\143\060\141\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026
\004\024\105\353\242\257\364\222\313\202\061\055\121\213\247\247
\041\235\363\155\310\017\060\037\006\003\125\035\043\004\030\060
\026\200\024\105\353\242\257\364\222\313\202\061\055\121\213\247
\247\041\235\363\155\310\017\060\015\006\011\052\206\110\206\367
\015\001\001\005\005\000\003\202\001\001\000\242\016\274\337\342
\355\360\343\162\163\172\144\224\277\367\162\146\330\062\344\102
\165\142\256\207\353\362\325\331\336\126\263\237\314\316\024\050
\271\015\227\140\134\022\114\130\344\323\075\203\111\105\130\227
\065\151\032\250\107\352\126\306\171\253\022\330\147\201\204\337
\177\011\074\224\346\270\046\054\040\275\075\263\050\211\367\137
\377\042\342\227\204\037\351\145\357\207\340\337\301\147\111\263
\135\353\262\011\052\353\046\355\170\276\175\077\053\363\267\046
\065\155\137\211\001\266\111\133\237\001\005\233\253\075\045\301
\314\266\177\302\361\157\206\306\372\144\150\353\201\055\224\353
\102\267\372\214\036\335\142\361\276\120\147\267\154\275\363\361
\037\153\014\066\007\026\177\067\174\251\133\155\172\361\022\106
\140\203\327\047\004\276\113\316\227\276\303\147\052\150\021\337
\200\347\014\063\146\277\023\015\024\156\363\177\037\143\020\036
\372\215\033\045\155\154\217\245\267\141\001\261\322\243\046\241
\020\161\235\255\342\303\371\303\231\121\267\053\007\010\316\056
\346\120\262\247\372\012\105\057\242\360\362
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "DigiCert Assured ID Root CA"
Issuer: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
Serial Number:0c:e7:e0:e5:17:d8:46:fe:8f:e5:60:fc:1b:f0:30:39
Subject: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
Not Valid Before: Fri Nov 10 00:00:00 2006
Not Valid After : Mon Nov 10 00:00:00 2031
Fingerprint (SHA-256):

3E:90:99:B5:01:5E:8F:48:6C:00:BC:EA:9D:11:1E:E7:21:FA:BA:35:5A:89:BC:F1:DF:69:56:1E:3D:C6:32:5C
Fingerprint (SHA1): 05:63:B8:63:0D:62:D7:5A:BB:C8:AB:1E:4B:DF:B5:A8:99:B2:4D:43
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\005\143\270\143\015\142\327\132\273\310\253\036\113\337\265\250
\231\262\115\103
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\207\316\013\173\052\016\111\000\341\130\161\233\067\250\223\162
END
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\014\347\340\345\027\330\106\376\217\345\140\374\033\360
\060\071
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "DigiCert Global Root CA"
#
Issuer: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
Serial Number:08:3b:e0:56:90:42:46:b1:a1:75:6a:c9:59:91:c7:4a
Subject: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
Not Valid Before: Fri Nov 10 00:00:00 2006
Not Valid After : Mon Nov 10 00:00:00 2031
Fingerprint (SHA-256):
43:48:A0:E9:44:4C:78:CB:26:5E:05:8D:5E:89:44:B4:D8:4F:96:62:BD:26:DB:25:7F:89:34:A4:43:C7:01:61
Fingerprint (SHA1): A8:98:5D:3A:65:E5:E5:C4:B2:D7:D6:6D:40:C6:DD:2F:B1:9C:54:36
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\010\073\340\126\220\102\106\261\241\165\152\311\131\221
\307\112
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\257\060\202\002\227\240\003\002\001\002\002\020\010
\073\340\126\220\102\106\261\241\165\152\311\131\221\307\112\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\141
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060
\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164
\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167
\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061
\040\060\036\006\003\125\004\003\023\027\104\151\147\151\103\145
\162\164\040\107\154\157\142\141\154\040\122\157\157\164\040\103
\101\060\036\027\015\060\066\061\061\061\060\060\060\060\060\060
\060\132\027\015\063\061\061\061\061\060\060\060\060\060\060\060
\132\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103
\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013
\023\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143
\157\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147
\151\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157
\164\040\103\101\060\202\001\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012
\002\202\001\001\000\342\073\341\021\162\336\250\244\323\243\127
\252\120\242\217\013\167\220\311\242\245\356\022\316\226\133\001
\011\040\314\001\223\247\116\060\267\123\367\103\304\151\000\127
\235\342\215\042\335\207\006\100\000\201\011\316\316\033\203\277

\337\315\073\161\106\342\326\146\307\005\263\166\047\026\217\173
\236\036\225\175\356\267\110\243\010\332\326\257\172\014\071\006
\145\177\112\135\037\274\027\370\253\276\356\050\327\164\177\172
\170\231\131\205\150\156\134\043\062\113\277\116\300\350\132\155
\343\160\277\167\020\277\374\001\366\205\331\250\104\020\130\062
\251\165\030\325\321\242\276\107\342\047\152\364\232\063\370\111
\010\140\213\324\137\264\072\204\277\241\252\112\114\175\076\317
\117\137\154\166\136\240\113\067\221\236\334\042\346\155\316\024
\032\216\152\313\376\315\263\024\144\027\307\133\051\236\062\277
\362\356\372\323\013\102\324\253\267\101\062\332\014\324\357\370
\201\325\273\215\130\077\265\033\350\111\050\242\160\332\061\004
\335\367\262\026\362\114\012\116\007\250\355\112\075\136\265\177
\243\220\303\257\047\002\003\001\000\001\243\143\060\141\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060\017
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060
\035\006\003\125\035\016\004\026\004\024\003\336\120\065\126\321
\114\273\146\360\243\342\033\033\303\227\262\075\321\125\060\037
\006\003\125\035\043\004\030\060\026\200\024\003\336\120\065\126
\321\114\273\146\360\243\342\033\033\303\227\262\075\321\125\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202
\001\001\000\313\234\067\252\110\023\022\012\372\335\104\234\117
\122\260\364\337\256\004\365\171\171\010\243\044\030\374\113\053
\204\300\055\271\325\307\376\364\301\037\130\313\270\155\234\172
\164\347\230\051\253\021\265\343\160\240\241\315\114\210\231\223
\214\221\160\342\253\017\034\276\223\251\377\143\325\344\007\140
\323\243\277\235\133\011\361\325\216\343\123\364\216\143\372\077
\247\333\264\146\337\142\146\326\321\156\101\215\362\055\265\352
\167\112\237\235\130\342\053\131\300\100\043\355\055\050\202\105
\076\171\124\222\046\230\340\200\110\250\067\357\360\326\171\140
\026\336\254\350\016\315\156\254\104\027\070\057\111\332\341\105
\076\052\271\066\123\317\072\120\006\367\056\350\304\127\111\154
\141\041\030\325\004\255\170\074\054\072\200\153\247\353\257\025
\024\351\330\211\301\271\070\154\342\221\154\212\377\144\271\167
\045\127\060\300\033\044\243\341\334\351\337\107\174\265\264\044
\010\005\060\354\055\275\013\277\105\277\120\271\251\363\353\230
\001\022\255\310\210\306\230\064\137\215\012\074\306\351\325\225
\225\155\336
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "DigiCert Global Root CA"
Issuer: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
Serial Number:08:3b:e0:56:90:42:46:b1:a1:75:6a:c9:59:91:c7:4a
Subject: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
Not Valid Before: Fri Nov 10 00:00:00 2006
Not Valid After : Mon Nov 10 00:00:00 2031

```
# Fingerprint (SHA-256):
43:48:A0:E9:44:4C:78:CB:26:5E:05:8D:5E:89:44:B4:D8:4F:96:62:BD:26:DB:25:7F:89:34:A4:43:C7:01:61
# Fingerprint (SHA1): A8:98:5D:3A:65:E5:E5:C4:B2:D7:D6:6D:40:C6:DD:2F:B1:9C:54:36
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\250\230\135\072\145\345\345\304\262\327\326\155\100\306\335\057
\261\234\124\066
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\171\344\251\204\015\175\072\226\327\300\117\342\103\114\211\056
END
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\010\073\340\126\220\102\106\261\241\165\152\311\131\221
\307\112
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "DigiCert High Assurance EV Root CA"
#
# Issuer: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:02:ac:5c:26:6a:0b:40:9b:8f:0b:79:f2:ae:46:25:77
# Subject: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After : Mon Nov 10 00:00:00 2031
# Fingerprint (SHA-256):
74:31:E5:F4:C3:C1:CE:46:90:77:4F:0B:61:E0:54:40:88:3B:A9:A0:1E:D0:0B:A6:AB:D7:80:6E:D3:B1:18:CF
# Fingerprint (SHA1): 5F:B7:EE:06:33:E2:59:DB:AD:0C:4C:9A:E6:D3:8F:1A:61:C7:DC:25
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

CKA_LABEL UTF8 "DigiCert High Assurance EV Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\053\060\051\006\003\125\004\003\023\042\104\151\147\151
\103\145\162\164\040\110\151\147\150\040\101\163\163\165\162\141
\156\143\145\040\105\126\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\053\060\051\006\003\125\004\003\023\042\104\151\147\151
\103\145\162\164\040\110\151\147\150\040\101\163\163\165\162\141
\156\143\145\040\105\126\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\002\254\134\046\152\013\100\233\217\013\171\362\256\106
\045\167
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\305\060\202\002\255\240\003\002\001\002\002\020\002
\254\134\046\152\013\100\233\217\013\171\362\256\106\045\167\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\154
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060
\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164
\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167
\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061
\053\060\051\006\003\125\004\003\023\042\104\151\147\151\103\145
\162\164\040\110\151\147\150\040\101\163\163\165\162\141\156\143
\145\040\105\126\040\122\157\157\164\040\103\101\060\036\027\015
\060\066\061\061\061\060\060\060\060\060\060\060\132\027\015\063
\061\061\061\061\060\060\060\060\060\060\060\132\060\154\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\025\060\023\006
\003\125\004\012\023\014\104\151\147\151\103\145\162\164\040\111
\156\143\061\031\060\027\006\003\125\004\013\023\020\167\167\167
\056\144\151\147\151\143\145\162\164\056\143\157\155\061\053\060
\051\006\003\125\004\003\023\042\104\151\147\151\103\145\162\164
\040\110\151\147\150\040\101\163\163\165\162\141\156\143\145\040
\105\126\040\122\157\157\164\040\103\101\060\202\001\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001
\017\000\060\202\001\012\002\202\001\001\000\306\314\345\163\346
\373\324\273\345\055\055\062\246\337\345\201\077\311\315\045\111

\266\161\052\303\325\224\064\147\242\012\034\260\137\151\246\100
\261\304\267\262\217\320\230\244\251\101\131\072\323\334\224\326
\074\333\164\070\244\112\314\115\045\202\367\112\245\123\022\070
\356\363\111\155\161\221\176\143\266\253\246\137\303\244\204\370
\117\142\121\276\370\305\354\333\070\222\343\006\345\010\221\014
\304\050\101\125\373\313\132\211\025\176\161\350\065\277\115\162
\011\075\276\072\070\120\133\167\061\033\215\263\307\044\105\232
\247\254\155\000\024\132\004\267\272\023\353\121\012\230\101\101
\042\116\145\141\207\201\101\120\246\171\134\211\336\031\112\127
\325\056\346\135\034\123\054\176\230\315\032\006\026\244\150\163
\320\064\004\023\134\241\161\323\132\174\125\333\136\144\341\067
\207\060\126\004\345\021\264\051\200\022\361\171\071\210\242\002
\021\174\047\146\267\210\267\170\362\312\012\250\070\253\012\144
\302\277\146\135\225\204\301\241\045\036\207\135\032\120\013\040
\022\314\101\273\156\013\121\070\270\113\313\002\003\001\000\001
\243\143\060\141\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\206\060\017\006\003\125\035\023\001\001\377\004\005
\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024
\261\076\303\151\003\370\277\107\001\324\230\046\032\010\002\357
\143\144\053\303\060\037\006\003\125\035\043\004\030\060\026\200
\024\261\076\303\151\003\370\277\107\001\324\230\046\032\010\002
\357\143\144\053\303\060\015\006\011\052\206\110\206\367\015\001
\001\005\005\000\003\202\001\001\000\034\032\006\227\334\327\234
\237\074\210\146\006\010\127\041\333\041\107\370\052\147\252\277
\030\062\166\100\020\127\301\212\363\172\331\021\145\216\065\372
\236\374\105\265\236\331\114\061\113\270\221\350\103\054\216\263
\170\316\333\343\123\171\161\326\345\041\224\001\332\125\207\232
\044\144\366\212\146\314\336\234\067\315\250\064\261\151\233\043
\310\236\170\042\053\160\103\343\125\107\061\141\031\357\130\305
\205\057\116\060\366\240\061\026\043\310\347\342\145\026\063\313
\277\032\033\240\075\370\312\136\213\061\213\140\010\211\055\014
\006\134\122\267\304\371\012\230\321\025\137\237\022\276\174\066
\143\070\275\104\244\177\344\046\053\012\304\227\151\015\351\214
\342\300\020\127\270\310\166\022\221\125\362\110\151\330\274\052
\002\133\017\104\324\040\061\333\364\272\160\046\135\220\140\236
\274\113\027\011\057\264\313\036\103\150\311\007\047\301\322\134
\367\352\041\271\150\022\234\074\234\277\236\374\200\134\233\143
\315\354\107\252\045\047\147\240\067\363\000\202\175\124\327\251
\370\351\056\023\243\167\350\037\112
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "DigiCert High Assurance EV Root CA"
Issuer: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
Serial Number:02:ac:5c:26:6a:0b:40:9b:8f:0b:79:f2:ae:46:25:77
Subject: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US

Not Valid Before: Fri Nov 10 00:00:00 2006
Not Valid After : Mon Nov 10 00:00:00 2031
Fingerprint (SHA-256):
74:31:E5:F4:C3:C1:CE:46:90:77:4F:0B:61:E0:54:40:88:3B:A9:A0:1E:D0:0B:A6:AB:D7:80:6E:D3:B1:18:CF
Fingerprint (SHA1): 5F:B7:EE:06:33:E2:59:DB:AD:0C:4C:9A:E6:D3:8F:1A:61:C7:DC:25
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert High Assurance EV Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\137\267\356\006\063\342\131\333\255\014\114\232\346\323\217\032
\141\307\334\045
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\324\164\336\127\134\071\262\323\234\205\203\305\300\145\111\212
END
CKA_ISSUER MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\053\060\051\006\003\125\004\003\023\042\104\151\147\151
\103\145\162\164\040\110\151\147\150\040\101\163\163\165\162\141
\156\143\145\040\105\126\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\002\254\134\046\152\013\100\233\217\013\171\362\256\106
\045\167
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "SwissSign Platinum CA - G2"
#
Issuer: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
Serial Number:4e:b2:00:67:0c:03:5d:4f
Subject: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
Not Valid Before: Wed Oct 25 08:36:00 2006
Not Valid After : Sat Oct 25 08:36:00 2036
Fingerprint (SHA-256):
3B:22:2E:56:67:11:E9:92:30:0D:C0:B1:5A:B9:47:3D:AF:DE:F8:C8:4D:0C:EF:7D:33:17:B4:C1:82:1D:14:36
Fingerprint (SHA1): 56:E0:FA:C0:3B:8F:18:23:55:18:E5:D3:11:CA:E8:C2:43:31:AB:66
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Platinum CA - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\111\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\043\060\041\006\003\125\004\003\023
\032\123\167\151\163\163\123\151\147\156\040\120\154\141\164\151
\156\165\155\040\103\101\040\055\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\111\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\043\060\041\006\003\125\004\003\023
\032\123\167\151\163\163\123\151\147\156\040\120\154\141\164\151
\156\165\155\040\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\116\262\000\147\014\003\135\117
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\301\060\202\003\251\240\003\002\001\002\002\010\116
\262\000\147\014\003\135\117\060\015\006\011\052\206\110\206\367
\015\001\001\005\005\000\060\111\061\013\060\011\006\003\125\004
\006\023\002\103\110\061\025\060\023\006\003\125\004\012\023\014
\123\167\151\163\163\123\151\147\156\040\101\107\061\043\060\041
\006\003\125\004\003\023\032\123\167\151\163\163\123\151\147\156
\040\120\154\141\164\151\156\165\155\040\103\101\040\055\040\107
\062\060\036\027\015\060\066\061\060\062\065\060\070\063\066\060
\060\132\027\015\063\066\061\060\062\065\060\070\063\066\060\060
\132\060\111\061\013\060\011\006\003\125\004\006\023\002\103\110
\061\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163
\123\151\147\156\040\101\107\061\043\060\041\006\003\125\004\003
\023\032\123\167\151\163\163\123\151\147\156\040\120\154\141\164
\151\156\165\155\040\103\101\040\055\040\107\062\060\202\002\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\002\017\000\060\202\002\012\002\202\002\001\000\312\337\242
\002\342\332\370\374\007\026\261\336\140\252\336\226\134\144\037
\307\057\176\317\147\372\104\102\326\166\143\225\256\353\257\162
\040\212\105\107\206\142\170\206\326\040\071\046\364\256\243\375
\043\347\245\234\265\042\041\031\267\067\223\042\300\120\234\202
\173\324\325\004\104\134\313\264\302\237\222\276\044\330\173\147
\042\342\151\137\345\005\170\324\207\331\161\160\063\045\123\264
\207\073\051\220\050\066\232\125\104\060\150\244\203\227\177\015
\036\234\166\377\025\235\140\227\000\215\212\205\003\354\200\276
\352\054\156\020\121\222\314\176\325\243\063\330\326\111\336\130

\052\257\366\026\353\113\173\220\062\227\271\272\235\130\361\370
\127\111\004\036\242\135\006\160\335\161\333\371\335\213\232\033
\214\317\075\243\115\316\313\174\366\273\234\240\372\011\316\043
\142\262\351\015\037\342\162\050\217\237\254\150\040\175\157\073
\250\205\061\011\177\013\307\350\145\351\343\170\016\011\147\060
\213\064\202\373\135\340\314\235\201\155\142\356\010\036\004\054
\116\233\354\376\251\117\137\375\151\170\357\011\037\241\264\277
\372\363\357\220\036\114\005\213\036\352\172\221\172\303\327\345
\373\060\274\154\033\020\130\230\367\032\137\320\051\062\003\023
\106\115\141\152\205\114\122\164\057\006\037\173\021\342\204\227
\306\231\363\155\177\327\147\203\176\023\150\330\161\050\132\330
\316\335\350\020\024\232\376\155\043\207\156\216\132\160\074\325
\215\011\000\247\252\274\260\061\067\155\310\204\024\036\133\275
\105\143\040\153\113\164\214\275\333\072\016\301\317\132\026\217
\245\230\362\166\211\262\023\022\073\013\167\167\254\273\345\074
\051\112\222\162\312\141\032\053\136\114\342\203\164\167\372\065
\110\172\205\115\215\232\123\304\337\170\312\227\221\110\053\105
\053\001\367\034\032\242\355\030\272\012\275\203\372\157\274\215
\127\223\073\324\324\246\316\036\361\240\261\316\253\375\053\050
\232\117\033\327\303\162\333\244\304\277\135\114\365\335\173\226
\151\356\150\200\346\347\230\272\066\267\376\156\355\053\275\040
\370\145\031\332\125\011\176\045\334\376\141\142\162\371\176\030
\002\357\143\264\320\373\257\345\073\143\214\147\217\002\003\001
\000\001\243\201\254\060\201\251\060\016\006\003\125\035\017\001
\001\377\004\004\003\002\001\006\060\017\006\003\125\035\023\001
\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016
\004\026\004\024\120\257\314\007\207\025\107\157\070\305\264\145
\321\336\225\252\351\337\234\314\060\037\006\003\125\035\043\004
\030\060\026\200\024\120\257\314\007\207\025\107\157\070\305\264
\145\321\336\225\252\351\337\234\314\060\106\006\003\125\035\040
\004\077\060\075\060\073\006\011\140\205\164\001\131\001\001\001
\001\060\056\060\054\006\010\053\006\001\005\005\007\002\001\026
\040\150\164\164\160\072\057\057\162\145\160\157\163\151\164\157
\162\171\056\163\167\151\163\163\163\151\147\156\056\143\157\155
\057\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000
\003\202\002\001\000\010\205\246\365\026\014\374\104\032\301\143
\340\371\125\106\010\374\160\034\102\050\226\216\267\305\301\101
\165\116\011\161\171\345\155\226\312\113\245\210\140\320\060\164
\270\312\010\334\264\060\236\100\007\026\153\145\225\167\001\256
\244\267\065\013\201\332\161\025\251\164\027\070\173\130\312\371
\057\373\300\145\166\215\133\001\271\175\336\202\075\144\270\276
\024\164\243\012\124\323\054\225\030\027\065\365\121\153\077\217
\242\226\141\071\170\153\113\345\246\240\370\123\337\121\020\223
\142\347\200\057\342\321\340\274\216\066\106\167\063\354\270\373
\216\232\054\211\115\061\021\017\046\236\004\273\267\004\215\013
\362\271\374\132\235\073\026\267\057\310\230\253\376\212\120\131
\056\243\073\374\051\135\213\301\113\311\342\212\023\035\261\277
\273\102\035\122\335\116\330\024\136\020\306\061\007\357\161\047

\367\033\071\011\334\202\352\213\263\225\206\136\375\365\332\135
\061\246\340\061\266\224\346\104\111\164\305\026\345\367\037\003
\141\050\305\310\313\022\240\102\113\371\153\210\010\215\264\062
\030\363\165\237\304\177\000\117\005\225\234\243\027\002\303\263
\123\233\252\040\071\051\053\146\372\235\257\136\263\222\322\265
\246\341\032\371\055\101\151\201\024\264\264\265\355\211\075\316
\373\251\235\065\102\104\261\034\024\163\201\317\052\001\065\232
\061\325\055\217\155\204\337\200\115\127\343\077\305\204\165\332
\211\306\060\273\353\217\313\042\010\240\256\252\361\003\154\072
\113\115\011\245\016\162\306\126\153\041\102\116\043\045\024\150
\256\166\012\174\014\007\160\144\371\232\057\366\005\071\046\306
\014\217\031\177\103\136\156\364\133\025\057\333\141\135\346\147
\057\077\010\224\371\140\264\230\061\332\164\361\204\223\161\115
\137\373\140\130\321\373\304\301\155\211\242\273\040\037\235\161
\221\313\062\233\023\075\076\175\222\122\065\254\222\224\242\323
\030\302\174\307\352\257\166\005\026\335\147\047\302\176\034\007
\042\041\363\100\012\033\064\007\104\023\302\204\152\216\337\031
\132\277\177\353\035\342\032\070\321\134\257\107\222\153\200\265
\060\245\311\215\330\253\061\201\037\337\302\146\067\323\223\251
\205\206\171\145\322
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "SwissSign Platinum CA - G2"
Issuer: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
Serial Number:4e:b2:00:67:0c:03:5d:4f
Subject: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
Not Valid Before: Wed Oct 25 08:36:00 2006
Not Valid After : Sat Oct 25 08:36:00 2036
Fingerprint (SHA-256):
3B:22:2E:56:67:11:E9:92:30:0D:C0:B1:5A:B9:47:3D:AF:DE:F8:C8:4D:0C:EF:7D:33:17:B4:C1:82:1D:14:36
Fingerprint (SHA1): 56:E0:FA:C0:3B:8F:18:23:55:18:E5:D3:11:CA:E8:C2:43:31:AB:66
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Platinum CA - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\126\340\372\300\073\217\030\043\125\030\345\323\021\312\350\302
\103\061\253\146
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\311\230\047\167\050\036\075\016\025\074\204\000\270\205\003\346
END
CKA_ISSUER MULTILINE_OCTAL
\060\111\061\013\060\011\006\003\125\004\006\023\002\103\110\061

\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\043\060\041\006\003\125\004\003\023
\032\123\167\151\163\163\123\151\147\156\040\120\154\141\164\151
\156\165\155\040\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\116\262\000\147\014\003\135\117
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "SwissSign Gold CA - G2"
#
Issuer: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
Serial Number:00:bb:40:1c:43:f5:5e:4f:b0
Subject: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
Not Valid Before: Wed Oct 25 08:30:35 2006
Not Valid After : Sat Oct 25 08:30:35 2036
Fingerprint (SHA-256):
62:DD:0B:E9:B9:F5:0A:16:3E:A0:F8:E7:5C:05:3B:1E:CA:57:EA:55:C8:68:8F:64:7C:68:81:F2:C8:35:7B:95
Fingerprint (SHA1): D8:C5:38:8A:B7:30:1B:1B:6E:D4:7A:E6:45:25:3A:6F:9F:1A:27:61
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Gold CA - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\037\060\035\006\003\125\004\003\023
\026\123\167\151\163\163\123\151\147\156\040\107\157\154\144\040
\103\101\040\055\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\037\060\035\006\003\125\004\003\023
\026\123\167\151\163\163\123\151\147\156\040\107\157\154\144\040
\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\273\100\034\103\365\136\117\260
END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\272\060\202\003\242\240\003\002\001\002\002\011\000
\273\100\034\103\365\136\117\260\060\015\006\011\052\206\110\206
\367\015\001\001\005\005\000\060\105\061\013\060\011\006\003\125
\004\006\023\002\103\110\061\025\060\023\006\003\125\004\012\023
\014\123\167\151\163\163\123\151\147\156\040\101\107\061\037\060
\035\006\003\125\004\003\023\026\123\167\151\163\163\123\151\147
\156\040\107\157\154\144\040\103\101\040\055\040\107\062\060\036
\027\015\060\066\061\060\062\065\060\070\063\060\063\065\132\027
\015\063\066\061\060\062\065\060\070\063\060\063\065\132\060\105
\061\013\060\011\006\003\125\004\006\023\002\103\110\061\025\060
\023\006\003\125\004\012\023\014\123\167\151\163\163\123\151\147
\156\040\101\107\061\037\060\035\006\003\125\004\003\023\026\123
\167\151\163\163\123\151\147\156\040\107\157\154\144\040\103\101
\040\055\040\107\062\060\202\002\042\060\015\006\011\052\206\110
\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002
\012\002\202\002\001\000\257\344\356\176\213\044\016\022\156\251
\120\055\026\104\073\222\222\134\312\270\135\204\222\102\023\052
\274\145\127\202\100\076\127\044\315\120\213\045\052\267\157\374
\357\242\320\300\037\002\044\112\023\226\217\043\023\346\050\130
\000\243\107\307\006\247\204\043\053\273\275\226\053\177\125\314
\213\301\127\037\016\142\145\017\335\075\126\212\163\332\256\176
\155\272\201\034\176\102\214\040\065\331\103\115\204\372\204\333
\122\054\363\016\047\167\013\153\277\021\057\162\170\237\056\330
\076\346\030\067\132\052\162\371\332\142\220\222\225\312\037\234
\351\263\074\053\313\363\001\023\277\132\317\301\265\012\140\275
\335\265\231\144\123\270\240\226\263\157\342\046\167\221\214\340
\142\020\002\237\064\017\244\325\222\063\121\336\276\215\272\204
\172\140\074\152\333\237\053\354\336\336\001\077\156\115\345\120
\206\313\264\257\355\104\100\305\312\132\214\332\322\053\174\250
\356\276\246\345\012\252\016\245\337\005\122\267\125\307\042\135
\062\152\227\227\143\023\333\311\333\171\066\173\205\072\112\305
\122\211\371\044\347\235\167\251\202\377\125\034\245\161\151\053
\321\002\044\362\263\046\324\153\332\004\125\345\301\012\307\155
\060\067\220\052\344\236\024\063\136\026\027\125\305\133\265\313
\064\211\222\361\235\046\217\241\007\324\306\262\170\120\333\014
\014\013\174\013\214\101\327\271\351\335\214\210\367\243\115\262
\062\314\330\027\332\315\267\316\146\235\324\375\136\377\275\227
\076\051\165\347\176\247\142\130\257\045\064\245\101\307\075\274
\015\120\312\003\003\017\010\132\037\225\163\170\142\277\257\162
\024\151\016\245\345\003\016\170\216\046\050\102\360\007\013\142
\040\020\147\071\106\372\251\003\314\004\070\172\146\357\040\203
\265\214\112\126\216\221\000\374\216\134\202\336\210\240\303\342
\150\156\175\215\357\074\335\145\364\135\254\121\357\044\200\256
\252\126\227\157\371\255\175\332\141\077\230\167\074\245\221\266
\034\214\046\332\145\242\011\155\301\342\124\343\271\312\114\114
\200\217\167\173\140\232\036\337\266\362\110\036\016\272\116\124
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\251\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\006\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\035\006\003\125\035\016\004\026\004\024\133\045\173
\226\244\145\121\176\270\071\363\300\170\146\136\350\072\347\360
\356\060\037\006\003\125\035\043\004\030\060\026\200\024\133\045
\173\226\244\145\121\176\270\071\363\300\170\146\136\350\072\347
\360\356\060\106\006\003\125\035\040\004\077\060\075\060\073\006
\011\140\205\164\001\131\001\002\001\001\060\056\060\054\006\010
\053\006\001\005\005\007\002\001\026\040\150\164\164\160\072\057
\057\162\145\160\157\163\151\164\157\162\171\056\163\167\151\163
\163\163\151\147\156\056\143\157\155\057\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\003\202\002\001\000\047\272
\343\224\174\361\256\300\336\027\346\345\330\325\365\124\260\203
\364\273\315\136\005\173\117\237\165\146\257\074\350\126\176\374
\162\170\070\003\331\053\142\033\000\271\370\351\140\315\314\316
\121\212\307\120\061\156\341\112\176\030\057\151\131\266\075\144
\201\053\343\203\204\346\042\207\216\175\340\356\002\231\141\270
\036\364\270\053\210\022\026\204\302\061\223\070\226\061\246\271
\073\123\077\303\044\223\126\133\151\222\354\305\301\273\070\000
\343\354\027\251\270\334\307\174\001\203\237\062\107\272\122\042
\064\035\062\172\011\126\247\174\045\066\251\075\113\332\300\202
\157\012\273\022\310\207\113\047\021\371\036\055\307\223\077\236
\333\137\046\153\122\331\056\212\361\024\306\104\215\025\251\267
\277\275\336\246\032\356\256\055\373\110\167\027\376\273\354\257
\030\365\052\121\360\071\204\227\225\154\156\033\303\053\304\164
\140\171\045\260\012\047\337\337\136\322\071\317\105\175\102\113
\337\263\054\036\305\306\135\312\125\072\240\234\151\232\217\332
\357\262\260\074\237\207\154\022\053\145\160\025\122\061\032\044
\317\157\061\043\120\037\214\117\217\043\303\164\101\143\034\125
\250\024\335\076\340\121\120\317\361\033\060\126\016\222\260\202
\205\330\203\313\042\144\274\055\270\045\325\124\242\270\006\352
\255\222\244\044\240\301\206\265\112\023\152\107\317\056\013\126
\225\124\313\316\232\333\152\264\246\262\333\101\010\206\047\167
\367\152\240\102\154\013\070\316\327\165\120\062\222\302\337\053
\060\042\110\320\325\101\070\045\135\244\351\135\237\306\224\165
\320\105\375\060\227\103\217\220\253\012\307\206\163\140\112\151
\055\336\245\170\327\006\332\152\236\113\076\167\072\040\023\042
\001\320\277\150\236\143\140\153\065\115\013\155\272\241\075\300
\223\340\177\043\263\125\255\162\045\116\106\371\322\026\357\260
\144\301\001\236\351\312\240\152\230\016\317\330\140\362\057\111
\270\344\102\341\070\065\026\364\310\156\117\367\201\126\350\272
\243\276\043\257\256\375\157\003\340\002\073\060\166\372\033\155
\101\317\001\261\351\270\311\146\364\333\046\363\072\244\164\362
\111\044\133\311\260\320\127\301\372\076\172\341\227\311
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SwissSign Gold CA - G2"
# Issuer: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Serial Number:00:bb:40:1c:43:f5:5e:4f:b0
# Subject: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Not Valid Before: Wed Oct 25 08:30:35 2006
# Not Valid After : Sat Oct 25 08:30:35 2036
# Fingerprint (SHA-256):
62:DD:0B:E9:B9:F5:0A:16:3E:A0:F8:E7:5C:05:3B:1E:CA:57:EA:55:C8:68:8F:64:7C:68:81:F2:C8:35:7B:95
# Fingerprint (SHA1): D8:C5:38:8A:B7:30:1B:1B:6E:D4:7A:E6:45:25:3A:6F:9F:1A:27:61
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Gold CA - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\330\305\070\212\267\060\033\033\156\324\172\346\105\045\072\157
\237\032\047\141
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\044\167\331\250\221\321\073\372\210\055\302\377\370\315\063\223
END
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\037\060\035\006\003\125\004\003\023
\026\123\167\151\163\163\123\151\147\156\040\107\157\154\144\040
\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\273\100\034\103\365\136\117\260
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "SwissSign Silver CA - G2"
#
# Issuer: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Serial Number:4f:1b:d4:2f:54:bb:2f:4b
# Subject: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Not Valid Before: Wed Oct 25 08:32:46 2006
# Not Valid After : Sat Oct 25 08:32:46 2036
# Fingerprint (SHA-256):
BE:6C:4D:A2:BB:B9:BA:59:B6:F3:93:97:68:37:42:46:C3:C0:05:99:3F:A9:8F:02:0D:1D:ED:BE:D4:8A:81:D5
```

Fingerprint (SHA1): 9B:AA:E5:9F:56:EE:21:CB:43:5A:BE:25:93:DF:A7:F0:40:D1:1D:CB
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Silver CA - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\041\060\037\006\003\125\004\003\023
\030\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145
\162\040\103\101\040\055\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\041\060\037\006\003\125\004\003\023
\030\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145
\162\040\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\117\033\324\057\124\273\057\113
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\275\060\202\003\245\240\003\002\001\002\002\010\117
\033\324\057\124\273\057\113\060\015\006\011\052\206\110\206\367
\015\001\001\005\005\000\060\107\061\013\060\011\006\003\125\004
\006\023\002\103\110\061\025\060\023\006\003\125\004\012\023\014
\123\167\151\163\163\123\151\147\156\040\101\107\061\041\060\037
\006\003\125\004\003\023\030\123\167\151\163\163\123\151\147\156
\040\123\151\154\166\145\162\040\103\101\040\055\040\107\062\060
\036\027\015\060\066\061\060\062\065\060\070\063\062\064\066\132
\027\015\063\066\061\060\062\065\060\070\063\062\064\066\132\060
\107\061\013\060\011\006\003\125\004\006\023\002\103\110\061\025
\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123\151
\147\156\040\101\107\061\041\060\037\006\003\125\004\003\023\030
\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145\162
\040\103\101\040\055\040\107\062\060\202\002\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000
\060\202\002\012\002\202\002\001\000\304\361\207\177\323\170\061
\367\070\311\370\303\231\103\274\307\367\274\067\347\116\161\272
\113\217\245\163\035\134\156\230\256\003\127\256\070\067\103\057
\027\075\037\310\316\150\020\301\170\256\031\003\053\020\372\054
\171\203\366\350\271\150\271\125\362\004\104\247\071\371\374\004
\213\036\361\242\115\047\371\141\173\272\267\345\242\023\266\353
\141\076\320\154\321\346\373\372\136\355\035\264\236\240\065\133

\241\222\313\360\111\222\376\205\012\005\076\346\331\013\342\117
\273\334\225\067\374\221\351\062\065\042\321\037\072\116\047\205
\235\260\025\224\062\332\141\015\107\115\140\102\256\222\107\350
\203\132\120\130\351\212\213\271\135\241\334\335\231\112\037\066
\147\273\110\344\203\266\067\353\110\072\257\017\147\217\027\007
\350\004\312\357\152\061\207\324\300\266\371\224\161\173\147\144
\270\266\221\112\102\173\145\056\060\152\014\365\220\356\225\346
\362\315\202\354\331\241\112\354\366\262\113\345\105\205\346\155
\170\223\004\056\234\202\155\066\251\304\061\144\037\206\203\013
\052\364\065\012\170\311\125\317\101\260\107\351\060\237\231\276
\141\250\006\204\271\050\172\137\070\331\033\251\070\260\203\177
\163\301\303\073\110\052\202\017\041\233\270\314\250\065\303\204
\033\203\263\076\276\244\225\151\001\072\211\000\170\004\331\311
\364\231\031\253\126\176\133\213\206\071\025\221\244\020\054\011
\062\200\140\263\223\300\052\266\030\013\235\176\215\111\362\020
\112\177\371\325\106\057\031\222\243\231\247\046\254\273\214\074
\346\016\274\107\007\334\163\121\361\160\144\057\010\371\264\107
\035\060\154\104\352\051\067\205\222\150\146\274\203\070\376\173
\071\056\323\120\360\037\373\136\140\266\251\246\372\047\101\361
\233\030\162\362\365\204\164\112\311\147\304\124\256\110\144\337
\214\321\156\260\035\341\007\217\010\036\231\234\161\351\114\330
\245\367\107\022\037\164\321\121\236\206\363\302\242\043\100\013
\163\333\113\246\347\163\006\214\301\240\351\301\131\254\106\372
\346\057\370\317\161\234\106\155\271\304\025\215\070\171\003\105
\110\357\304\135\327\010\356\207\071\042\206\262\015\017\130\103
\367\161\251\110\056\375\352\326\037\002\003\001\000\001\243\201
\254\060\201\251\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\006\060\017\006\003\125\035\023\001\001\377\004\005
\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024
\027\240\315\301\344\101\266\072\133\073\313\105\235\275\034\302
\230\372\206\130\060\037\006\003\125\035\043\004\030\060\026\200
\024\027\240\315\301\344\101\266\072\133\073\313\105\235\275\034
\302\230\372\206\130\060\106\006\003\125\035\040\004\077\060\075
\060\073\006\011\140\205\164\001\131\001\003\001\001\060\056\060
\054\006\010\053\006\001\005\005\007\002\001\026\040\150\164\164
\160\072\057\057\162\145\160\157\163\151\164\157\162\171\056\163
\167\151\163\163\163\151\147\156\056\143\157\155\057\060\015\006
\011\052\206\110\206\367\015\001\001\005\005\000\003\202\002\001
\000\163\306\201\340\047\322\055\017\340\225\060\342\232\101\177
\120\054\137\137\142\141\251\206\152\151\030\014\164\111\326\135
\204\352\101\122\030\157\130\255\120\126\040\152\306\275\050\151
\130\221\334\221\021\065\251\072\035\274\032\245\140\236\330\037
\177\105\221\151\331\176\273\170\162\301\006\017\052\316\217\205
\160\141\254\240\315\013\270\071\051\126\204\062\116\206\273\075
\304\052\331\327\037\162\356\376\121\241\042\101\261\161\002\143
\032\202\260\142\253\136\127\022\037\337\313\335\165\240\300\135
\171\220\214\033\340\120\346\336\061\376\230\173\160\137\245\220
\330\255\370\002\266\157\323\140\335\100\113\042\305\075\255\072

\172\237\032\032\107\221\171\063\272\202\334\062\151\003\226\156
\037\113\360\161\376\343\147\162\240\261\277\134\213\344\372\231
\042\307\204\271\033\215\043\227\077\355\045\340\317\145\273\365
\141\004\357\335\036\262\132\101\042\132\241\237\135\054\350\133
\311\155\251\014\014\170\252\140\306\126\217\001\132\014\150\274
\151\031\171\304\037\176\227\005\277\305\351\044\121\136\324\325
\113\123\355\331\043\132\066\003\145\243\301\003\255\101\060\363
\106\033\205\220\257\145\265\325\261\344\026\133\170\165\035\227
\172\155\131\251\052\217\173\336\303\207\211\020\231\111\163\170
\310\075\275\121\065\164\052\325\361\176\151\033\052\273\073\275
\045\270\232\132\075\162\141\220\146\207\356\014\326\115\324\021
\164\013\152\376\013\003\374\243\125\127\211\376\112\313\256\133
\027\005\310\362\215\043\061\123\070\322\055\152\077\202\271\215
\010\152\367\136\101\164\156\303\021\176\007\254\051\140\221\077
\070\312\127\020\015\275\060\057\307\245\346\101\240\332\256\005
\207\232\240\244\145\154\114\011\014\211\272\270\323\271\300\223
\212\060\372\215\345\232\153\025\001\116\147\252\332\142\126\076
\204\010\146\322\304\066\175\247\076\020\374\210\340\324\200\345
\000\275\252\363\116\006\243\172\152\371\142\162\343\011\117\353
\233\016\001\043\361\237\273\174\334\334\154\021\227\045\262\362
\264\143\024\322\006\052\147\214\203\365\316\352\007\330\232\152
\036\354\344\012\273\052\114\353\011\140\071\316\312\142\330\056
\156
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "SwissSign Silver CA - G2"
Issuer: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
Serial Number:4f:1b:d4:2f:54:bb:2f:4b
Subject: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
Not Valid Before: Wed Oct 25 08:32:46 2006
Not Valid After : Sat Oct 25 08:32:46 2036
Fingerprint (SHA-256):
BE:6C:4D:A2:BB:B9:BA:59:B6:F3:93:97:68:37:42:46:C3:C0:05:99:3F:A9:8F:02:0D:1D:ED:BE:D4:8A:81:D5
Fingerprint (SHA1): 9B:AA:E5:9F:56:EE:21:CB:43:5A:BE:25:93:DF:A7:F0:40:D1:1D:CB
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Silver CA - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\233\252\345\237\126\356\041\313\103\132\276\045\223\337\247\360
\100\321\035\313
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\340\006\241\311\175\317\311\374\015\300\126\165\226\330\142\023

END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\041\060\037\006\003\125\004\003\023
\030\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145
\162\040\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\117\033\324\057\124\273\057\113
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "SecureTrust CA"
#
Issuer: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
Serial Number:0c:f0:8e:5c:08:16:a5:ad:42:7f:f0:eb:27:18:59:d0
Subject: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
Not Valid Before: Tue Nov 07 19:31:18 2006
Not Valid After : Mon Dec 31 19:40:55 2029
Fingerprint (SHA-256):
F1:C1:B5:0A:E5:A2:0D:D8:03:0E:C9:F6:BC:24:82:3D:D3:67:B5:25:57:59:B4:E7:1B:61:FC:E9:F7:37:5D:73
Fingerprint (SHA1): 87:82:C6:C3:04:35:3B:CF:D2:96:92:D2:59:3E:7D:44:D9:34:FF:11
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureTrust CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\027\060\025\006\003\125\004\003\023\016\123\145\143\165
\162\145\124\162\165\163\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\027\060\025\006\003\125\004\003\023\016\123\145\143\165
\162\145\124\162\165\163\164\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\014\360\216\134\010\026\245\255\102\177\360\353\047\030
\131\320
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\270\060\202\002\240\240\003\002\001\002\002\020\014
\360\216\134\010\026\245\255\102\177\360\353\047\030\131\320\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\110
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\040\060
\036\006\003\125\004\012\023\027\123\145\143\165\162\145\124\162
\165\163\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\027\060\025\006\003\125\004\003\023\016\123\145\143\165\162\145
\124\162\165\163\164\040\103\101\060\036\027\015\060\066\061\061
\060\067\061\071\063\061\061\070\132\027\015\062\071\061\062\063
\061\061\071\064\060\065\065\132\060\110\061\013\060\011\006\003
\125\004\006\023\002\125\123\061\040\060\036\006\003\125\004\012
\023\027\123\145\143\165\162\145\124\162\165\163\164\040\103\157
\162\160\157\162\141\164\151\157\156\061\027\060\025\006\003\125
\004\003\023\016\123\145\143\165\162\145\124\162\165\163\164\040
\103\101\060\202\001\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202
\001\001\000\253\244\201\345\225\315\365\366\024\216\302\117\312
\324\342\170\225\130\234\101\341\015\231\100\044\027\071\221\063
\146\351\276\341\203\257\142\134\211\321\374\044\133\141\263\340
\021\021\101\034\035\156\360\270\273\370\336\247\201\272\246\110
\306\237\035\275\276\216\251\101\076\270\224\355\051\032\324\216
\322\003\035\003\357\155\015\147\034\127\327\006\255\312\310\365
\376\016\257\146\045\110\004\226\013\135\243\272\026\303\010\117
\321\106\370\024\134\362\310\136\001\231\155\375\210\314\206\250
\301\157\061\102\154\122\076\150\313\363\031\064\337\273\207\030
\126\200\046\304\320\334\300\157\337\336\240\302\221\026\240\144
\021\113\104\274\036\366\347\372\143\336\146\254\166\244\161\243
\354\066\224\150\172\167\244\261\347\016\057\201\172\342\265\162
\206\357\242\153\213\360\017\333\323\131\077\272\162\274\104\044
\234\343\163\263\367\257\127\057\102\046\235\251\164\272\000\122
\362\113\315\123\174\107\013\066\205\016\146\251\010\227\026\064
\127\301\146\367\200\343\355\160\124\307\223\340\056\050\025\131
\207\272\273\002\003\001\000\001\243\201\235\060\201\232\060\023
\006\011\053\006\001\004\001\202\067\024\002\004\006\036\004\000
\103\000\101\060\013\006\003\125\035\017\004\004\003\002\001\206
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\035\006\003\125\035\016\004\026\004\024\102\062\266\026
\372\004\375\376\135\113\172\303\375\367\114\100\035\132\103\257
\060\064\006\003\125\035\037\004\055\060\053\060\051\240\047\240
\045\206\043\150\164\164\160\072\057\057\143\162\154\056\163\145
\143\165\162\145\164\162\165\163\164\056\143\157\155\057\123\124
\103\101\056\143\162\154\060\020\006\011\053\006\001\004\001\202
\067\025\001\004\003\002\001\000\060\015\006\011\052\206\110\206

\367\015\001\001\005\005\000\003\202\001\001\000\060\355\117\112
\341\130\072\122\162\133\265\246\243\145\030\246\273\121\073\167
\351\235\352\323\237\134\340\105\145\173\015\312\133\342\160\120
\262\224\005\024\256\111\307\215\101\007\022\163\224\176\014\043
\041\375\274\020\177\140\020\132\162\365\230\016\254\354\271\177
\335\172\157\135\323\034\364\377\210\005\151\102\251\005\161\310
\267\254\046\350\056\264\214\152\377\161\334\270\261\337\231\274
\174\041\124\053\344\130\242\273\127\051\256\236\251\243\031\046
\017\231\056\010\260\357\375\151\317\231\032\011\215\343\247\237
\053\311\066\064\173\044\263\170\114\225\027\244\006\046\036\266
\144\122\066\137\140\147\331\234\305\005\164\013\347\147\043\322
\010\374\210\351\256\213\177\341\060\364\067\176\375\306\062\332
\055\236\104\060\060\154\356\007\336\322\064\374\322\377\100\366
\113\364\146\106\006\124\246\362\062\012\143\046\060\153\233\321
\334\213\107\272\341\271\325\142\320\242\240\364\147\005\170\051
\143\032\157\004\326\370\306\114\243\232\261\067\264\215\345\050
\113\035\236\054\302\270\150\274\355\002\356\061
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "SecureTrust CA"
Issuer: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
Serial Number:0c:f0:8e:5c:08:16:a5:ad:42:7f:f0:eb:27:18:59:d0
Subject: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
Not Valid Before: Tue Nov 07 19:31:18 2006
Not Valid After : Mon Dec 31 19:40:55 2029
Fingerprint (SHA-256):
F1:C1:B5:0A:E5:A2:0D:D8:03:0E:C9:F6:BC:24:82:3D:D3:67:B5:25:57:59:B4:E7:1B:61:FC:E9:F7:37:5D:73
Fingerprint (SHA1): 87:82:C6:C3:04:35:3B:CF:D2:96:92:D2:59:3E:7D:44:D9:34:FF:11
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureTrust CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\207\202\306\303\004\065\073\317\322\226\222\322\131\076\175\104
\331\064\377\021
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\334\062\303\247\155\045\127\307\150\011\235\352\055\251\242\321
END
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\027\060\025\006\003\125\004\003\023\016\123\145\143\165

\162\145\124\162\165\163\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\014\360\216\134\010\026\245\255\102\177\360\353\047\030
\131\320
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Secure Global CA"
#
Issuer: CN=Secure Global CA,O=SecureTrust Corporation,C=US
Serial Number:07:56:22:a4:e8:d4:8a:89:4d:f4:13:c8:f0:f8:ea:a5
Subject: CN=Secure Global CA,O=SecureTrust Corporation,C=US
Not Valid Before: Tue Nov 07 19:42:28 2006
Not Valid After : Mon Dec 31 19:52:06 2029
Fingerprint (SHA-256):
42:00:F5:04:3A:C8:59:0E:BB:52:7D:20:9E:D1:50:30:29:FB:CB:D4:1C:A1:B5:06:EC:27:F1:5A:DE:7D:AC:69
Fingerprint (SHA1): 3A:44:73:5A:E5:81:90:1F:24:86:61:46:1E:3B:9C:C4:5F:F5:3A:1B
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Secure Global CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165
\162\145\040\107\154\157\142\141\154\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165
\162\145\040\107\154\157\142\141\154\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\007\126\042\244\350\324\212\211\115\364\023\310\360\370
\352\245
END
CKA_VALUE MULTILINE_OCTAL

\060\202\003\274\060\202\002\244\240\003\002\001\002\002\020\007
\126\042\244\350\324\212\211\115\364\023\310\360\370\352\245\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\112
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\040\060
\036\006\003\125\004\012\023\027\123\145\143\165\162\145\124\162
\165\163\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\031\060\027\006\003\125\004\003\023\020\123\145\143\165\162\145
\040\107\154\157\142\141\154\040\103\101\060\036\027\015\060\066
\061\061\060\067\061\071\064\062\062\070\132\027\015\062\071\061
\062\063\061\061\071\065\062\060\066\132\060\112\061\013\060\011
\006\003\125\004\006\023\002\125\123\061\040\060\036\006\003\125
\004\012\023\027\123\145\143\165\162\145\124\162\165\163\164\040
\103\157\162\160\157\162\141\164\151\157\156\061\031\060\027\006
\003\125\004\003\023\020\123\145\143\165\162\145\040\107\154\157
\142\141\154\040\103\101\060\202\001\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202
\001\012\002\202\001\001\000\257\065\056\330\254\154\125\151\006
\161\345\023\150\044\263\117\330\314\041\107\370\361\140\070\211
\211\003\351\275\352\136\106\123\011\334\134\365\132\350\367\105
\052\002\353\061\141\327\051\063\114\316\307\174\012\067\176\017
\272\062\230\341\035\227\257\217\307\334\311\070\226\363\333\032
\374\121\355\150\306\320\156\244\174\044\321\256\102\310\226\120
\143\056\340\376\165\376\230\247\137\111\056\225\343\071\063\144
\216\036\244\137\220\322\147\074\262\331\376\101\271\125\247\011
\216\162\005\036\213\335\104\205\202\102\320\111\300\035\140\360
\321\027\054\225\353\366\245\301\222\243\305\302\247\010\140\015
\140\004\020\226\171\236\026\064\346\251\266\372\045\105\071\310
\036\145\371\223\365\252\361\122\334\231\230\075\245\206\032\014
\065\063\372\113\245\004\006\025\034\061\200\357\252\030\153\302
\173\327\332\316\371\063\040\325\365\275\152\063\055\201\004\373
\260\134\324\234\243\342\134\035\343\251\102\165\136\173\324\167
\357\071\124\272\311\012\030\033\022\231\111\057\210\113\375\120
\142\321\163\347\217\172\103\002\003\001\000\001\243\201\235\060
\201\232\060\023\006\011\053\006\001\004\001\202\067\024\002\004
\006\036\004\000\103\000\101\060\013\006\003\125\035\017\004\004
\003\002\001\206\060\017\006\003\125\035\023\001\001\377\004\005
\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024
\257\104\004\302\101\176\110\203\333\116\071\002\354\354\204\172
\346\316\311\244\060\064\006\003\125\035\037\004\055\060\053\060
\051\240\047\240\045\206\043\150\164\164\160\072\057\057\143\162
\154\056\163\145\143\165\162\145\164\162\165\163\164\056\143\157
\155\057\123\107\103\101\056\143\162\154\060\020\006\011\053\006
\001\004\001\202\067\025\001\004\003\002\001\000\060\015\006\011
\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000
\143\032\010\100\175\244\136\123\015\167\330\172\256\037\015\013
\121\026\003\357\030\174\310\343\257\152\130\223\024\140\221\262
\204\334\210\116\276\071\212\072\363\346\202\211\135\001\067\263
\253\044\244\025\016\222\065\132\112\104\136\116\127\372\165\316

\037\110\316\146\364\074\100\046\222\230\154\033\356\044\106\014
\027\263\122\245\333\245\221\221\317\067\323\157\347\047\010\072
\116\031\037\072\247\130\134\027\317\171\077\213\344\247\323\046
\043\235\046\017\130\151\374\107\176\262\320\215\213\223\277\051
\117\103\151\164\166\147\113\317\007\214\346\002\367\265\341\264
\103\265\113\055\024\237\371\334\046\015\277\246\107\164\006\330
\210\321\072\051\060\204\316\322\071\200\142\033\250\307\127\111
\274\152\125\121\147\025\112\276\065\007\344\325\165\230\067\171
\060\024\333\051\235\154\305\151\314\107\125\242\060\367\314\134
\177\302\303\230\034\153\116\026\200\353\172\170\145\105\242\000
\032\257\014\015\125\144\064\110\270\222\271\361\264\120\051\362
\117\043\037\332\154\254\037\104\341\335\043\170\121\133\307\026
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Secure Global CA"
Issuer: CN=Secure Global CA,O=SecureTrust Corporation,C=US
Serial Number:07:56:22:a4:e8:d4:8a:89:4d:f4:13:c8:f0:f8:ea:a5
Subject: CN=Secure Global CA,O=SecureTrust Corporation,C=US
Not Valid Before: Tue Nov 07 19:42:28 2006
Not Valid After : Mon Dec 31 19:52:06 2029
Fingerprint (SHA-256):
42:00:F5:04:3A:C8:59:0E:BB:52:7D:20:9E:D1:50:30:29:FB:CB:D4:1C:A1:B5:06:EC:27:F1:5A:DE:7D:AC:69
Fingerprint (SHA1): 3A:44:73:5A:E5:81:90:1F:24:86:61:46:1E:3B:9C:C4:5F:F5:3A:1B
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Secure Global CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\072\104\163\132\345\201\220\037\044\206\141\106\036\073\234\304
\137\365\072\033
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\317\364\047\015\324\355\334\145\026\111\155\075\332\277\156\336
END
CKA_ISSUER MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165
\162\145\040\107\154\157\142\141\154\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\007\126\042\244\350\324\212\211\115\364\023\310\360\370
\352\245

END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "COMODO Certification Authority"
#
Issuer: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
Serial Number:4e:81:2d:8a:82:65:e0:0b:02:ee:3e:35:02:46:e5:3d
Subject: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
Not Valid Before: Fri Dec 01 00:00:00 2006
Not Valid After : Mon Dec 31 23:59:59 2029
Fingerprint (SHA-256): 0C:2C:D6:3D:F7:80:6F:A3:99:ED:E8:09:11:6B:57:5B:F8:79:89:F0:65:18:F9:80:8C:86:05:03:17:8B:AF:66
Fingerprint (SHA1): 66:31:BF:9E:F7:4F:9E:B6:C9:D5:A6:0C:BA:6A:BE:D1:F7:BD:EF:7B
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\201\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\047\060\045\006
\003\125\004\003\023\036\103\117\115\117\104\117\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\201\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\047\060\045\006
\003\125\004\003\023\036\103\117\115\117\104\117\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\116\201\055\212\202\145\340\013\002\356\076\065\002\106
\345\075
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\035\060\202\003\005\240\003\002\001\002\002\020\116
\201\055\212\202\145\340\013\002\356\076\065\002\106\345\075\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\201
\201\061\013\060\011\006\003\125\004\006\023\002\107\102\061\033
\060\031\006\003\125\004\010\023\022\107\162\145\141\164\145\162
\040\115\141\156\143\150\145\163\164\145\162\061\020\060\016\006
\003\125\004\007\023\007\123\141\154\146\157\162\144\061\032\060
\030\006\003\125\004\012\023\021\103\117\115\117\104\117\040\103
\101\040\114\151\155\151\164\145\144\061\047\060\045\006\003\125
\004\003\023\036\103\117\115\117\104\117\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\060\036\027\015\060\066\061\062\060\061\060\060\060\060
\060\060\132\027\015\062\071\061\062\063\061\062\063\065\071\065
\071\132\060\201\201\061\013\060\011\006\003\125\004\006\023\002
\107\102\061\033\060\031\006\003\125\004\010\023\022\107\162\145
\141\164\145\162\040\115\141\156\143\150\145\163\164\145\162\061
\020\060\016\006\003\125\004\007\023\007\123\141\154\146\157\162
\144\061\032\060\030\006\003\125\004\012\023\021\103\117\115\117
\104\117\040\103\101\040\114\151\155\151\164\145\144\061\047\060
\045\006\003\125\004\003\023\036\103\117\115\117\104\117\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\060\202\001\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202
\001\012\002\202\001\001\000\320\100\213\213\162\343\221\033\367
\121\301\033\124\004\230\323\251\277\301\346\212\135\073\207\373
\273\210\316\015\343\057\077\006\226\360\242\051\120\231\256\333
\073\241\127\260\164\121\161\315\355\102\221\115\101\376\251\310
\330\152\206\167\104\273\131\146\227\120\136\264\324\054\160\104
\317\332\067\225\102\151\074\060\304\161\263\122\360\041\115\241
\330\272\071\174\034\236\243\044\235\362\203\026\230\252\026\174
\103\233\025\133\267\256\064\221\376\324\142\046\030\106\232\077
\353\301\371\361\220\127\353\254\172\015\213\333\162\060\152\146
\325\340\106\243\160\334\150\331\377\004\110\211\167\336\265\351
\373\147\155\101\351\274\071\275\062\331\142\002\361\261\250\075
\156\067\234\342\057\342\323\242\046\213\306\270\125\103\210\341
\043\076\245\322\044\071\152\107\253\000\324\241\263\251\045\376
\015\077\247\035\272\323\121\301\013\244\332\254\070\357\125\120
\044\005\145\106\223\064\117\055\215\255\306\324\041\031\322\216
\312\005\141\161\007\163\107\345\212\031\022\275\004\115\316\116
\234\245\110\254\273\046\367\002\003\001\000\001\243\201\216\060
\201\213\060\035\006\003\125\035\016\004\026\004\024\013\130\345
\213\306\114\025\067\244\100\251\060\251\041\276\107\066\132\126
\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001

\006\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\111\006\003\125\035\037\004\102\060\100\060\076\240
\074\240\072\206\070\150\164\164\160\072\057\057\143\162\154\056
\143\157\155\157\144\157\143\141\056\143\157\155\057\103\117\115
\117\104\117\103\145\162\164\151\146\151\143\141\164\151\157\156
\101\165\164\150\157\162\151\164\171\056\143\162\154\060\015\006
\011\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001
\000\076\230\236\233\366\033\351\327\071\267\170\256\035\162\030
\111\323\207\344\103\202\353\077\311\252\365\250\265\357\125\174
\041\122\145\371\325\015\341\154\364\076\214\223\163\221\056\002
\304\116\007\161\157\300\217\070\141\010\250\036\201\012\300\057
\040\057\101\213\221\334\110\105\274\361\306\336\272\166\153\063
\310\000\055\061\106\114\355\347\235\317\210\224\377\063\300\126
\350\044\206\046\270\330\070\070\337\052\153\335\022\314\307\077
\107\027\114\242\302\006\226\011\326\333\376\077\074\106\101\337
\130\342\126\017\074\073\301\034\223\065\331\070\122\254\356\310
\354\056\060\116\224\065\264\044\037\113\170\151\332\362\002\070
\314\225\122\223\360\160\045\131\234\040\147\304\356\371\213\127
\141\364\222\166\175\077\204\215\125\267\350\345\254\325\361\365
\031\126\246\132\373\220\034\257\223\353\345\034\324\147\227\135
\004\016\276\013\203\246\027\203\271\060\022\240\305\063\025\005
\271\015\373\307\005\166\343\330\112\215\374\064\027\243\306\041
\050\276\060\105\061\036\307\170\276\130\141\070\254\073\342\001
\145
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "COMODO Certification Authority"
Issuer: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
Serial Number:4e:81:2d:8a:82:65:e0:0b:02:ee:3e:35:02:46:e5:3d
Subject: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
Not Valid Before: Fri Dec 01 00:00:00 2006
Not Valid After : Mon Dec 31 23:59:59 2029
Fingerprint (SHA-256):
0C:2C:D6:3D:F7:80:6F:A3:99:ED:E8:09:11:6B:57:5B:F8:79:89:F0:65:18:F9:80:8C:86:05:03:17:8B:AF:66
Fingerprint (SHA1): 66:31:BF:9E:F7:4F:9E:B6:C9:D5:A6:0C:BA:6A:BE:D1:F7:BD:EF:7B
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\146\061\277\236\367\117\236\266\311\325\246\014\272\152\276\321
\367\275\357\173

```
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\134\110\334\367\102\162\354\126\224\155\034\314\161\065\200\165
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\201\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\047\060\045\006
\003\125\004\003\023\036\103\117\115\117\104\117\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\116\201\055\212\202\145\340\013\002\356\076\065\002\106
\345\075
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Network Solutions Certificate Authority"
#
# Issuer: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Serial Number:57:cb:33:6f:c2:5c:16:e6:47:16:17:e3:90:31:68:e0
# Subject: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After : Mon Dec 31 23:59:59 2029
# Fingerprint (SHA-256):
15:F0:BA:00:A3:AC:7A:F3:AC:88:4C:07:2B:10:11:A0:77:BD:77:C0:97:F4:01:64:B2:F8:59:8A:BD:83:86:0C
# Fingerprint (SHA1): 74:F8:A3:C3:EF:E7:B3:90:06:4B:83:90:3C:21:64:60:20:E5:DF:CE
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Network Solutions Certificate Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\041\060\037\006\003\125\004\012\023\030\116\145\164\167\157\162
\153\040\123\157\154\165\164\151\157\156\163\040\114\056\114\056
\103\056\061\060\060\056\006\003\125\004\003\023\047\116\145\164
\167\157\162\153\040\123\157\154\165\164\151\157\156\163\040\103
\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157
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\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\041\060\037\006\003\125\004\012\023\030\116\145\164\167\157\162
\153\040\123\157\154\165\164\151\157\156\163\040\114\056\114\056
\103\056\061\060\060\056\006\003\125\004\003\023\047\116\145\164
\167\157\162\153\040\123\157\154\165\164\151\157\156\163\040\103
\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157
\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\127\313\063\157\302\134\026\346\107\026\027\343\220\061
\150\340
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\346\060\202\002\316\240\003\002\001\002\002\020\127
\313\063\157\302\134\026\346\107\026\027\343\220\061\150\340\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\142
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\041\060
\037\006\003\125\004\012\023\030\116\145\164\167\157\162\153\040
\123\157\154\165\164\151\157\156\163\040\114\056\114\056\103\056
\061\060\060\056\006\003\125\004\003\023\047\116\145\164\167\157
\162\153\040\123\157\154\165\164\151\157\156\163\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\060\036\027\015\060\066\061\062\060\061\060\060\060\060
\060\060\132\027\015\062\071\061\062\063\061\062\063\065\071\065
\071\132\060\142\061\013\060\011\006\003\125\004\006\023\002\125
\123\061\041\060\037\006\003\125\004\012\023\030\116\145\164\167
\157\162\153\040\123\157\154\165\164\151\157\156\163\040\114\056
\114\056\103\056\061\060\060\056\006\003\125\004\003\023\047\116
\145\164\167\157\162\153\040\123\157\154\165\164\151\157\156\163
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\060\202\001\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202
\001\012\002\202\001\001\000\344\274\176\222\060\155\306\330\216
\053\013\274\106\316\340\047\226\336\336\371\372\022\323\074\063
\163\263\004\057\274\161\214\345\237\266\042\140\076\137\135\316
\011\377\202\014\033\232\121\120\032\046\211\335\325\141\135\031
\334\022\017\055\012\242\103\135\027\320\064\222\040\352\163\317
\070\054\006\046\011\172\162\367\372\120\062\370\302\223\323\151
\242\043\316\101\261\314\344\325\037\066\321\212\072\370\214\143
\342\024\131\151\355\015\323\177\153\350\270\003\345\117\152\345
\230\143\151\110\005\276\056\377\063\266\351\227\131\151\370\147
\031\256\223\141\226\104\025\323\162\260\077\274\152\175\354\110
\177\215\303\253\252\161\053\123\151\101\123\064\265\260\271\305
\006\012\304\260\105\365\101\135\156\211\105\173\075\073\046\214

\164\302\345\322\321\175\262\021\324\373\130\062\042\232\200\311
\334\375\014\351\177\136\003\227\316\073\000\024\207\047\160\070
\251\216\156\263\047\166\230\121\340\005\343\041\253\032\325\205
\042\074\051\265\232\026\305\200\250\364\273\153\060\217\057\106
\002\242\261\014\042\340\323\002\003\001\000\001\243\201\227\060
\201\224\060\035\006\003\125\035\016\004\026\004\024\041\060\311
\373\000\327\116\230\332\207\252\052\320\247\056\261\100\061\247
\114\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\006\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\122\006\003\125\035\037\004\113\060\111\060\107\240
\105\240\103\206\101\150\164\164\160\072\057\057\143\162\154\056
\156\145\164\163\157\154\163\163\154\056\143\157\155\057\116\145
\164\167\157\162\153\123\157\154\165\164\151\157\156\163\103\145
\162\164\151\146\151\143\141\164\145\101\165\164\150\157\162\151
\164\171\056\143\162\154\060\015\006\011\052\206\110\206\367\015
\001\001\005\005\000\003\202\001\001\000\273\256\113\347\267\127
\353\177\252\055\267\163\107\205\152\301\344\245\035\344\347\074
\351\364\131\145\167\265\172\133\132\215\045\066\340\172\227\056
\070\300\127\140\203\230\006\203\237\271\166\172\156\120\340\272
\210\054\374\105\314\030\260\231\225\121\016\354\035\270\210\377
\207\120\034\202\302\343\340\062\200\277\240\013\107\310\303\061
\357\231\147\062\200\117\027\041\171\014\151\134\336\136\064\256
\002\265\046\352\120\337\177\030\145\054\311\362\143\341\251\007
\376\174\161\037\153\063\044\152\036\005\367\005\150\300\152\022
\313\056\136\141\313\256\050\323\176\302\264\146\221\046\137\074
\056\044\137\313\130\017\353\050\354\257\021\226\363\334\173\157
\300\247\210\362\123\167\263\140\136\256\256\050\332\065\054\157
\064\105\323\046\341\336\354\133\117\047\153\026\174\275\104\004
\030\202\263\211\171\027\020\161\075\172\242\026\116\365\001\315
\244\154\145\150\241\111\166\134\103\311\330\274\066\147\154\245
\224\265\324\314\271\275\152\065\126\041\336\330\303\353\373\313
\244\140\114\260\125\240\240\173\127\262
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Network Solutions Certificate Authority"
Issuer: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
Serial Number:57:cb:33:6f:c2:5c:16:e6:47:16:17:e3:90:31:68:e0
Subject: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
Not Valid Before: Fri Dec 01 00:00:00 2006
Not Valid After : Mon Dec 31 23:59:59 2029
Fingerprint (SHA-256):
15:F0:BA:00:A3:AC:7A:F3:AC:88:4C:07:2B:10:11:A0:77:BD:77:C0:97:F4:01:64:B2:F8:59:8A:BD:83:86:0C
Fingerprint (SHA1): 74:F8:A3:C3:EF:E7:B3:90:06:4B:83:90:3C:21:64:60:20:E5:DF:CE
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Network Solutions Certificate Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\164\370\243\303\357\347\263\220\006\113\203\220\074\041\144\140
\040\345\337\316
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\323\363\246\026\300\372\153\035\131\261\055\226\115\016\021\056
END
CKA_ISSUER MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\041\060\037\006\003\125\004\012\023\030\116\145\164\167\157\162
\153\040\123\157\154\165\164\151\157\156\163\040\114\056\114\056
\103\056\061\060\060\056\006\003\125\004\003\023\047\116\145\164
\167\157\162\153\040\123\157\154\165\164\151\157\156\163\040\103
\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157
\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\127\313\063\157\302\134\026\346\107\026\027\343\220\061
\150\340
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "COMODO ECC Certification Authority"
#
Issuer: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
Serial Number:1f:47:af:aa:62:00:70:50:54:4c:01:9e:9b:63:99:2a
Subject: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
Not Valid Before: Thu Mar 06 00:00:00 2008
Not Valid After : Mon Jan 18 23:59:59 2038
Fingerprint (SHA-256):
17:93:92:7A:06:14:54:97:89:AD:CE:2F:8F:34:F7:F0:B6:6D:0F:3A:E3:A3:B8:4D:21:EC:15:DB:BA:4F:AD:C7
Fingerprint (SHA1): 9F:74:4E:9F:2B:4D:BA:EC:0F:31:2C:50:B6:56:3B:8E:2D:93:C3:11
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO ECC Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

\060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\042\103\117\115\117\104\117\040\105\103\103
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\042\103\117\115\117\104\117\040\105\103\103
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\037\107\257\252\142\000\160\120\124\114\001\236\233\143
\231\052
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\211\060\202\002\017\240\003\002\001\002\002\020\037
\107\257\252\142\000\160\120\124\114\001\236\233\143\231\052\060
\012\006\010\052\206\110\316\075\004\003\003\060\201\205\061\013
\060\011\006\003\125\004\006\023\002\107\102\061\033\060\031\006
\003\125\004\010\023\022\107\162\145\141\164\145\162\040\115\141
\156\143\150\145\163\164\145\162\061\020\060\016\006\003\125\004
\007\023\007\123\141\154\146\157\162\144\061\032\060\030\006\003
\125\004\012\023\021\103\117\115\117\104\117\040\103\101\040\114
\151\155\151\164\145\144\061\053\060\051\006\003\125\004\003\023
\042\103\117\115\117\104\117\040\105\103\103\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\060\036\027\015\060\070\060\063\060\066\060\060\060
\060\060\060\132\027\015\063\070\060\061\061\070\062\063\065\071
\065\071\132\060\201\205\061\013\060\011\006\003\125\004\006\023
\002\107\102\061\033\060\031\006\003\125\004\010\023\022\107\162
\145\141\164\145\162\040\115\141\156\143\150\145\163\164\145\162
\061\020\060\016\006\003\125\004\007\023\007\123\141\154\146\157
\162\144\061\032\060\030\006\003\125\004\012\023\021\103\117\115
\117\104\117\040\103\101\040\114\151\155\151\164\145\144\061\053
\060\051\006\003\125\004\003\023\042\103\117\115\117\104\117\040
\105\103\103\040\103\145\162\164\151\146\151\143\141\164\151\157

\156\040\101\165\164\150\157\162\151\164\171\060\166\060\020\006
\007\052\206\110\316\075\002\001\006\005\053\201\004\000\042\003
\142\000\004\003\107\173\057\165\311\202\025\205\373\165\344\221
\026\324\253\142\231\365\076\122\013\006\316\101\000\177\227\341
\012\044\074\035\001\004\356\075\322\215\011\227\014\340\165\344
\372\373\167\212\052\365\003\140\113\066\213\026\043\026\255\011
\161\364\112\364\050\120\264\376\210\034\156\077\154\057\057\011
\131\133\245\133\013\063\231\342\303\075\211\371\152\054\357\262
\323\006\351\243\102\060\100\060\035\006\003\125\035\016\004\026
\004\024\165\161\247\031\110\031\274\235\235\352\101\107\337\224
\304\110\167\231\323\171\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\012\006\010\052\206\110\316\075
\004\003\003\003\150\000\060\145\002\061\000\357\003\133\172\254
\267\170\012\162\267\210\337\377\265\106\024\011\012\372\240\346
\175\010\306\032\207\275\030\250\163\275\046\312\140\014\235\316
\231\237\317\134\017\060\341\276\024\061\352\002\060\024\364\223
\074\111\247\063\172\220\106\107\263\143\175\023\233\116\267\157
\030\067\200\123\376\335\040\340\065\232\066\321\307\001\271\346
\334\335\363\377\035\054\072\026\127\331\222\071\326
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "COMODO ECC Certification Authority"
Issuer: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
Serial Number:1f:47:af:aa:62:00:70:50:54:4c:01:9e:9b:63:99:2a
Subject: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
Not Valid Before: Thu Mar 06 00:00:00 2008
Not Valid After : Mon Jan 18 23:59:59 2038
Fingerprint (SHA-256):
17:93:92:7A:06:14:54:97:89:AD:CE:2F:8F:34:F7:F0:B6:6D:0F:3A:E3:A3:B8:4D:21:EC:15:DB:BA:4F:AD:C7
Fingerprint (SHA1): 9F:74:4E:9F:2B:4D:BA:EC:0F:31:2C:50:B6:56:3B:8E:2D:93:C3:11
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO ECC Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\237\164\116\237\053\115\272\354\017\061\054\120\266\126\073\216
\055\223\303\021
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\174\142\377\164\235\061\123\136\150\112\325\170\252\036\277\043
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\042\103\117\115\117\104\117\040\105\103\103
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\037\107\257\252\142\000\160\120\124\114\001\236\233\143
\231\052
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "OISTE WISeKey Global Root GA CA"
#
Issuer: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c)
2005,O=WISeKey,C=CH
Serial Number:41:3d:72:c7:f4:6b:1f:81:43:7d:f1:d2:28:54:df:9a
Subject: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c)
2005,O=WISeKey,C=CH
Not Valid Before: Sun Dec 11 16:03:44 2005
Not Valid After : Fri Dec 11 16:09:51 2037
Fingerprint (SHA-256):
41:C9:23:86:6A:B4:CA:D6:B7:AD:57:80:81:58:2E:02:07:97:A6:CB:DF:4F:FF:78:CE:83:96:B3:89:37:D7:F5
Fingerprint (SHA1): 59:22:A1:E1:5A:EA:16:35:21:F8:98:39:6A:46:46:B0:44:1B:0F:A9
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GA CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\212\061\013\060\011\006\003\125\004\006\023\002\103\110
\061\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113
\145\171\061\033\060\031\006\003\125\004\013\023\022\103\157\160
\171\162\151\147\150\164\040\050\143\051\040\062\060\060\065\061
\042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040
\106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
\163\145\144\061\050\060\046\006\003\125\004\003\023\037\117\111
\123\124\105\040\127\111\123\145\113\145\171\040\107\154\157\142

\141\154\040\122\157\157\164\040\107\101\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\212\061\013\060\011\006\003\125\004\006\023\002\103\110
\061\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113
\145\171\061\033\060\031\006\003\125\004\013\023\022\103\157\160
\171\162\151\147\150\164\040\050\143\051\040\062\060\060\065\061
\042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040
\106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
\163\145\144\061\050\060\046\006\003\125\004\003\023\037\117\111
\123\124\105\040\127\111\123\145\113\145\171\040\107\154\157\142
\141\154\040\122\157\157\164\040\107\101\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\101\075\162\307\364\153\037\201\103\175\361\322\050\124
\337\232
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\361\060\202\002\331\240\003\002\001\002\002\020\101
\075\162\307\364\153\037\201\103\175\361\322\050\124\337\232\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\201
\212\061\013\060\011\006\003\125\004\006\023\002\103\110\061\020
\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145\171
\061\033\060\031\006\003\125\004\013\023\022\103\157\160\171\162
\151\147\150\164\040\050\143\051\040\062\060\060\065\061\042\060
\040\006\003\125\004\013\023\031\117\111\123\124\105\040\106\157
\165\156\144\141\164\151\157\156\040\105\156\144\157\162\163\145
\144\061\050\060\046\006\003\125\004\003\023\037\117\111\123\124
\105\040\127\111\123\145\113\145\171\040\107\154\157\142\141\154
\040\122\157\157\164\040\107\101\040\103\101\060\036\027\015\060
\065\061\062\061\061\061\066\060\063\064\064\132\027\015\063\067
\061\062\061\061\061\066\060\071\065\061\132\060\201\212\061\013
\060\011\006\003\125\004\006\023\002\103\110\061\020\060\016\006
\003\125\004\012\023\007\127\111\123\145\113\145\171\061\033\060
\031\006\003\125\004\013\023\022\103\157\160\171\162\151\147\150
\164\040\050\143\051\040\062\060\060\065\061\042\060\040\006\003
\125\004\013\023\031\117\111\123\124\105\040\106\157\165\156\144
\141\164\151\157\156\040\105\156\144\157\162\163\145\144\061\050
\060\046\006\003\125\004\003\023\037\117\111\123\124\105\040\127
\111\123\145\113\145\171\040\107\154\157\142\141\154\040\122\157
\157\164\040\107\101\040\103\101\060\202\001\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000
\060\202\001\012\002\202\001\001\000\313\117\263\000\233\075\066
\335\371\321\111\152\153\020\111\037\354\330\053\262\306\370\062
\201\051\103\225\114\232\031\043\041\025\105\336\343\310\034\121
\125\133\256\223\350\067\377\053\153\351\324\352\276\052\335\250
\121\053\327\146\303\141\134\140\002\310\365\316\162\173\073\270

\362\116\145\010\232\315\244\152\031\301\001\273\163\246\327\366
\303\335\315\274\244\213\265\231\141\270\001\242\243\324\115\324
\005\075\221\255\370\264\010\161\144\257\160\361\034\153\176\366
\303\167\235\044\163\173\344\014\214\341\331\066\341\231\213\005
\231\013\355\105\061\011\312\302\000\333\367\162\240\226\252\225
\207\320\216\307\266\141\163\015\166\146\214\334\033\264\143\242
\237\177\223\023\060\361\241\047\333\331\377\054\125\210\221\240
\340\117\007\260\050\126\214\030\033\227\104\216\211\335\340\027
\156\347\052\357\217\071\012\061\204\202\330\100\024\111\056\172
\101\344\247\376\343\144\314\301\131\161\113\054\041\247\133\175
\340\035\321\056\201\233\303\330\150\367\275\226\033\254\160\261
\026\024\013\333\140\271\046\001\005\002\003\001\000\001\243\121
\060\117\060\013\006\003\125\035\017\004\004\003\002\001\206\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\035\006\003\125\035\016\004\026\004\024\263\003\176\256\066
\274\260\171\321\334\224\046\266\021\276\041\262\151\206\224\060
\020\006\011\053\006\001\004\001\202\067\025\001\004\003\002\001
\000\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000
\003\202\001\001\000\113\241\377\013\207\156\263\371\301\103\261
\110\363\050\300\035\056\311\011\101\372\224\000\034\244\244\253
\111\117\217\075\036\357\115\157\275\274\244\366\362\046\060\311
\020\312\035\210\373\164\031\037\205\105\275\260\154\121\371\066
\176\333\365\114\062\072\101\117\133\107\317\350\013\055\266\304
\031\235\164\305\107\306\073\152\017\254\024\333\074\364\163\234
\251\005\337\000\334\164\170\372\370\065\140\131\002\023\030\174
\274\373\115\260\040\155\103\273\140\060\172\147\063\134\305\231
\321\370\055\071\122\163\373\214\252\227\045\134\162\331\010\036
\253\116\074\343\201\061\237\003\246\373\300\376\051\210\125\332
\204\325\120\003\266\342\204\243\246\066\252\021\072\001\341\030
\113\326\104\150\263\075\371\123\164\204\263\106\221\106\226\000
\267\200\054\266\341\343\020\342\333\242\347\050\217\001\226\142
\026\076\000\343\034\245\066\201\030\242\114\122\166\300\021\243
\156\346\035\272\343\132\276\066\123\305\076\165\217\206\151\051
\130\123\265\234\273\157\237\134\305\030\354\335\057\341\230\311
\374\276\337\012\015
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "OISTE WISeKey Global Root GA CA"
Issuer: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c) 2005,O=WISeKey,C=CH
Serial Number:41:3d:72:c7:f4:6b:1f:81:43:7d:f1:d2:28:54:df:9a
Subject: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c) 2005,O=WISeKey,C=CH
Not Valid Before: Sun Dec 11 16:03:44 2005
Not Valid After : Fri Dec 11 16:09:51 2037

```
# Fingerprint (SHA-256):
41:C9:23:86:6A:B4:CA:D6:B7:AD:57:80:81:58:2E:02:07:97:A6:CB:DF:4F:FF:78:CE:83:96:B3:89:37:D7:F5
# Fingerprint (SHA1): 59:22:A1:E1:5A:EA:16:35:21:F8:98:39:6A:46:46:B0:44:1B:0F:A9
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GA CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\131\042\241\341\132\352\026\065\041\370\230\071\152\106\106\260
\104\033\017\251
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\274\154\121\063\247\351\323\146\143\124\025\162\033\041\222\223
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\212\061\013\060\011\006\003\125\004\006\023\002\103\110
\061\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113
\145\171\061\033\060\031\006\003\125\004\013\023\022\103\157\160
\171\162\151\147\150\164\040\050\143\051\040\062\060\060\065\061
\042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040
\106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
\163\145\144\061\050\060\046\006\003\125\004\003\023\037\117\111
\123\124\105\040\127\111\123\145\113\145\171\040\107\154\157\142
\141\154\040\122\157\157\164\040\107\101\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\101\075\162\307\364\153\037\201\103\175\361\322\050\124
\337\232
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Certigna"
#
# Issuer: CN=Certigna,O=Dhimyotis,C=FR
# Serial Number:00:fe:dc:e3:01:0f:c9:48:ff
# Subject: CN=Certigna,O=Dhimyotis,C=FR
# Not Valid Before: Fri Jun 29 15:13:05 2007
# Not Valid After : Tue Jun 29 15:13:05 2027
# Fingerprint (SHA-256):
E3:B6:A2:DB:2E:D7:CE:48:84:2F:7A:C5:32:41:C7:B7:1D:54:14:4B:FB:40:C1:1F:3F:1D:0B:42:F5:EE:A1:2D
# Fingerprint (SHA1): B1:2E:13:63:45:86:A4:6F:1A:B2:60:68:37:58:2D:C4:AC:FD:94:97
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
```

CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\064\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\021\060\017\006\003\125\004\003\014\010\103\145
\162\164\151\147\156\141
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\064\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\021\060\017\006\003\125\004\003\014\010\103\145
\162\164\151\147\156\141
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\376\334\343\001\017\311\110\377
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\250\060\202\002\220\240\003\002\001\002\002\011\000
\376\334\343\001\017\311\110\377\060\015\006\011\052\206\110\206
\367\015\001\001\005\005\000\060\064\061\013\060\011\006\003\125
\004\006\023\002\106\122\061\022\060\020\006\003\125\004\012\014
\011\104\150\151\155\171\157\164\151\163\061\021\060\017\006\003
\125\004\003\014\010\103\145\162\164\151\147\156\141\060\036\027
\015\060\067\060\066\062\071\061\065\061\063\060\065\132\027\015
\062\067\060\066\062\071\061\065\061\063\060\065\132\060\064\061
\013\060\011\006\003\125\004\006\023\002\106\122\061\022\060\020
\006\003\125\004\012\014\011\104\150\151\155\171\157\164\151\163
\061\021\060\017\006\003\125\004\003\014\010\103\145\162\164\151
\147\156\141\060\202\001\042\060\015\006\011\052\206\110\206\367
\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002
\202\001\001\000\310\150\361\311\326\326\263\064\165\046\202\036
\354\264\276\352\134\341\046\355\021\107\141\341\242\174\026\170
\100\041\344\140\236\132\310\143\341\304\261\226\222\377\030\155
\151\043\341\053\142\367\335\342\066\057\221\007\271\110\317\016
\354\171\266\054\347\064\113\160\010\045\243\074\207\033\031\362
\201\007\017\070\220\031\323\021\376\206\264\362\321\136\036\036
\226\315\200\154\316\073\061\223\266\362\240\320\251\225\022\175
\245\232\314\153\310\204\126\212\063\251\347\042\025\123\026\360
\314\027\354\127\137\351\242\012\230\011\336\343\137\234\157\334
\110\343\205\013\025\132\246\272\237\254\110\343\011\262\367\364
\062\336\136\064\276\034\170\135\102\133\316\016\042\217\115\220
\327\175\062\030\263\013\054\152\277\216\077\024\021\211\040\016
\167\024\265\075\224\010\207\367\045\036\325\262\140\000\354\157
\052\050\045\156\052\076\030\143\027\045\077\076\104\040\026\366

\046\310\045\256\005\112\264\347\143\054\363\214\026\123\176\134
\373\021\032\010\301\106\142\237\042\270\361\302\215\151\334\372
\072\130\006\337\002\003\001\000\001\243\201\274\060\201\271\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\035\006\003\125\035\016\004\026\004\024\032\355\376\101\071
\220\264\044\131\276\001\362\122\325\105\366\132\071\334\021\060
\144\006\003\125\035\043\004\135\060\133\200\024\032\355\376\101
\071\220\264\044\131\276\001\362\122\325\105\366\132\071\334\021
\241\070\244\066\060\064\061\013\060\011\006\003\125\004\006\023
\002\106\122\061\022\060\020\006\003\125\004\012\014\011\104\150
\151\155\171\157\164\151\163\061\021\060\017\006\003\125\004\003
\014\010\103\145\162\164\151\147\156\141\202\011\000\376\334\343
\001\017\311\110\377\060\016\006\003\125\035\017\001\001\377\004
\004\003\002\001\006\060\021\006\011\140\206\110\001\206\370\102
\001\001\004\004\003\002\000\007\060\015\006\011\052\206\110\206
\367\015\001\001\005\005\000\003\202\001\001\000\205\003\036\222
\161\366\102\257\341\243\141\236\353\363\300\017\362\245\324\332
\225\346\326\276\150\066\075\176\156\037\114\212\357\321\017\041
\155\136\245\122\143\316\022\370\357\052\332\157\353\067\376\023
\002\307\313\073\076\042\153\332\141\056\177\324\162\075\335\060
\341\036\114\100\031\214\017\327\234\321\203\060\173\230\131\334
\175\306\271\014\051\114\241\063\242\353\147\072\145\204\323\226
\342\355\166\105\160\217\265\053\336\371\043\326\111\156\074\024
\265\306\237\065\036\120\320\301\217\152\160\104\002\142\313\256
\035\150\101\247\252\127\350\123\252\007\322\006\366\325\024\006
\013\221\003\165\054\154\162\265\141\225\232\015\213\271\015\347
\365\337\124\315\336\346\330\326\011\010\227\143\345\301\056\260
\267\104\046\300\046\300\257\125\060\236\073\325\066\052\031\004
\364\134\036\377\317\054\267\377\320\375\207\100\021\325\021\043
\273\110\300\041\251\244\050\055\375\025\370\260\116\053\364\060
\133\041\374\021\221\064\276\101\357\173\235\227\165\377\227\225
\300\226\130\057\352\273\106\327\273\344\331\056
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Certigna"
Issuer: CN=Certigna,O=Dhimyotis,C=FR
Serial Number:00:fe:dc:e3:01:0f:c9:48:ff
Subject: CN=Certigna,O=Dhimyotis,C=FR
Not Valid Before: Fri Jun 29 15:13:05 2007
Not Valid After : Tue Jun 29 15:13:05 2027
Fingerprint (SHA-256):
E3:B6:A2:DB:2E:D7:CE:48:84:2F:7A:C5:32:41:C7:B7:1D:54:14:4B:FB:40:C1:1F:3F:1D:0B:42:F5:EE:A1:2D
Fingerprint (SHA1): B1:2E:13:63:45:86:A4:6F:1A:B2:60:68:37:58:2D:C4:AC:FD:94:97
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\261\056\023\143\105\206\244\157\032\262\140\150\067\130\055\304
\254\375\224\227
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\253\127\246\133\175\102\202\031\265\330\130\046\050\136\375\377
END
CKA_ISSUER MULTILINE_OCTAL
\060\064\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\021\060\017\006\003\125\004\003\014\010\103\145
\162\164\151\147\156\141
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\376\334\343\001\017\311\110\377
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "ePKI Root Certification Authority"
#
Issuer: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
Serial Number:15:c8:bd:65:47:5c:af:b8:97:00:5e:e4:06:d2:bc:9d
Subject: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
Not Valid Before: Mon Dec 20 02:31:27 2004
Not Valid After : Wed Dec 20 02:31:27 2034
Fingerprint (SHA-256):
C0:A6:F4:DC:63:A2:4B:FD:CF:54:EF:2A:6A:08:2A:0A:72:DE:35:80:3E:2F:F5:FF:52:7A:E5:D8:72:06:DF:D5
Fingerprint (SHA1): 67:65:0D:F1:7E:8E:7E:5B:82:40:A4:F4:56:4B:CF:E2:3D:69:C6:F0
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ePKI Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\136\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\052\060\050\006\003\125\004\013\014\041\145
\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171

END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\136\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\052\060\050\006\003\125\004\013\014\041\145
\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\025\310\275\145\107\134\257\270\227\000\136\344\006\322
\274\235
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\260\060\202\003\230\240\003\002\001\002\002\020\025
\310\275\145\107\134\257\270\227\000\136\344\006\322\274\235\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\136
\061\013\060\011\006\003\125\004\006\023\002\124\127\061\043\060
\041\006\003\125\004\012\014\032\103\150\165\156\147\150\167\141
\040\124\145\154\145\143\157\155\040\103\157\056\054\040\114\164
\144\056\061\052\060\050\006\003\125\004\013\014\041\145\120\113
\111\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\060\036
\027\015\060\064\061\062\062\060\060\062\063\061\062\067\132\027
\015\063\064\061\062\062\060\060\062\063\061\062\067\132\060\136
\061\013\060\011\006\003\125\004\006\023\002\124\127\061\043\060
\041\006\003\125\004\012\014\032\103\150\165\156\147\150\167\141
\040\124\145\154\145\143\157\155\040\103\157\056\054\040\114\164
\144\056\061\052\060\050\006\003\125\004\013\014\041\145\120\113
\111\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\060\202
\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\341
\045\017\356\215\333\210\063\165\147\315\255\037\175\072\116\155
\235\323\057\024\363\143\164\313\001\041\152\067\352\204\120\007
\113\046\133\011\103\154\041\236\152\310\325\003\365\140\151\217
\314\360\042\344\037\347\367\152\042\061\267\054\025\362\340\376
\000\152\103\377\207\145\306\265\032\301\247\114\155\042\160\041
\212\061\362\227\164\211\011\022\046\034\236\312\331\022\242\225
\074\332\351\147\277\010\240\144\343\326\102\267\105\357\227\364
\366\365\327\265\112\025\002\130\175\230\130\113\140\274\315\327
\015\232\023\063\123\321\141\371\172\325\327\170\263\232\063\367
\000\206\316\035\115\224\070\257\250\354\170\121\160\212\134\020
\203\121\041\367\021\075\064\206\136\345\110\315\227\201\202\065
\114\031\354\145\366\153\305\005\241\356\107\023\326\263\041\047
\224\020\012\331\044\073\272\276\104\023\106\060\077\227\074\330
\327\327\152\356\073\070\343\053\324\227\016\271\033\347\007\111

\177\067\052\371\167\170\317\124\355\133\106\235\243\200\016\221
\103\301\326\133\137\024\272\237\246\215\044\107\100\131\277\162
\070\262\066\154\067\377\231\321\135\016\131\012\253\151\367\300
\262\004\105\172\124\000\256\276\123\366\265\347\341\370\074\243
\061\322\251\376\041\122\144\305\246\147\360\165\007\006\224\024
\201\125\306\047\344\001\217\027\301\152\161\327\276\113\373\224
\130\175\176\021\063\261\102\367\142\154\030\326\317\011\150\076
\177\154\366\036\217\142\255\245\143\333\011\247\037\042\102\101
\036\157\231\212\076\327\371\077\100\172\171\260\245\001\222\322
\235\075\010\025\245\020\001\055\263\062\166\250\225\015\263\172
\232\373\007\020\170\021\157\341\217\307\272\017\045\032\164\052
\345\034\230\101\231\337\041\207\350\225\006\152\012\263\152\107
\166\145\366\072\317\217\142\027\031\173\012\050\315\032\322\203
\036\041\307\054\277\276\377\141\150\267\147\033\273\170\115\215
\316\147\345\344\301\216\267\043\146\342\235\220\165\064\230\251
\066\053\212\232\224\271\235\354\314\212\261\370\045\211\134\132
\266\057\214\037\155\171\044\247\122\150\303\204\065\342\146\215
\143\016\045\115\325\031\262\346\171\067\247\042\235\124\061\002
\003\001\000\001\243\152\060\150\060\035\006\003\125\035\016\004
\026\004\024\036\014\367\266\147\362\341\222\046\011\105\300\125
\071\056\167\077\102\112\242\060\014\006\003\125\035\023\004\005
\060\003\001\001\377\060\071\006\004\147\052\007\000\004\061\060
\057\060\055\002\001\000\060\011\006\005\053\016\003\002\032\005
\000\060\007\006\005\147\052\003\000\000\004\024\105\260\302\307
\012\126\174\356\133\170\014\225\371\030\123\301\246\034\330\020
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003
\202\002\001\000\011\263\203\123\131\001\076\225\111\271\361\201
\272\371\166\040\043\265\047\140\164\324\152\231\064\136\154\000
\123\331\237\362\246\261\044\007\104\152\052\306\245\216\170\022
\350\107\331\130\033\023\052\136\171\233\237\012\052\147\246\045
\077\006\151\126\163\303\212\146\110\373\051\201\127\164\006\312
\234\352\050\350\070\147\046\053\361\325\265\077\145\223\370\066
\135\216\215\215\100\040\207\031\352\357\047\300\075\264\071\017
\045\173\150\120\164\125\234\014\131\175\132\075\101\224\045\122
\010\340\107\054\025\061\031\325\277\007\125\306\273\022\265\227
\364\137\203\205\272\161\301\331\154\201\021\166\012\012\260\277
\202\227\367\352\075\372\372\354\055\251\050\224\073\126\335\322
\121\056\256\300\275\010\025\214\167\122\064\226\326\233\254\323
\035\216\141\017\065\173\233\256\071\151\013\142\140\100\040\066
\217\257\373\066\356\055\010\112\035\270\277\233\134\370\352\245
\033\240\163\246\330\370\156\340\063\004\137\150\252\047\207\355
\331\301\220\234\355\275\343\152\065\257\143\337\253\030\331\272
\346\351\112\352\120\212\017\141\223\036\342\055\031\342\060\224
\065\222\135\016\266\007\257\031\200\217\107\220\121\113\056\115
\335\205\342\322\012\122\012\027\232\374\032\260\120\002\345\001
\243\143\067\041\114\104\304\233\121\231\021\016\163\234\006\217
\124\056\247\050\136\104\071\207\126\055\067\275\205\104\224\341
\014\113\054\234\303\222\205\064\141\313\017\270\233\112\103\122

\376\064\072\175\270\351\051\334\166\251\310\060\370\024\161\200
\306\036\066\110\164\042\101\134\207\202\350\030\161\213\101\211
\104\347\176\130\133\250\270\215\023\351\247\154\303\107\355\263
\032\235\142\256\215\202\352\224\236\335\131\020\303\255\335\342
\115\343\061\325\307\354\350\362\260\376\222\036\026\012\032\374
\331\363\370\047\266\311\276\035\264\154\144\220\177\364\344\304
\133\327\067\256\102\016\335\244\032\157\174\210\124\305\026\156
\341\172\150\056\370\072\277\015\244\074\211\073\170\247\116\143
\203\004\041\010\147\215\362\202\111\320\133\375\261\315\017\203
\204\324\076\040\205\367\112\075\053\234\375\052\012\011\115\352
\201\370\021\234
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "ePKI Root Certification Authority"
Issuer: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
Serial Number:15:c8:bd:65:47:5c:af:b8:97:00:5e:e4:06:d2:bc:9d
Subject: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
Not Valid Before: Mon Dec 20 02:31:27 2004
Not Valid After : Wed Dec 20 02:31:27 2034
Fingerprint (SHA-256):
C0:A6:F4:DC:63:A2:4B:FD:CF:54:EF:2A:6A:08:2A:0A:72:DE:35:80:3E:2F:F5:FF:52:7A:E5:D8:72:06:DF:D5
Fingerprint (SHA1): 67:65:0D:F1:7E:8E:7E:5B:82:40:A4:F4:56:4B:CF:E2:3D:69:C6:F0
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ePKI Root Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\147\145\015\361\176\216\176\133\202\100\244\364\126\113\317\342
\075\151\306\360
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\033\056\000\312\046\006\220\075\255\376\157\025\150\323\153\263
END
CKA_ISSUER MULTILINE_OCTAL
\060\136\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\052\060\050\006\003\125\004\013\014\041\145
\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\025\310\275\145\107\134\257\270\227\000\136\344\006\322
\274\235

END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "certSIGN ROOT CA"
#
Issuer: OU=certSIGN ROOT CA,O=certSIGN,C=RO
Serial Number:20:06:05:16:70:02
Subject: OU=certSIGN ROOT CA,O=certSIGN,C=RO
Not Valid Before: Tue Jul 04 17:20:04 2006
Not Valid After : Fri Jul 04 17:20:04 2031
Fingerprint (SHA-256):
EA:A9:62:C4:FA:4A:6B:AF:EB:E4:15:19:6D:35:1C:CD:88:8D:4F:53:F3:FA:8A:E6:D7:C4:66:A9:4E:60:42:BB
Fingerprint (SHA1): FA:B7:EE:36:97:26:62:FB:2D:B0:2A:F6:BF:03:FD:E8:7C:4B:2F:9B
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN ROOT CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\122\117\061
\021\060\017\006\003\125\004\012\023\010\143\145\162\164\123\111
\107\116\061\031\060\027\006\003\125\004\013\023\020\143\145\162
\164\123\111\107\116\040\122\117\117\124\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\122\117\061
\021\060\017\006\003\125\004\012\023\010\143\145\162\164\123\111
\107\116\061\031\060\027\006\003\125\004\013\023\020\143\145\162
\164\123\111\107\116\040\122\117\117\124\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\006\040\006\005\026\160\002
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\070\060\202\002\040\240\003\002\001\002\002\006\040
\006\005\026\160\002\060\015\006\011\052\206\110\206\367\015\001
\001\005\005\000\060\073\061\013\060\011\006\003\125\004\006\023
\002\122\117\061\021\060\017\006\003\125\004\012\023\010\143\145
\162\164\123\111\107\116\061\031\060\027\006\003\125\004\013\023
\020\143\145\162\164\123\111\107\116\040\122\117\117\124\040\103
\101\060\036\027\015\060\066\060\067\060\064\061\067\062\060\060
\064\132\027\015\063\061\060\067\060\064\061\067\062\060\060\064

\132\060\073\061\013\060\011\006\003\125\004\006\023\002\122\117
\061\021\060\017\006\003\125\004\012\023\010\143\145\162\164\123
\111\107\116\061\031\060\027\006\003\125\004\013\023\020\143\145
\162\164\123\111\107\116\040\122\117\117\124\040\103\101\060\202
\001\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\001\017\000\060\202\001\012\002\202\001\001\000\267
\063\271\176\310\045\112\216\265\333\264\050\033\252\127\220\350
\321\042\323\144\272\323\223\350\324\254\206\141\100\152\140\127
\150\124\204\115\274\152\124\002\005\377\337\233\232\052\256\135
\007\217\112\303\050\177\357\373\053\372\171\361\307\255\360\020
\123\044\220\213\146\311\250\210\253\257\132\243\000\351\276\272
\106\356\133\163\173\054\027\202\201\136\142\054\241\002\145\263
\275\305\053\000\176\304\374\003\063\127\015\355\342\372\316\135
\105\326\070\315\065\266\262\301\320\234\201\112\252\344\262\001
\134\035\217\137\231\304\261\255\333\210\041\353\220\010\202\200
\363\060\243\103\346\220\202\256\125\050\111\355\133\327\251\020
\070\016\376\217\114\133\233\106\352\101\365\260\010\164\303\320
\210\063\266\174\327\164\337\334\204\321\103\016\165\071\241\045
\100\050\352\170\313\016\054\056\071\235\214\213\156\026\034\057
\046\202\020\342\343\145\224\012\004\300\136\367\135\133\370\020
\342\320\272\172\113\373\336\067\000\000\032\133\050\343\322\234
\163\076\062\207\230\241\311\121\057\327\336\254\063\263\117\002
\003\001\000\001\243\102\060\100\060\017\006\003\125\035\023\001
\001\377\004\005\060\003\001\001\377\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\001\306\060\035\006\003\125\035\016
\004\026\004\024\340\214\233\333\045\111\263\361\174\206\326\262
\102\207\013\320\153\240\331\344\060\015\006\011\052\206\110\206
\367\015\001\001\005\005\000\003\202\001\001\000\076\322\034\211
\056\065\374\370\165\335\346\177\145\210\364\162\114\311\054\327
\062\116\363\335\031\171\107\275\216\073\133\223\017\120\111\044
\023\153\024\006\162\357\011\323\241\241\343\100\204\311\347\030
\062\164\074\110\156\017\237\113\324\367\036\323\223\206\144\124
\227\143\162\120\325\125\317\372\040\223\002\242\233\303\043\223
\116\026\125\166\240\160\171\155\315\041\037\317\057\055\274\031
\343\210\061\370\131\032\201\011\310\227\246\164\307\140\304\133
\314\127\216\262\165\375\033\002\011\333\131\157\162\223\151\367
\061\101\326\210\070\277\207\262\275\026\171\371\252\344\276\210
\045\335\141\047\043\034\265\061\007\004\066\264\032\220\275\240
\164\161\120\211\155\274\024\343\017\206\256\361\253\076\307\240
\011\314\243\110\321\340\333\144\347\222\265\317\257\162\103\160
\213\371\303\204\074\023\252\176\222\233\127\123\223\372\160\302
\221\016\061\371\233\147\135\351\226\070\136\137\263\163\116\210
\025\147\336\236\166\020\142\040\276\125\151\225\103\000\071\115
\366\356\260\132\116\111\104\124\130\137\102\203
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "certSIGN ROOT CA"
Issuer: OU=certSIGN ROOT CA,O=certSIGN,C=RO
Serial Number:20:06:05:16:70:02
Subject: OU=certSIGN ROOT CA,O=certSIGN,C=RO
Not Valid Before: Tue Jul 04 17:20:04 2006
Not Valid After : Fri Jul 04 17:20:04 2031
Fingerprint (SHA-256):
EA:A9:62:C4:FA:4A:6B:AF:EB:E4:15:19:6D:35:1C:CD:88:8D:4F:53:F3:FA:8A:E6:D7:C4:66:A9:4E:60:42:BB
Fingerprint (SHA1): FA:B7:EE:36:97:26:62:FB:2D:B0:2A:F6:BF:03:FD:E8:7C:4B:2F:9B
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN ROOT CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\372\267\356\066\227\046\142\373\055\260\052\366\277\003\375\350
\174\113\057\233
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\030\230\300\326\351\072\374\371\260\365\014\367\113\001\104\027
END
CKA_ISSUER MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\122\117\061
\021\060\017\006\003\125\004\012\023\010\143\145\162\164\123\111
\107\116\061\031\060\027\006\003\125\004\013\023\020\143\145\162
\164\123\111\107\116\040\122\117\117\124\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\006\040\006\005\026\160\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "NetLock Arany (Class Gold) Ftanúsítvány"
#
Issuer: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification
Services),O=NetLock Kft.,L=Budapest,C=HU
Serial Number:49:41:2c:e4:00:10
Subject: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification
Services),O=NetLock Kft.,L=Budapest,C=HU
Not Valid Before: Thu Dec 11 15:08:21 2008
Not Valid After : Wed Dec 06 15:08:21 2028
Fingerprint (SHA-256):
6C:61:DA:C3:A2:DE:F0:31:50:6B:E0:36:D2:A6:FE:40:19:94:FB:D1:3D:F9:C8:D4:66:59:92:74:C4:46:EC:98

Fingerprint (SHA1): 06:08:3F:59:3F:15:A1:04:A0:69:A4:6B:A9:03:D0:06:B7:97:09:91
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NetLock Arany (Class Gold) Ftanúsítvány"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\247\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\025\060\023\006\003\125\004\012\014\014\116\145
\164\114\157\143\153\040\113\146\164\056\061\067\060\065\006\003
\125\004\013\014\056\124\141\156\303\272\163\303\255\164\166\303
\241\156\171\153\151\141\144\303\263\153\040\050\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\123\145\162\166\151\143
\145\163\051\061\065\060\063\006\003\125\004\003\014\054\116\145
\164\114\157\143\153\040\101\162\141\156\171\040\050\103\154\141
\163\163\040\107\157\154\144\051\040\106\305\221\164\141\156\303
\272\163\303\255\164\166\303\241\156\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\247\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\025\060\023\006\003\125\004\012\014\014\116\145
\164\114\157\143\153\040\113\146\164\056\061\067\060\065\006\003
\125\004\013\014\056\124\141\156\303\272\163\303\255\164\166\303
\241\156\171\153\151\141\144\303\263\153\040\050\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\123\145\162\166\151\143
\145\163\051\061\065\060\063\006\003\125\004\003\014\054\116\145
\164\114\157\143\153\040\101\162\141\156\171\040\050\103\154\141
\163\163\040\107\157\154\144\051\040\106\305\221\164\141\156\303
\272\163\303\255\164\166\303\241\156\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\006\111\101\054\344\000\020
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\025\060\202\002\375\240\003\002\001\002\002\006\111
\101\054\344\000\020\060\015\006\011\052\206\110\206\367\015\001
\001\013\005\000\060\201\247\061\013\060\011\006\003\125\004\006
\023\002\110\125\061\021\060\017\006\003\125\004\007\014\010\102
\165\144\141\160\145\163\164\061\025\060\023\006\003\125\004\012
\014\014\116\145\164\114\157\143\153\040\113\146\164\056\061\067
\060\065\006\003\125\004\013\014\056\124\141\156\303\272\163\303
\255\164\166\303\241\156\171\153\151\141\144\303\263\153\040\050
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145
\162\166\151\143\145\163\051\061\065\060\063\006\003\125\004\003

\014\054\116\145\164\114\157\143\153\040\101\162\141\156\171\040
\050\103\154\141\163\163\040\107\157\154\144\051\040\106\305\221
\164\141\156\303\272\163\303\255\164\166\303\241\156\171\060\036
\027\015\060\070\061\062\061\061\061\065\060\070\062\061\132\027
\015\062\070\061\062\060\066\061\065\060\070\062\061\132\060\201
\247\061\013\060\011\006\003\125\004\006\023\002\110\125\061\021
\060\017\006\003\125\004\007\014\010\102\165\144\141\160\145\163
\164\061\025\060\023\006\003\125\004\012\014\014\116\145\164\114
\157\143\153\040\113\146\164\056\061\067\060\065\006\003\125\004
\013\014\056\124\141\156\303\272\163\303\255\164\166\303\241\156
\171\153\151\141\144\303\263\153\040\050\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\123\145\162\166\151\143\145\163
\051\061\065\060\063\006\003\125\004\003\014\054\116\145\164\114
\157\143\153\040\101\162\141\156\171\040\050\103\154\141\163\163
\040\107\157\154\144\051\040\106\305\221\164\141\156\303\272\163
\303\255\164\166\303\241\156\171\060\202\001\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000
\060\202\001\012\002\202\001\001\000\304\044\136\163\276\113\155
\024\303\241\364\343\227\220\156\322\060\105\036\074\356\147\331
\144\340\032\212\177\312\060\312\203\343\040\301\343\364\072\323
\224\137\032\174\133\155\277\060\117\204\047\366\237\037\111\274
\306\231\012\220\362\017\365\177\103\204\067\143\121\213\172\245
\160\374\172\130\315\216\233\355\303\106\154\204\160\135\332\363
\001\220\043\374\116\060\251\176\341\047\143\347\355\144\074\240
\270\311\063\143\376\026\220\377\260\270\375\327\250\300\300\224
\103\013\266\325\131\246\236\126\320\044\037\160\171\257\333\071
\124\015\145\165\331\025\101\224\001\257\136\354\366\215\361\377
\255\144\376\040\232\327\134\353\376\246\037\010\144\243\213\166
\125\255\036\073\050\140\056\207\045\350\252\257\037\306\144\106
\040\267\160\177\074\336\110\333\226\123\267\071\167\344\032\342
\307\026\204\166\227\133\057\273\031\025\205\370\151\205\365\231
\247\251\362\064\247\251\266\246\003\374\157\206\075\124\174\166
\004\233\153\371\100\135\000\064\307\056\231\165\235\345\210\003
\252\115\370\003\322\102\166\300\033\002\003\000\250\213\243\105
\060\103\060\022\006\003\125\035\023\001\001\377\004\010\060\006
\001\001\377\002\001\004\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\035\006\003\125\035\016\004\026\004
\024\314\372\147\223\360\266\270\320\245\300\036\363\123\375\214
\123\337\203\327\226\060\015\006\011\052\206\110\206\367\015\001
\001\013\005\000\003\202\001\001\000\253\177\356\034\026\251\234
\074\121\000\240\300\021\010\005\247\231\346\157\001\210\124\141
\156\361\271\030\255\112\255\376\201\100\043\224\057\373\165\174
\057\050\113\142\044\201\202\013\365\141\361\034\156\270\141\070
\353\201\372\142\241\073\132\142\323\224\145\304\341\346\155\202
\370\057\045\160\262\041\046\301\162\121\037\214\054\303\204\220
\303\132\217\272\317\364\247\145\245\353\230\321\373\005\262\106
\165\025\043\152\157\205\143\060\200\360\325\236\037\051\034\302
\154\260\120\131\135\220\133\073\250\015\060\317\277\175\177\316

\361\235\203\275\311\106\156\040\246\371\141\121\272\041\057\173
\276\245\025\143\241\324\225\207\361\236\271\363\211\363\075\205
\270\270\333\276\265\271\051\371\332\067\005\000\111\224\003\204
\104\347\277\103\061\317\165\213\045\321\364\246\144\365\222\366
\253\005\353\075\351\245\013\066\142\332\314\006\137\066\213\266
\136\061\270\052\373\136\366\161\337\104\046\236\304\346\015\221
\264\056\165\225\200\121\152\113\060\246\260\142\241\223\361\233
\330\316\304\143\165\077\131\107\261
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "NetLock Arany (Class Gold) Ftanúsítvány"
Issuer: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification
Services),O=NetLock Kft.,L=Budapest,C=HU
Serial Number:49:41:2c:e4:00:10
Subject: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification
Services),O=NetLock Kft.,L=Budapest,C=HU
Not Valid Before: Thu Dec 11 15:08:21 2008
Not Valid After : Wed Dec 06 15:08:21 2028
Fingerprint (SHA-256):
6C:61:DA:C3:A2:DE:F0:31:50:6B:E0:36:D2:A6:FE:40:19:94:FB:D1:3D:F9:C8:D4:66:59:92:74:C4:46:EC:98
Fingerprint (SHA1): 06:08:3F:59:3F:15:A1:04:A0:69:A4:6B:A9:03:D0:06:B7:97:09:91
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NetLock Arany (Class Gold) Ftanúsítvány"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\006\010\077\131\077\025\241\004\240\151\244\153\251\003\320\006
\267\227\011\221
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\305\241\267\377\163\335\326\327\064\062\030\337\374\074\255\210
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\247\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\025\060\023\006\003\125\004\012\014\014\116\145
\164\114\157\143\153\040\113\146\164\056\061\067\060\065\006\003
\125\004\013\014\056\124\141\156\303\272\163\303\255\164\166\303
\241\156\171\153\151\141\144\303\263\153\040\050\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\123\145\162\166\151\143
\145\163\051\061\065\060\063\006\003\125\004\003\014\054\116\145
\164\114\157\143\153\040\101\162\141\156\171\040\050\103\154\141
\163\163\040\107\157\154\144\051\040\106\305\221\164\141\156\303
\272\163\303\255\164\166\303\241\156\171

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\006\111\101\054\344\000\020
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Hongkong Post Root CA 1"
#
Issuer: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
Serial Number: 1000 (0x3e8)
Subject: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
Not Valid Before: Thu May 15 05:13:14 2003
Not Valid After : Mon May 15 04:52:29 2023
Fingerprint (SHA-256):
F9:E6:7D:33:6C:51:00:2A:C0:54:C6:32:02:2D:66:DD:A2:E7:E3:FF:F1:0A:D0:61:ED:31:D8:BB:B4:10:CF:B2
Fingerprint (SHA1): D6:DA:A8:20:8D:09:D2:15:4D:24:B5:2F:CB:34:6E:B2:58:B2:8A:58
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\110\113\061
\026\060\024\006\003\125\004\012\023\015\110\157\156\147\153\157
\156\147\040\120\157\163\164\061\040\060\036\006\003\125\004\003
\023\027\110\157\156\147\153\157\156\147\040\120\157\163\164\040
\122\157\157\164\040\103\101\040\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\110\113\061
\026\060\024\006\003\125\004\012\023\015\110\157\156\147\153\157
\156\147\040\120\157\163\164\061\040\060\036\006\003\125\004\003
\023\027\110\157\156\147\153\157\156\147\040\120\157\163\164\040
\122\157\157\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\003\350
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\060\060\202\002\030\240\003\002\001\002\002\002\003
\350\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000
\060\107\061\013\060\011\006\003\125\004\006\023\002\110\113\061

\026\060\024\006\003\125\004\012\023\015\110\157\156\147\153\157
\156\147\040\120\157\163\164\061\040\060\036\006\003\125\004\003
\023\027\110\157\156\147\153\157\156\147\040\120\157\163\164\040
\122\157\157\164\040\103\101\040\061\060\036\027\015\060\063\060
\065\061\065\060\065\061\063\061\064\132\027\015\062\063\060\065
\061\065\060\064\065\062\062\071\132\060\107\061\013\060\011\006
\003\125\004\006\023\002\110\113\061\026\060\024\006\003\125\004
\012\023\015\110\157\156\147\153\157\156\147\040\120\157\163\164
\061\040\060\036\006\003\125\004\003\023\027\110\157\156\147\153
\157\156\147\040\120\157\163\164\040\122\157\157\164\040\103\101
\040\061\060\202\001\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202
\001\001\000\254\377\070\266\351\146\002\111\343\242\264\341\220
\371\100\217\171\371\342\275\171\376\002\275\356\044\222\035\042
\366\332\205\162\151\376\327\077\011\324\335\221\265\002\234\320
\215\132\341\125\303\120\206\271\051\046\302\343\331\240\361\151
\003\050\040\200\105\042\055\126\247\073\124\225\126\042\131\037
\050\337\037\040\075\155\242\066\276\043\240\261\156\265\261\047
\077\071\123\011\352\253\152\350\164\262\302\145\134\216\277\174
\303\170\204\315\236\026\374\365\056\117\040\052\010\237\167\363
\305\036\304\232\122\146\036\110\136\343\020\006\217\042\230\341
\145\216\033\135\043\146\073\270\245\062\121\310\206\252\241\251
\236\177\166\224\302\246\154\267\101\360\325\310\006\070\346\324
\014\342\363\073\114\155\120\214\304\203\047\301\023\204\131\075
\236\165\164\266\330\002\136\072\220\172\300\102\066\162\354\152
\115\334\357\304\000\337\023\030\127\137\046\170\310\326\012\171
\167\277\367\257\267\166\271\245\013\204\027\135\020\352\157\341
\253\225\021\137\155\074\243\134\115\203\133\362\263\031\212\200
\213\013\207\002\003\001\000\001\243\046\060\044\060\022\006\003
\125\035\023\001\001\377\004\010\060\006\001\001\377\002\001\003
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\306
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003
\202\001\001\000\016\106\325\074\256\342\207\331\136\201\213\002
\230\101\010\214\114\274\332\333\356\047\033\202\347\152\105\354
\026\213\117\205\240\363\262\160\275\132\226\272\312\156\155\356
\106\213\156\347\052\056\226\263\031\063\353\264\237\250\262\067
\356\230\250\227\266\056\266\147\047\324\246\111\375\034\223\145
\166\236\102\057\334\042\154\232\117\362\132\025\071\261\161\327
\053\121\350\155\034\230\300\331\052\364\241\202\173\325\311\101
\242\043\001\164\070\125\213\017\271\056\147\242\040\004\067\332
\234\013\323\027\041\340\217\227\171\064\157\204\110\002\040\063
\033\346\064\104\237\221\160\364\200\136\204\103\302\051\322\154
\022\024\344\141\215\254\020\220\236\204\120\273\360\226\157\105
\237\212\363\312\154\117\372\021\072\025\025\106\303\315\037\203
\133\055\101\022\355\120\147\101\023\075\041\253\224\212\252\116
\174\301\261\373\247\326\265\047\057\227\253\156\340\035\342\321
\034\054\037\104\342\374\276\221\241\234\373\326\051\123\163\206
\237\123\330\103\016\135\326\143\202\161\035\200\164\312\366\342

\002\153\331\132
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Hongkong Post Root CA 1"
Issuer: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
Serial Number: 1000 (0x3e8)
Subject: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
Not Valid Before: Thu May 15 05:13:14 2003
Not Valid After : Mon May 15 04:52:29 2023
Fingerprint (SHA-256):
F9:E6:7D:33:6C:51:00:2A:C0:54:C6:32:02:2D:66:DD:A2:E7:E3:FF:F1:0A:D0:61:ED:31:D8:BB:B4:10:CF:B2
Fingerprint (SHA1): D6:DA:A8:20:8D:09:D2:15:4D:24:B5:2F:CB:34:6E:B2:58:B2:8A:58
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\326\332\250\040\215\011\322\025\115\044\265\057\313\064\156\262
\130\262\212\130
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\250\015\157\071\170\271\103\155\167\102\155\230\132\314\043\312
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\110\113\061
\026\060\024\006\003\125\004\012\023\015\110\157\156\147\153\157
\156\147\040\120\157\163\164\061\040\060\036\006\003\125\004\003
\023\027\110\157\156\147\153\157\156\147\040\120\157\163\164\040
\122\157\157\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\003\350
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "SecureSign RootCA11"
#
Issuer: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
Serial Number: 1 (0x1)
Subject: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP

Not Valid Before: Wed Apr 08 04:56:47 2009
Not Valid After : Sun Apr 08 04:56:47 2029
Fingerprint (SHA-256):
BF:0F:EE:FB:9E:3A:58:1A:D5:F9:E9:DB:75:89:98:57:43:D2:61:08:5C:4D:31:4F:6F:5D:72:59:AA:42:16:12
Fingerprint (SHA1): 3B:C4:9F:48:F8:F3:73:A0:9C:1E:BD:F8:5B:B1:C3:65:C7:D8:11:B3
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureSign RootCA11"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\053\060\051\006\003\125\004\012\023\042\112\141\160\141\156\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145
\162\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032
\006\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147
\156\040\122\157\157\164\103\101\061\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\053\060\051\006\003\125\004\012\023\042\112\141\160\141\156\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145
\162\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032
\006\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147
\156\040\122\157\157\164\103\101\061\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\155\060\202\002\125\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\130\061\013\060\011\006\003\125\004\006\023\002\112\120\061\053
\060\051\006\003\125\004\012\023\042\112\141\160\141\156\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145\162
\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032\006
\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147\156
\040\122\157\157\164\103\101\061\061\060\036\027\015\060\071\060
\064\060\070\060\064\065\066\064\067\132\027\015\062\071\060\064
\060\070\060\064\065\066\064\067\132\060\130\061\013\060\011\006
\003\125\004\006\023\002\112\120\061\053\060\051\006\003\125\004
\012\023\042\112\141\160\141\156\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\123\145\162\166\151\143\145\163\054
\040\111\156\143\056\061\034\060\032\006\003\125\004\003\023\023
\123\145\143\165\162\145\123\151\147\156\040\122\157\157\164\103
\101\061\061\060\202\001\042\060\015\006\011\052\206\110\206\367

\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002
\202\001\001\000\375\167\252\245\034\220\005\073\313\114\233\063
\213\132\024\105\244\347\220\026\321\337\127\322\041\020\244\027
\375\337\254\326\037\247\344\333\174\367\354\337\270\003\332\224
\130\375\135\162\174\214\077\137\001\147\164\025\226\343\002\074
\207\333\256\313\001\216\302\363\146\306\205\105\364\002\306\072
\265\142\262\257\372\234\277\244\346\324\200\060\230\363\015\266
\223\217\251\324\330\066\362\260\374\212\312\054\241\025\063\225
\061\332\300\033\362\356\142\231\206\143\077\277\335\223\052\203
\250\166\271\023\037\267\316\116\102\205\217\042\347\056\032\362
\225\011\262\005\265\104\116\167\241\040\275\251\362\116\012\175
\120\255\365\005\015\105\117\106\161\375\050\076\123\373\004\330
\055\327\145\035\112\033\372\317\073\260\061\232\065\156\310\213
\006\323\000\221\362\224\010\145\114\261\064\006\000\172\211\342
\360\307\003\131\317\325\326\350\247\062\263\346\230\100\206\305
\315\047\022\213\314\173\316\267\021\074\142\140\007\043\076\053
\100\156\224\200\011\155\266\263\157\167\157\065\010\120\373\002
\207\305\076\211\002\003\001\000\001\243\102\060\100\060\035\006
\003\125\035\016\004\026\004\024\133\370\115\117\262\245\206\324
\072\322\361\143\232\240\276\011\366\127\267\336\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\006\060\017\006\003
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\015\006
\011\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001
\000\240\241\070\026\146\056\247\126\037\041\234\006\372\035\355
\271\042\305\070\046\330\116\117\354\243\177\171\336\106\041\241
\207\167\217\007\010\232\262\244\305\257\017\062\230\013\174\146
\051\266\233\175\045\122\111\103\253\114\056\053\156\172\160\257
\026\016\343\002\154\373\102\346\030\235\105\330\125\310\350\073
\335\347\341\364\056\013\034\064\134\154\130\112\373\214\210\120
\137\225\034\277\355\253\042\265\145\263\205\272\236\017\270\255
\345\172\033\212\120\072\035\275\015\274\173\124\120\013\271\102
\257\125\240\030\201\255\145\231\357\276\344\234\277\304\205\253
\101\262\124\157\334\045\315\355\170\342\216\014\215\011\111\335
\143\173\132\151\226\002\041\250\275\122\131\351\175\065\313\310
\122\312\177\201\376\331\153\323\367\021\355\045\337\370\347\371
\244\372\162\227\204\123\015\245\320\062\030\121\166\131\024\154
\017\353\354\137\200\214\165\103\203\303\205\230\377\114\236\055
\015\344\167\203\223\116\265\226\007\213\050\023\233\214\031\215
\101\047\111\100\356\336\346\043\104\071\334\241\042\326\272\003
\362
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "SecureSign RootCA11"
Issuer: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
Serial Number: 1 (0x1)

Subject: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
Not Valid Before: Wed Apr 08 04:56:47 2009
Not Valid After : Sun Apr 08 04:56:47 2029
Fingerprint (SHA-256):
BF:0F:EE:FB:9E:3A:58:1A:D5:F9:E9:DB:75:89:98:57:43:D2:61:08:5C:4D:31:4F:6F:5D:72:59:AA:42:16:12
Fingerprint (SHA1): 3B:C4:9F:48:F8:F3:73:A0:9C:1E:BD:F8:5B:B1:C3:65:C7:D8:11:B3
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureSign RootCA11"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\073\304\237\110\370\363\163\240\234\036\275\370\133\261\303\145
\307\330\021\263
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\267\122\164\342\222\264\200\223\362\165\344\314\327\362\352\046
END
CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\053\060\051\006\003\125\004\012\023\042\112\141\160\141\156\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145
\162\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032
\006\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147
\156\040\122\157\157\164\103\101\061\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Microsec e-Szigno Root CA 2009"
#
Issuer: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
Serial Number:00:c2:7e:43:04:4e:47:3f:19
Subject: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
Not Valid Before: Tue Jun 16 11:30:18 2009
Not Valid After : Sun Dec 30 11:30:18 2029
Fingerprint (SHA-256):
3C:5F:81:FE:A5:FA:B8:2C:64:BF:A2:EA:EC:AF:CD:E8:E0:77:FC:86:20:A7:CA:E5:37:16:3D:F3:6E:DB:F3:78
Fingerprint (SHA1): 89:DF:74:FE:5C:F4:0F:4A:80:F9:E3:37:7D:54:DA:91:E1:01:31:8E
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsec e-Szigno Root CA 2009"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\026\060\024\006\003\125\004\012\014\015\115\151
\143\162\157\163\145\143\040\114\164\144\056\061\047\060\045\006
\003\125\004\003\014\036\115\151\143\162\157\163\145\143\040\145
\055\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040
\062\060\060\071\061\037\060\035\006\011\052\206\110\206\367\015
\001\011\001\026\020\151\156\146\157\100\145\055\163\172\151\147
\156\157\056\150\165
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\026\060\024\006\003\125\004\012\014\015\115\151
\143\162\157\163\145\143\040\114\164\144\056\061\047\060\045\006
\003\125\004\003\014\036\115\151\143\162\157\163\145\143\040\145
\055\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040
\062\060\060\071\061\037\060\035\006\011\052\206\110\206\367\015
\001\011\001\026\020\151\156\146\157\100\145\055\163\172\151\147
\156\157\056\150\165
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\302\176\103\004\116\107\077\031
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\012\060\202\002\362\240\003\002\001\002\002\011\000
\302\176\103\004\116\107\077\031\060\015\006\011\052\206\110\206
\367\015\001\001\013\005\000\060\201\202\061\013\060\011\006\003
\125\004\006\023\002\110\125\061\021\060\017\006\003\125\004\007
\014\010\102\165\144\141\160\145\163\164\061\026\060\024\006\003
\125\004\012\014\015\115\151\143\162\157\163\145\143\040\114\164
\144\056\061\047\060\045\006\003\125\004\003\014\036\115\151\143
\162\157\163\145\143\040\145\055\123\172\151\147\156\157\040\122
\157\157\164\040\103\101\040\062\060\060\071\061\037\060\035\006
\011\052\206\110\206\367\015\001\011\001\026\020\151\156\146\157
\100\145\055\163\172\151\147\156\157\056\150\165\060\036\027\015
\060\071\060\066\061\066\061\061\063\060\061\070\132\027\015\062
\071\061\062\063\060\061\061\063\060\061\070\132\060\201\202\061
\013\060\011\006\003\125\004\006\023\002\110\125\061\021\060\017
\006\003\125\004\007\014\010\102\165\144\141\160\145\163\164\061
\026\060\024\006\003\125\004\012\014\015\115\151\143\162\157\163
\145\143\040\114\164\144\056\061\047\060\045\006\003\125\004\003
\014\036\115\151\143\162\157\163\145\143\040\145\055\123\172\151

\147\156\157\040\122\157\157\164\040\103\101\040\062\060\060\071
\061\037\060\035\006\011\052\206\110\206\367\015\001\011\001\026
\020\151\156\146\157\100\145\055\163\172\151\147\156\157\056\150
\165\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001
\001\000\351\370\217\363\143\255\332\206\330\247\340\102\373\317
\221\336\246\046\370\231\245\143\160\255\233\256\312\063\100\175
\155\226\156\241\016\104\356\341\023\235\224\102\122\232\275\165
\205\164\054\250\016\035\223\266\030\267\214\054\250\317\373\134
\161\271\332\354\376\350\176\217\344\057\035\262\250\165\207\330
\267\241\345\073\317\231\112\106\320\203\031\175\300\241\022\034
\225\155\112\364\330\307\245\115\063\056\205\071\100\165\176\024
\174\200\022\230\120\307\101\147\270\240\200\141\124\246\154\116
\037\340\235\016\007\351\311\272\063\347\376\300\125\050\054\002
\200\247\031\365\236\334\125\123\003\227\173\007\110\377\231\373
\067\212\044\304\131\314\120\020\143\216\252\251\032\260\204\032
\206\371\137\273\261\120\156\244\321\012\314\325\161\176\037\247
\033\174\365\123\156\042\137\313\053\346\324\174\135\256\326\302
\306\114\345\005\001\331\355\127\374\301\043\171\374\372\310\044
\203\225\363\265\152\121\001\320\167\326\351\022\241\371\032\203
\373\202\033\271\260\227\364\166\006\063\103\111\240\377\013\265
\372\265\002\003\001\000\001\243\201\200\060\176\060\017\006\003
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\035\006
\003\125\035\016\004\026\004\024\313\017\306\337\102\103\314\075
\313\265\110\043\241\032\172\246\052\273\064\150\060\037\006\003
\125\035\043\004\030\060\026\200\024\313\017\306\337\102\103\314
\075\313\265\110\043\241\032\172\246\052\273\064\150\060\033\006
\003\125\035\021\004\024\060\022\201\020\151\156\146\157\100\145
\055\163\172\151\147\156\157\056\150\165\060\015\006\011\052\206
\110\206\367\015\001\001\013\005\000\003\202\001\001\000\311\321
\016\136\056\325\314\263\174\076\313\374\075\377\015\050\225\223
\004\310\277\332\315\171\270\103\220\360\244\276\357\362\357\041
\230\274\324\324\135\006\366\356\102\354\060\154\240\252\251\312
\361\257\212\372\077\013\163\152\076\352\056\100\176\037\256\124
\141\171\353\056\010\067\327\043\363\214\237\276\035\261\341\244
\165\333\240\342\124\024\261\272\034\051\244\030\366\022\272\242
\024\024\343\061\065\310\100\377\267\340\005\166\127\301\034\131
\362\370\277\344\355\045\142\134\204\360\176\176\037\263\276\371
\267\041\021\314\003\001\126\160\247\020\222\036\033\064\201\036
\255\234\032\303\004\074\355\002\141\326\036\006\363\137\072\207
\362\053\361\105\207\345\075\254\321\307\127\204\275\153\256\334
\330\371\266\033\142\160\013\075\066\311\102\362\062\327\172\141
\346\322\333\075\317\310\251\311\233\334\333\130\104\327\157\070
\257\177\170\323\243\255\032\165\272\034\301\066\174\217\036\155
\034\303\165\106\256\065\005\246\366\134\075\041\356\126\360\311
\202\042\055\172\124\253\160\303\175\042\145\202\160\226
END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Microsec e-Szigno Root CA 2009"
# Issuer: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Serial Number:00:c2:7e:43:04:4e:47:3f:19
# Subject: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Not Valid Before: Tue Jun 16 11:30:18 2009
# Not Valid After : Sun Dec 30 11:30:18 2029
# Fingerprint (SHA-256):
3C:5F:81:FE:A5:FA:B8:2C:64:BF:A2:EA:EC:AF:CD:E8:E0:77:FC:86:20:A7:CA:E5:37:16:3D:F3:6E:DB:F3:78
# Fingerprint (SHA1): 89:DF:74:FE:5C:F4:0F:4A:80:F9:E3:37:7D:54:DA:91:E1:01:31:8E
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsec e-Szigno Root CA 2009"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\211\337\164\376\134\364\017\112\200\371\343\067\175\124\332\221
\341\001\061\216
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\370\111\364\003\274\104\055\203\276\110\151\175\051\144\374\261
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\026\060\024\006\003\125\004\012\014\015\115\151
\143\162\157\163\145\143\040\114\164\144\056\061\047\060\045\006
\003\125\004\003\014\036\115\151\143\162\157\163\145\143\040\145
\055\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040
\062\060\060\071\061\037\060\035\006\011\052\206\110\206\367\015
\001\011\001\026\020\151\156\146\157\100\145\055\163\172\151\147
\156\157\056\150\165
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\302\176\103\004\116\107\077\031
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "GlobalSign Root CA - R3"
#
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
```

Serial Number:04:00:00:00:00:01:21:58:53:08:a2
Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
Not Valid Before: Wed Mar 18 10:00:00 2009
Not Valid After : Sun Mar 18 10:00:00 2029
Fingerprint (SHA-256):
CB:B5:22:D7:B7:F1:27:AD:6A:01:13:86:5B:DF:1C:D4:10:2E:7D:07:59:AF:63:5A:7C:F4:72:0D:C9:63:C5:3B
Fingerprint (SHA1): D6:9B:56:11:48:F0:1C:77:C5:45:78:C1:09:26:DF:5B:85:69:76:AD
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\063\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\063\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\041\130\123\010\242
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\137\060\202\002\107\240\003\002\001\002\002\013\004
\000\000\000\000\001\041\130\123\010\242\060\015\006\011\052\206
\110\206\367\015\001\001\013\005\000\060\114\061\040\060\036\006
\003\125\004\013\023\027\107\154\157\142\141\154\123\151\147\156
\040\122\157\157\164\040\103\101\040\055\040\122\063\061\023\060
\021\006\003\125\004\012\023\012\107\154\157\142\141\154\123\151
\147\156\061\023\060\021\006\003\125\004\003\023\012\107\154\157
\142\141\154\123\151\147\156\060\036\027\015\060\071\060\063\061
\070\061\060\060\060\060\060\132\027\015\062\071\060\063\061\070
\061\060\060\060\060\060\132\060\114\061\040\060\036\006\003\125
\004\013\023\027\107\154\157\142\141\154\123\151\147\156\040\122
\157\157\164\040\103\101\040\055\040\122\063\061\023\060\021\006
\003\125\004\012\023\012\107\154\157\142\141\154\123\151\147\156
\061\023\060\021\006\003\125\004\003\023\012\107\154\157\142\141
\154\123\151\147\156\060\202\001\042\060\015\006\011\052\206\110
\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001

\012\002\202\001\001\000\314\045\166\220\171\006\170\042\026\365
\300\203\266\204\312\050\236\375\005\166\021\305\255\210\162\374
\106\002\103\307\262\212\235\004\137\044\313\056\113\341\140\202
\106\341\122\253\014\201\107\160\154\335\144\321\353\365\054\243
\017\202\075\014\053\256\227\327\266\024\206\020\171\273\073\023
\200\167\214\010\341\111\322\152\142\057\037\136\372\226\150\337
\211\047\225\070\237\006\327\076\311\313\046\131\015\163\336\260
\310\351\046\016\203\025\306\357\133\213\322\004\140\312\111\246
\050\366\151\073\366\313\310\050\221\345\235\212\141\127\067\254
\164\024\334\164\340\072\356\162\057\056\234\373\320\273\277\365
\075\000\341\006\063\350\202\053\256\123\246\072\026\163\214\335
\101\016\040\072\300\264\247\241\351\262\117\220\056\062\140\351
\127\313\271\004\222\150\150\345\070\046\140\165\262\237\167\377
\221\024\357\256\040\111\374\255\100\025\110\321\002\061\141\031
\136\270\227\357\255\167\267\144\232\172\277\137\301\023\357\233
\142\373\015\154\340\124\151\026\251\003\332\156\351\203\223\161
\166\306\151\205\202\027\002\003\001\000\001\243\102\060\100\060
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\035\006\003\125\035\016\004\026\004\024\217\360\113\177\250
\056\105\044\256\115\120\372\143\232\213\336\342\335\033\274\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202
\001\001\000\113\100\333\300\120\252\376\310\014\357\367\226\124
\105\111\273\226\000\011\101\254\263\023\206\206\050\007\063\312
\153\346\164\271\272\000\055\256\244\012\323\365\361\361\017\212
\277\163\147\112\203\307\104\173\170\340\257\156\154\157\003\051
\216\063\071\105\303\216\344\271\127\154\252\374\022\226\354\123
\306\055\344\044\154\271\224\143\373\334\123\150\147\126\076\203
\270\317\065\041\303\311\150\376\316\332\302\123\252\314\220\212
\351\360\135\106\214\225\335\172\130\050\032\057\035\336\315\000
\067\101\217\355\104\155\327\123\050\227\176\363\147\004\036\025
\327\212\226\264\323\336\114\047\244\114\033\163\163\166\364\027
\231\302\037\172\016\343\055\010\255\012\034\054\377\074\253\125
\016\017\221\176\066\353\303\127\111\276\341\056\055\174\140\213
\303\101\121\023\043\235\316\367\062\153\224\001\250\231\347\054
\063\037\072\073\045\322\206\100\316\073\054\206\170\311\141\057
\024\272\356\333\125\157\337\204\356\005\011\115\275\050\330\162
\316\323\142\120\145\036\353\222\227\203\061\331\263\265\312\107
\130\077\137
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "GlobalSign Root CA - R3"
Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
Serial Number:04:00:00:00:00:01:21:58:53:08:a2
Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3

Not Valid Before: Wed Mar 18 10:00:00 2009
Not Valid After : Sun Mar 18 10:00:00 2029
Fingerprint (SHA-256):
CB:B5:22:D7:B7:F1:27:AD:6A:01:13:86:5B:DF:1C:D4:10:2E:7D:07:59:AF:63:5A:7C:F4:72:0D:C9:63:C5:3B
Fingerprint (SHA1): D6:9B:56:11:48:F0:1C:77:C5:45:78:C1:09:26:DF:5B:85:69:76:AD
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\326\233\126\021\110\360\034\167\305\105\170\301\011\046\337\133
\205\151\166\255
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\305\337\270\111\312\005\023\125\356\055\272\032\303\076\260\050
END
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\063\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\041\130\123\010\242
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Autoridad de Certificacion Firmaprofesional CIF A62634068"
#
Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
Serial Number:53:ec:3b:ee:fb:b2:48:5f
Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
Not Valid Before: Wed May 20 08:38:15 2009
Not Valid After : Tue Dec 31 08:38:15 2030
Fingerprint (SHA-256):
04:04:80:28:BF:1F:28:64:D4:8F:9A:D4:D8:32:94:36:6A:82:88:56:55:3F:3B:14:30:3F:90:14:7F:5D:40:EF
Fingerprint (SHA1): AE:C5:FB:3F:C8:E1:BF:C4:E5:4F:03:07:5A:9A:E8:00:B7:F7:B6:FA
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151
\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064
\060\066\070
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151
\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064
\060\066\070
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\123\354\073\356\373\262\110\137
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\024\060\202\003\374\240\003\002\001\002\002\010\123
\354\073\356\373\262\110\137\060\015\006\011\052\206\110\206\367
\015\001\001\005\005\000\060\121\061\013\060\011\006\003\125\004
\006\023\002\105\123\061\102\060\100\006\003\125\004\003\014\071
\101\165\164\157\162\151\144\141\144\040\144\145\040\103\145\162
\164\151\146\151\143\141\143\151\157\156\040\106\151\162\155\141
\160\162\157\146\145\163\151\157\156\141\154\040\103\111\106\040
\101\066\062\066\063\064\060\066\070\060\036\027\015\060\071\060
\065\062\060\060\070\063\070\061\065\132\027\015\063\060\061\062
\063\061\060\070\063\070\061\065\132\060\121\061\013\060\011\006
\003\125\004\006\023\002\105\123\061\102\060\100\006\003\125\004
\003\014\071\101\165\164\157\162\151\144\141\144\040\144\145\040
\103\145\162\164\151\146\151\143\141\143\151\157\156\040\106\151
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\355\150\216\222\022\312\135\374\326\053\262\222\074\040\317\341
\137\257\040\276\240\166\177\166\345\354\032\206\141\063\076\347
\173\264\077\240\017\216\242\271\152\157\271\207\046\157\101\154
\210\246\120\375\152\143\013\365\223\026\033\031\217\262\355\233
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\050\217\061\131\133\323\311\002\246\264\122\312\156\227\373\103
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\070\036\202\053\377\047\145\257\373\026\025\304\056\161\204\345
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\077\045\263\071\334\143\052\220\153\040\137\304\122\022\116\227
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\146\247\236\045\017\351\013\063\221\145\012\132\303\331\124\022
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\145\301\160\201\270\070\374\103\061\262\366\003\064\107\262\254
\373\042\006\313\036\335\027\107\034\137\146\271\323\032\242\332
\021\261\244\274\043\311\344\276\207\377\271\224\266\370\135\040
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\316\064\140\250\100\361\363\074\244\303\050\043\214\376\047\063
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\156\117\022\176\012\074\235\225
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Autoridad de Certificacion Firmaprofesional CIF A62634068"
Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
Serial Number:53:ec:3b:ee:fb:b2:48:5f
Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
Not Valid Before: Wed May 20 08:38:15 2009
Not Valid After : Tue Dec 31 08:38:15 2030
Fingerprint (SHA-256):
04:04:80:28:BF:1F:28:64:D4:8F:9A:D4:D8:32:94:36:6A:82:88:56:55:3F:3B:14:30:3F:90:14:7F:5D:40:EF
Fingerprint (SHA1): AE:C5:FB:3F:C8:E1:BF:C4:E5:4F:03:07:5A:9A:E8:00:B7:F7:B6:FA
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\256\305\373\077\310\341\277\304\345\117\003\007\132\232\350\000
\267\367\266\372
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL

\163\072\164\172\354\273\243\226\246\302\344\342\310\233\300\303
END
CKA_ISSUER MULTILINE_OCTAL
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\102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151
\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064
\060\066\070
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\123\354\073\356\373\262\110\137
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CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Izenpe.com"
#
Issuer: CN=Izenpe.com,O=IZENPE S.A.,C=ES
Serial Number:00:b0:b7:5a:16:48:5f:bf:e1:cb:f5:8b:d7:19:e6:7d
Subject: CN=Izenpe.com,O=IZENPE S.A.,C=ES
Not Valid Before: Thu Dec 13 13:08:28 2007
Not Valid After : Sun Dec 13 08:27:25 2037
Fingerprint (SHA-256):
25:30:CC:8E:98:32:15:02:BA:D9:6F:9B:1F:BA:1B:09:9E:2D:29:9E:0F:45:48:BB:91:4F:36:3B:C0:D4:53:1F
Fingerprint (SHA1): 2F:78:3D:25:52:18:A7:4A:65:39:71:B5:2C:A2:9C:45:15:6F:E9:19
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Izenpe.com"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\070\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\024\060\022\006\003\125\004\012\014\013\111\132\105\116\120\105
\040\123\056\101\056\061\023\060\021\006\003\125\004\003\014\012
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END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\070\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\024\060\022\006\003\125\004\012\014\013\111\132\105\116\120\105
\040\123\056\101\056\061\023\060\021\006\003\125\004\003\014\012
\111\172\145\156\160\145\056\143\157\155
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
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\346\175
END
CKA_VALUE MULTILINE_OCTAL
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\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\070
\061\013\060\011\006\003\125\004\006\023\002\105\123\061\024\060
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\145\156\160\145\056\143\157\155\060\036\027\015\060\067\061\062
\061\063\061\063\060\070\062\070\132\027\015\063\067\061\062\061
\063\060\070\062\067\062\065\132\060\070\061\013\060\011\006\003
\125\004\006\023\002\105\123\061\024\060\022\006\003\125\004\012
\014\013\111\132\105\116\120\105\040\123\056\101\056\061\023\060
\021\006\003\125\004\003\014\012\111\172\145\156\160\145\056\143
\157\155\060\202\002\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202
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\001\217\211\303\312\362\125\161\367\167\276\167\224\363\162\244
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\305\330\046\224\341\331\110\341\055\076\332\012\162\335\243\231
\025\332\201\242\207\364\173\156\046\167\211\130\255\326\353\014
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\335\015\166\343\072\327\367\264\150\276\242\365\343\201\156\301
\106\157\135\215\340\115\306\124\125\211\032\063\061\012\261\127
\271\243\212\230\303\354\073\064\305\225\101\151\176\165\302\074
\040\305\141\272\121\107\240\040\220\223\241\220\113\363\116\174
\205\105\124\232\321\005\046\101\260\265\115\035\063\276\304\003
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\304\254\076\310\313\222\114\123\071\067\043\354\323\001\371\340
\011\104\115\115\144\300\341\015\132\207\042\274\255\033\243\376
\046\265\025\363\247\374\204\031\351\354\241\210\264\104\151\204
\203\363\211\321\164\006\251\314\013\326\302\336\047\205\120\046
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\361\274\201\366\131\153\317\031\123\351\215\025\313\112\313\251
\157\104\345\033\101\317\341\206\247\312\320\152\237\274\114\215
\006\063\132\242\205\345\220\065\240\142\134\026\116\360\343\242
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\206\050\376\322\271\352\343\332\245\303\107\151\022\340\333\360
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\054\065\326\257\066\064\264\315\073\370\062\250\357\343\170\211
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\170\211\354\172\247\205\341\271\173\074\336\276\036\171\204\316
\237\160\016\131\302\065\056\220\052\061\331\344\105\172\101\244
\056\023\233\064\016\146\173\111\253\144\227\320\106\303\171\235
\162\120\143\246\230\133\006\275\110\155\330\071\203\160\350\065
\360\005\321\252\274\343\333\310\002\352\174\375\202\332\302\133
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\167\320\135\345\201\042\041\207\376\224\175\204\330\223\255\326
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\103\046\001\065\143\140\125\211\003\072\165\330\272\112\331\124
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\333\374\046\210\307
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Izenpe.com"
Issuer: CN=Izenpe.com,O=IZENPE S.A.,C=ES
Serial Number:00:b0:b7:5a:16:48:5f:bf:e1:cb:f5:8b:d7:19:e6:7d
Subject: CN=Izenpe.com,O=IZENPE S.A.,C=ES
Not Valid Before: Thu Dec 13 13:08:28 2007
Not Valid After : Sun Dec 13 08:27:25 2037
Fingerprint (SHA-256):
25:30:CC:8E:98:32:15:02:BA:D9:6F:9B:1F:BA:1B:09:9E:2D:29:9E:0F:45:48:BB:91:4F:36:3B:C0:D4:53:1F
Fingerprint (SHA1): 2F:78:3D:25:52:18:A7:4A:65:39:71:B5:2C:A2:9C:45:15:6F:E9:19
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Izenpe.com"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\057\170\075\045\122\030\247\112\145\071\161\265\054\242\234\105
\025\157\351\031
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\246\260\315\205\200\332\134\120\064\243\071\220\057\125\147\163
END
CKA_ISSUER MULTILINE_OCTAL
\060\070\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\024\060\022\006\003\125\004\012\014\013\111\132\105\116\120\105
\040\123\056\101\056\061\023\060\021\006\003\125\004\003\014\012
\111\172\145\156\160\145\056\143\157\155
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\000\260\267\132\026\110\137\277\341\313\365\213\327\031
\346\175
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Chambers of Commerce Root - 2008"

#
Issuer: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
Serial Number:00:a3:da:42:7e:a4:b1:ae:da
Subject: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
Not Valid Before: Fri Aug 01 12:29:50 2008
Not Valid After : Sat Jul 31 12:29:50 2038
Fingerprint (SHA-256):
06:3E:4A:FA:C4:91:DF:D3:32:F3:08:9B:85:42:E9:46:17:D8:93:D7:FE:94:4E:10:A7:93:7E:E2:9D:96:93:C0
Fingerprint (SHA1): 78:6A:74:AC:76:AB:14:7F:9C:6A:30:50:BA:9E:A8:7E:FE:9A:CE:3C
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Chambers of Commerce Root - 2008"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\256\061\013\060\011\006\003\125\004\006\023\002\105\125
\061\103\060\101\006\003\125\004\007\023\072\115\141\144\162\151
\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141
\144\144\162\145\163\163\040\141\164\040\167\167\167\056\143\141
\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144\144
\162\145\163\163\051\061\022\060\020\006\003\125\004\005\023\011
\101\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125
\004\012\023\022\101\103\040\103\141\155\145\162\146\151\162\155
\141\040\123\056\101\056\061\051\060\047\006\003\125\004\003\023
\040\103\150\141\155\142\145\162\163\040\157\146\040\103\157\155
\155\145\162\143\145\040\122\157\157\164\040\055\040\062\060\060
\070
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\256\061\013\060\011\006\003\125\004\006\023\002\105\125
\061\103\060\101\006\003\125\004\007\023\072\115\141\144\162\151
\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141
\144\144\162\145\163\163\040\141\164\040\167\167\167\056\143\141
\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144\144
\162\145\163\163\051\061\022\060\020\006\003\125\004\005\023\011
\101\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125
\004\012\023\022\101\103\040\103\141\155\145\162\146\151\162\155
\141\040\123\056\101\056\061\051\060\047\006\003\125\004\003\023
\040\103\150\141\155\142\145\162\163\040\157\146\040\103\157\155
\155\145\162\143\145\040\122\157\157\164\040\055\040\062\060\060
\070
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\243\332\102\176\244\261\256\332

END
CKA_VALUE MULTILINE_OCTAL
\060\202\007\117\060\202\005\067\240\003\002\001\002\002\011\000
\243\332\102\176\244\261\256\332\060\015\006\011\052\206\110\206
\367\015\001\001\005\005\000\060\201\256\061\013\060\011\006\003
\125\004\006\023\002\105\125\061\103\060\101\006\003\125\004\007
\023\072\115\141\144\162\151\144\040\050\163\145\145\040\143\165
\162\162\145\156\164\040\141\144\144\162\145\163\163\040\141\164
\040\167\167\167\056\143\141\155\145\162\146\151\162\155\141\056
\143\157\155\057\141\144\144\162\145\163\163\051\061\022\060\020
\006\003\125\004\005\023\011\101\070\062\067\064\063\062\070\067
\061\033\060\031\006\003\125\004\012\023\022\101\103\040\103\141
\155\145\162\146\151\162\155\141\040\123\056\101\056\061\051\060
\047\006\003\125\004\003\023\040\103\150\141\155\142\145\162\163
\040\157\146\040\103\157\155\155\145\162\143\145\040\122\157\157
\164\040\055\040\062\060\060\070\060\036\027\015\060\070\060\070
\060\061\061\062\062\071\065\060\132\027\015\063\070\060\067\063
\061\061\062\062\071\065\060\132\060\201\256\061\013\060\011\006
\003\125\004\006\023\002\105\125\061\103\060\101\006\003\125\004
\007\023\072\115\141\144\162\151\144\040\050\163\145\145\040\143
\165\162\162\145\156\164\040\141\144\144\162\145\163\163\040\141
\164\040\167\167\167\056\143\141\155\145\162\146\151\162\155\141
\056\143\157\155\057\141\144\144\162\145\163\163\051\061\022\060
\020\006\003\125\004\005\023\011\101\070\062\067\064\063\062\070
\067\061\033\060\031\006\003\125\004\012\023\022\101\103\040\103
\141\155\145\162\146\151\162\155\141\040\123\056\101\056\061\051
\060\047\006\003\125\004\003\023\040\103\150\141\155\142\145\162
\163\040\157\146\040\103\157\155\155\145\162\143\145\040\122\157
\157\164\040\055\040\062\060\060\070\060\202\002\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017
\000\060\202\002\012\002\202\002\001\000\257\000\313\160\067\053
\200\132\112\072\154\170\224\175\243\177\032\037\366\065\325\275
\333\313\015\104\162\076\046\262\220\122\272\143\073\050\130\157
\245\263\155\224\246\363\335\144\014\125\366\366\347\362\042\042
\200\136\341\142\306\266\051\341\201\154\362\277\345\175\062\152
\124\240\062\031\131\376\037\213\327\075\140\206\205\044\157\343
\021\263\167\076\040\226\065\041\153\263\010\331\160\056\144\367
\204\222\123\326\016\260\220\212\212\343\207\215\006\323\275\220
\016\342\231\241\033\206\016\332\232\012\273\013\141\120\006\122
\361\236\177\166\354\313\017\320\036\015\317\231\060\075\034\304
\105\020\130\254\326\323\350\327\345\352\305\001\007\167\326\121
\346\003\177\212\110\245\115\150\165\271\351\274\236\116\031\161
\365\062\113\234\155\140\031\013\373\314\235\165\334\277\046\315
\217\223\170\071\171\163\136\045\016\312\134\353\167\022\007\313
\144\101\107\162\223\253\120\303\353\011\166\144\064\322\071\267
\166\021\011\015\166\105\304\251\256\075\152\257\265\175\145\057
\224\130\020\354\134\174\257\176\342\266\030\331\320\233\116\132
\111\337\251\146\013\314\074\306\170\174\247\234\035\343\316\216

\123\276\005\336\140\017\153\345\032\333\077\343\341\041\311\051
\301\361\353\007\234\122\033\001\104\121\074\173\045\327\304\345
\122\124\135\045\007\312\026\040\270\255\344\101\356\172\010\376
\231\157\203\246\221\002\260\154\066\125\152\347\175\365\226\346
\312\201\326\227\361\224\203\351\355\260\261\153\022\151\036\254
\373\135\251\305\230\351\264\133\130\172\276\075\242\104\072\143
\131\324\013\045\336\033\117\275\345\001\236\315\322\051\325\237
\027\031\012\157\277\014\220\323\011\137\331\343\212\065\314\171
\132\115\031\067\222\267\304\301\255\257\364\171\044\232\262\001
\013\261\257\134\226\363\200\062\373\134\075\230\361\240\077\112
\336\276\257\224\056\331\125\232\027\156\140\235\143\154\270\143
\311\256\201\134\030\065\340\220\273\276\074\117\067\042\271\176
\353\317\236\167\041\246\075\070\201\373\110\332\061\075\053\343
\211\365\320\265\275\176\340\120\304\022\211\263\043\232\020\061
\205\333\256\157\357\070\063\030\166\021\002\003\001\000\001\243
\202\001\154\060\202\001\150\060\022\006\003\125\035\023\001\001
\377\004\010\060\006\001\001\377\002\001\014\060\035\006\003\125
\035\016\004\026\004\024\371\044\254\017\262\265\370\171\300\372
\140\210\033\304\331\115\002\236\027\031\060\201\343\006\003\125
\035\043\004\201\333\060\201\330\200\024\371\044\254\017\262\265
\370\171\300\372\140\210\033\304\331\115\002\236\027\031\241\201
\264\244\201\261\060\201\256\061\013\060\011\006\003\125\004\006
\023\002\105\125\061\103\060\101\006\003\125\004\007\023\072\115
\141\144\162\151\144\040\050\163\145\145\040\143\165\162\162\145
\156\164\040\141\144\144\162\145\163\163\040\141\164\040\167\167
\167\056\143\141\155\145\162\146\151\162\155\141\056\143\157\155
\057\141\144\144\162\145\163\163\051\061\022\060\020\006\003\125
\004\005\023\011\101\070\062\067\064\063\062\070\067\061\033\060
\031\006\003\125\004\012\023\022\101\103\040\103\141\155\145\162
\146\151\162\155\141\040\123\056\101\056\061\051\060\047\006\003
\125\004\003\023\040\103\150\141\155\142\145\162\163\040\157\146
\040\103\157\155\155\145\162\143\145\040\122\157\157\164\040\055
\040\062\060\060\070\202\011\000\243\332\102\176\244\261\256\332
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006
\060\075\006\003\125\035\040\004\066\060\064\060\062\006\004\125
\035\040\000\060\052\060\050\006\010\053\006\001\005\005\007\002
\001\026\034\150\164\164\160\072\057\057\160\157\154\151\143\171
\056\143\141\155\145\162\146\151\162\155\141\056\143\157\155\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202
\002\001\000\220\022\257\042\065\302\243\071\360\056\336\351\265
\351\170\174\110\276\077\175\105\222\136\351\332\261\031\374\026
\074\237\264\133\146\236\152\347\303\271\135\210\350\017\255\317
\043\017\336\045\072\136\314\117\245\301\265\055\254\044\322\130
\007\336\242\317\151\204\140\063\350\020\015\023\251\043\320\205
\345\216\173\246\236\075\162\023\162\063\365\252\175\306\143\037
\010\364\376\001\177\044\317\053\054\124\011\336\342\053\155\222
\306\071\117\026\352\074\176\172\106\324\105\152\106\250\353\165
\202\126\247\253\240\174\150\023\063\366\235\060\360\157\047\071

\044\043\052\220\375\220\051\065\362\223\337\064\245\306\367\370
\357\214\017\142\112\174\256\323\365\124\370\215\266\232\126\207
\026\202\072\063\253\132\042\010\367\202\272\352\056\340\107\232
\264\265\105\243\005\073\331\334\056\105\100\073\352\334\177\350
\073\353\321\354\046\330\065\244\060\305\072\254\127\236\263\166
\245\040\173\371\036\112\005\142\001\246\050\165\140\227\222\015
\156\076\115\067\103\015\222\025\234\030\042\315\121\231\240\051
\032\074\137\212\062\063\133\060\307\211\057\107\230\017\243\003
\306\366\361\254\337\062\360\331\201\032\344\234\275\366\200\024
\360\321\054\271\205\365\330\243\261\310\245\041\345\034\023\227
\356\016\275\337\051\251\357\064\123\133\323\344\152\023\204\006
\266\062\002\304\122\256\042\322\334\262\041\102\032\332\100\360
\051\311\354\012\014\134\342\320\272\314\110\323\067\012\314\022
\012\212\171\260\075\003\177\151\113\364\064\040\175\263\064\352
\216\113\144\365\076\375\263\043\147\025\015\004\270\360\055\301
\011\121\074\262\154\025\360\245\043\327\203\164\344\345\056\311
\376\230\047\102\306\253\306\236\260\320\133\070\245\233\120\336
\176\030\230\265\105\073\366\171\264\350\367\032\173\006\203\373
\320\213\332\273\307\275\030\253\010\157\074\200\153\100\077\031
\031\272\145\212\346\276\325\134\323\066\327\357\100\122\044\140
\070\147\004\061\354\217\363\202\306\336\271\125\363\073\061\221
\132\334\265\010\025\255\166\045\012\015\173\056\207\342\014\246
\006\274\046\020\155\067\235\354\335\170\214\174\200\305\360\331
\167\110\320
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Chambers of Commerce Root - 2008"
Issuer: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
Serial Number:00:a3:da:42:7e:a4:b1:ae:da
Subject: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
Not Valid Before: Fri Aug 01 12:29:50 2008
Not Valid After : Sat Jul 31 12:29:50 2038
Fingerprint (SHA-256):
06:3E:4A:FA:C4:91:DF:D3:32:F3:08:9B:85:42:E9:46:17:D8:93:D7:FE:94:4E:10:A7:93:7E:E2:9D:96:93:C0
Fingerprint (SHA1): 78:6A:74:AC:76:AB:14:7F:9C:6A:30:50:BA:9E:A8:7E:FE:9A:CE:3C
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Chambers of Commerce Root - 2008"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\170\152\164\254\166\253\024\177\234\152\060\120\272\236\250\176
\376\232\316\074

END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\136\200\236\204\132\016\145\013\027\002\363\125\030\052\076\327
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\256\061\013\060\011\006\003\125\004\006\023\002\105\125
\061\103\060\101\006\003\125\004\007\023\072\115\141\144\162\151
\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141
\144\144\162\145\163\163\040\141\164\040\167\167\167\056\143\141
\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144\144
\162\145\163\163\051\061\022\060\020\006\003\125\004\005\023\011
\101\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125
\004\012\023\022\101\103\040\103\141\155\145\162\146\151\162\155
\141\040\123\056\101\056\061\051\060\047\006\003\125\004\003\023
\040\103\150\141\155\142\145\162\163\040\157\146\040\103\157\155
\155\145\162\143\145\040\122\157\157\164\040\055\040\062\060\060
\070
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\243\332\102\176\244\261\256\332
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Global Chambersign Root - 2008"
#
Issuer: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
Serial Number:00:c9:cd:d3:e9:d5:7d:23:ce
Subject: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
Not Valid Before: Fri Aug 01 12:31:40 2008
Not Valid After : Sat Jul 31 12:31:40 2038
Fingerprint (SHA-256):
13:63:35:43:93:34:A7:69:80:16:A0:D3:24:DE:72:28:4E:07:9D:7B:52:20:BB:8F:BD:74:78:16:EE:BE:BA:CA
Fingerprint (SHA1): 4A:BD:EE:EC:95:0D:35:9C:89:AE:C7:52:A1:2C:5B:29:F6:D6:AA:0C
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Global Chambersign Root - 2008"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\254\061\013\060\011\006\003\125\004\006\023\002\105\125
\061\103\060\101\006\003\125\004\007\023\072\115\141\144\162\151

\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141
\144\144\162\145\163\163\040\141\164\040\167\167\167\056\143\141
\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144\144
\162\145\163\163\051\061\022\060\020\006\003\125\004\005\023\011
\101\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125
\004\012\023\022\101\103\040\103\141\155\145\162\146\151\162\155
\141\040\123\056\101\056\061\047\060\045\006\003\125\004\003\023
\036\107\154\157\142\141\154\040\103\150\141\155\142\145\162\163
\151\147\156\040\122\157\157\164\040\055\040\062\060\060\070
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\254\061\013\060\011\006\003\125\004\006\023\002\105\125
\061\103\060\101\006\003\125\004\007\023\072\115\141\144\162\151
\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141
\144\144\162\145\163\163\040\141\164\040\167\167\167\056\143\141
\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144\144
\162\145\163\163\051\061\022\060\020\006\003\125\004\005\023\011
\101\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125
\004\012\023\022\101\103\040\103\141\155\145\162\146\151\162\155
\141\040\123\056\101\056\061\047\060\045\006\003\125\004\003\023
\036\107\154\157\142\141\154\040\103\150\141\155\142\145\162\163
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\367\015\001\001\005\005\000\060\201\254\061\013\060\011\006\003
\125\004\006\023\002\105\125\061\103\060\101\006\003\125\004\007
\023\072\115\141\144\162\151\144\040\050\163\145\145\040\143\165
\162\162\145\156\164\040\141\144\144\162\145\163\163\040\141\164
\040\167\167\167\056\143\141\155\145\162\146\151\162\155\141\056
\143\157\155\057\141\144\144\162\145\163\163\051\061\022\060\020
\006\003\125\004\005\023\011\101\070\062\067\064\063\062\070\067
\061\033\060\031\006\003\125\004\012\023\022\101\103\040\103\141
\155\145\162\146\151\162\155\141\040\123\056\101\056\061\047\060
\045\006\003\125\004\003\023\036\107\154\157\142\141\154\040\103
\150\141\155\142\145\162\163\151\147\156\040\122\157\157\164\040
\055\040\062\060\060\070\060\036\027\015\060\070\060\070\060\061
\061\062\063\061\064\060\132\027\015\063\070\060\067\063\061\061
\062\063\061\064\060\132\060\201\254\061\013\060\011\006\003\125
\004\006\023\002\105\125\061\103\060\101\006\003\125\004\007\023
\072\115\141\144\162\151\144\040\050\163\145\145\040\143\165\162
\162\145\156\164\040\141\144\144\162\145\163\163\040\141\164\040
\167\167\167\056\143\141\155\145\162\146\151\162\155\141\056\143

\157\155\057\141\144\144\162\145\163\163\051\061\022\060\020\006
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\023\333\377\301\266\031\213\067\101\030\225\122\107\353\027\235
\051\210\216\065\154\006\062\056\107\142\363\111\004\277\175\104
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\033\275\072\265\313\255\243\314\104\247\015\256\041\025\077\271
\172\133\222\165\330\244\022\070\211\031\212\267\200\322\342\062
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\165\323\301\376\000\125\260\207\124\350\047\220\065\035\114\063
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\041\335\324\300\075\245\237\237\037\103\120\311\273\274\154\172
\227\230\356\315\214\037\373\234\121\256\213\160\275\047\237\161
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\310\235\235\301\155\320\320\277\121\344\343\370\303\070\066\256
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\155\351\054\146\054\122\204\320\105\222\316\034\345\345\063\035
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\346\335\275\256\374\144\205\035\074\247\311\006\336\204\377\153
\350\153\032\074\305\242\263\102\373\213\011\076\137\010\122\307
\142\304\324\005\161\277\304\144\344\370\241\203\350\076\022\233
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\301\221\273\110\300\064\217\101\214\113\114\333\151\022\377\120
\224\234\040\203\131\163\355\174\241\362\361\375\335\367\111\323
\103\130\240\126\143\312\075\075\345\065\126\131\351\016\312\040
\314\053\113\223\051\017\002\003\001\000\001\243\202\001\152\060
\202\001\146\060\022\006\003\125\035\023\001\001\377\004\010\060
\006\001\001\377\002\001\014\060\035\006\003\125\035\016\004\026
\004\024\271\011\312\234\036\333\323\154\072\153\256\355\124\361
\133\223\006\065\056\136\060\201\341\006\003\125\035\043\004\201
\331\060\201\326\200\024\271\011\312\234\036\333\323\154\072\153
\256\355\124\361\133\223\006\065\056\136\241\201\262\244\201\257
\060\201\254\061\013\060\011\006\003\125\004\006\023\002\105\125

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\144\144\162\145\163\163\040\141\164\040\167\167\167\056\143\141
\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144\144
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\101\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125
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\141\040\123\056\101\056\061\047\060\045\006\003\125\004\003\023
\036\107\154\157\142\141\154\040\103\150\141\155\142\145\162\163
\151\147\156\040\122\157\157\164\040\055\040\062\060\060\070\202
\011\000\311\315\323\351\325\175\043\316\060\016\006\003\125\035
\017\001\001\377\004\004\003\002\001\006\060\075\006\003\125\035
\040\004\066\060\064\060\062\006\004\125\035\040\000\060\052\060
\050\006\010\053\006\001\005\005\007\002\001\026\034\150\164\164
\160\072\057\057\160\157\154\151\143\171\056\143\141\155\145\162
\146\151\162\155\141\056\143\157\155\060\015\006\011\052\206\110
\206\367\015\001\001\005\005\000\003\202\002\001\000\200\210\177
\160\336\222\050\331\005\224\106\377\220\127\251\361\057\337\032
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\122\210\160\022\352\335\075\365\233\123\124\157\341\140\242\250
\011\271\354\353\131\174\306\065\361\334\030\351\361\147\345\257
\272\105\340\011\336\312\104\017\302\027\016\167\221\105\172\063
\137\137\226\054\150\213\301\107\217\230\233\075\300\354\313\365
\325\202\222\204\065\321\276\066\070\126\162\061\133\107\055\252
\027\244\143\121\353\012\001\255\177\354\165\236\313\241\037\361
\177\022\261\271\344\144\177\147\326\043\052\364\270\071\135\230
\350\041\247\341\275\075\102\032\164\232\160\257\150\154\120\135
\111\317\377\373\016\135\346\054\107\327\201\072\131\000\265\163
\153\143\040\366\061\105\010\071\016\364\160\176\100\160\132\077
\320\153\102\251\164\075\050\057\002\155\165\162\225\011\215\110
\143\306\306\043\127\222\223\136\065\301\215\371\012\367\054\235
\142\034\366\255\174\335\246\061\036\266\261\307\176\205\046\372
\244\152\265\332\143\060\321\357\223\067\262\146\057\175\005\367
\347\267\113\230\224\065\300\331\072\051\301\235\262\120\063\035
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\270\162\170\153\033\355\071\344\135\313\233\252\207\325\117\116
\000\376\331\152\237\074\061\017\050\002\001\175\230\350\247\260
\242\144\236\171\370\110\362\025\251\314\346\310\104\353\077\170
\231\362\173\161\076\074\361\230\247\305\030\022\077\346\273\050
\063\102\351\105\012\174\155\362\206\171\057\305\202\031\175\011
\211\174\262\124\166\210\256\336\301\363\314\341\156\333\061\326
\223\256\231\240\357\045\152\163\230\211\133\072\056\023\210\036
\277\300\222\224\064\033\343\047\267\213\036\157\102\377\347\351
\067\233\120\035\055\242\371\002\356\313\130\130\072\161\274\150
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\323\330\060\317\023\015\117\025\311\204\274\247\110\055\370\060
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\351\233\256\325\124\300\164\200\321\013\102\237\301
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Global Chambersign Root - 2008"
Issuer: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
Serial Number:00:c9:cd:d3:e9:d5:7d:23:ce
Subject: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
Not Valid Before: Fri Aug 01 12:31:40 2008
Not Valid After : Sat Jul 31 12:31:40 2038
Fingerprint (SHA-256):
13:63:35:43:93:34:A7:69:80:16:A0:D3:24:DE:72:28:4E:07:9D:7B:52:20:BB:8F:BD:74:78:16:EE:BE:BA:CA
Fingerprint (SHA1): 4A:BD:EE:EC:95:0D:35:9C:89:AE:C7:52:A1:2C:5B:29:F6:D6:AA:0C
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Global Chambersign Root - 2008"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\112\275\356\354\225\015\065\234\211\256\307\122\241\054\133\051
\366\326\252\014
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\236\200\377\170\001\014\056\301\066\275\376\226\220\156\010\363
END
CKA_ISSUER MULTILINE_OCTAL
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\061\103\060\101\006\003\125\004\007\023\072\115\141\144\162\151
\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141
\144\144\162\145\163\163\040\141\164\040\167\167\167\056\143\141
\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144\144
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\101\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125
\004\012\023\022\101\103\040\103\141\155\145\162\146\151\162\155
\141\040\123\056\101\056\061\047\060\045\006\003\125\004\003\023
\036\107\154\157\142\141\154\040\103\150\141\155\142\145\162\163
\151\147\156\040\122\157\157\164\040\055\040\062\060\060\070
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\311\315\323\351\325\175\043\316
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Go Daddy Root Certificate Authority - G2"
#
Issuer: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US
Serial Number: 0 (0x0)
Subject: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com,
Inc.",L=Scottsdale,ST=Arizona,C=US
Not Valid Before: Tue Sep 01 00:00:00 2009
Not Valid After : Thu Dec 31 23:59:59 2037
Fingerprint (SHA-256):
45:14:0B:32:47:EB:9C:C8:C5:B4:F0:D7:B5:30:91:F7:32:92:08:9E:6E:5A:63:E2:74:9D:D3:AC:A9:19:8E:DA
Fingerprint (SHA1): 47:BE:AB:C9:22:EA:E8:0E:78:78:34:62:A7:9F:45:C2:54:FD:E6:8B
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Root Certificate Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\203\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\032\060\030\006\003\125\004\012
\023\021\107\157\104\141\144\144\171\056\143\157\155\054\040\111
\156\143\056\061\061\060\057\006\003\125\004\003\023\050\107\157
\040\104\141\144\144\171\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164
\171\040\055\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
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\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\032\060\030\006\003\125\004\012
\023\021\107\157\104\141\144\144\171\056\143\157\155\054\040\111
\156\143\056\061\061\060\057\006\003\125\004\003\023\050\107\157
\040\104\141\144\144\171\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164
\171\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
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\201\203\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157\156
\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157\164
\164\163\144\141\154\145\061\032\060\030\006\003\125\004\012\023
\021\107\157\104\141\144\144\171\056\143\157\155\054\040\111\156
\143\056\061\061\060\057\006\003\125\004\003\023\050\107\157\040
\104\141\144\144\171\040\122\157\157\164\040\103\145\162\164\151
\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171
\040\055\040\107\062\060\036\027\015\060\071\060\071\060\061\060
\060\060\060\060\060\132\027\015\063\067\061\062\063\061\062\063
\065\071\065\071\132\060\201\203\061\013\060\011\006\003\125\004
\006\023\002\125\123\061\020\060\016\006\003\125\004\010\023\007
\101\162\151\172\157\156\141\061\023\060\021\006\003\125\004\007
\023\012\123\143\157\164\164\163\144\141\154\145\061\032\060\030
\006\003\125\004\012\023\021\107\157\104\141\144\144\171\056\143
\157\155\054\040\111\156\143\056\061\061\060\057\006\003\125\004
\003\023\050\107\157\040\104\141\144\144\171\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\062\060\202\001\042\060
\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202
\001\017\000\060\202\001\012\002\202\001\001\000\277\161\142\010
\361\372\131\064\367\033\311\030\243\367\200\111\130\351\042\203
\023\246\305\040\103\001\073\204\361\346\205\111\237\047\352\366
\204\033\116\240\264\333\160\230\307\062\001\261\005\076\007\116
\356\364\372\117\057\131\060\042\347\253\031\126\153\342\200\007
\374\363\026\165\200\071\121\173\345\371\065\266\164\116\251\215
\202\023\344\266\077\251\003\203\372\242\276\212\025\152\177\336
\013\303\266\031\024\005\312\352\303\250\004\224\073\106\174\062
\015\363\000\146\042\310\215\151\155\066\214\021\030\267\323\262
\034\140\264\070\372\002\214\316\323\335\106\007\336\012\076\353
\135\174\310\174\373\260\053\123\244\222\142\151\121\045\005\141
\032\104\201\214\054\251\103\226\043\337\254\072\201\232\016\051
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\373\113\135\314\062\354\205\142\103\045\064\002\126\047\001\221
\264\073\160\052\077\156\261\350\234\210\001\175\237\324\371\333
\123\155\140\235\277\054\347\130\253\270\137\106\374\316\304\033
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\001\243\102\060\100\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\035\006\003\125\035\016\004\026\004
\024\072\232\205\007\020\147\050\266\357\366\275\005\101\156\040
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\207\264\367\246\234\274\330\351\057\320\333\132\356\317\164\214
\163\264\070\102\332\005\173\370\002\165\270\375\245\261\327\256
\366\327\336\023\313\123\020\176\212\106\321\227\372\267\056\053

\021\253\220\260\047\200\371\350\237\132\351\067\237\253\344\337
\154\263\205\027\235\075\331\044\117\171\221\065\326\137\004\353
\200\203\253\232\002\055\265\020\364\330\220\307\004\163\100\355
\162\045\240\251\237\354\236\253\150\022\231\127\306\217\022\072
\011\244\275\104\375\006\025\067\301\233\344\062\243\355\070\350
\330\144\363\054\176\024\374\002\352\237\315\377\007\150\027\333
\042\220\070\055\172\215\321\124\361\151\343\137\063\312\172\075
\173\012\343\312\177\137\071\345\342\165\272\305\166\030\063\316
\054\360\057\114\255\367\261\347\316\117\250\304\233\112\124\006
\305\177\175\325\010\017\342\034\376\176\027\270\254\136\366\324
\026\262\103\011\014\115\366\247\153\264\231\204\145\312\172\210
\342\342\104\276\134\367\352\034\365
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Go Daddy Root Certificate Authority - G2"
Issuer: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US
Serial Number: 0 (0x0)
Subject: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com,
Inc.",L=Scottsdale,ST=Arizona,C=US
Not Valid Before: Tue Sep 01 00:00:00 2009
Not Valid After : Thu Dec 31 23:59:59 2037
Fingerprint (SHA-256):
45:14:0B:32:47:EB:9C:C8:C5:B4:F0:D7:B5:30:91:F7:32:92:08:9E:6E:5A:63:E2:74:9D:D3:AC:A9:19:8E:DA
Fingerprint (SHA1): 47:BE:AB:C9:22:EA:E8:0E:78:78:34:62:A7:9F:45:C2:54:FD:E6:8B
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Root Certificate Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\107\276\253\311\042\352\350\016\170\170\064\142\247\237\105\302
\124\375\346\213
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\200\072\274\042\301\346\373\215\233\073\047\112\062\033\232\001
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\203\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\032\060\030\006\003\125\004\012
\023\021\107\157\104\141\144\144\171\056\143\157\155\054\040\111
\156\143\056\061\061\060\057\006\003\125\004\003\023\050\107\157
\040\104\141\144\144\171\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164

\171\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Starfield Root Certificate Authority - G2"
#
Issuer: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies,
Inc.",L=Scottsdale,ST=Arizona,C=US
Serial Number: 0 (0x0)
Subject: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies,
Inc.",L=Scottsdale,ST=Arizona,C=US
Not Valid Before: Tue Sep 01 00:00:00 2009
Not Valid After : Thu Dec 31 23:59:59 2037
Fingerprint (SHA-256):
2C:E1:CB:0B:F9:D2:F9:E1:02:99:3F:BE:21:51:52:C3:B2:DD:0C:AB:DE:1C:68:E5:31:9B:83:91:54:DB:B7:F5
Fingerprint (SHA1): B5:1C:06:7C:EE:2B:0C:3D:F8:55:AB:2D:92:F4:FE:39:D4:E7:0F:0E
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Root Certificate Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\217\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062
\060\060\006\003\125\004\003\023\051\123\164\141\162\146\151\145
\154\144\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040
\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\217\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150

\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062
\060\060\006\003\125\004\003\023\051\123\164\141\162\146\151\145
\154\144\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040
\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\335\060\202\002\305\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\201\217\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157\156
\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157\164
\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012\023
\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150\156
\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062\060
\060\006\003\125\004\003\023\051\123\164\141\162\146\151\145\154
\144\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\062\060\036\027\015\060\071\060\071\060\061\060\060\060\060\060
\060\132\027\015\063\067\061\062\063\061\062\063\065\071\065\071
\132\060\201\217\061\013\060\011\006\003\125\004\006\023\002\125
\123\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172
\157\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143
\157\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004
\012\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143
\150\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061
\062\060\060\006\003\125\004\003\023\051\123\164\141\162\146\151
\145\154\144\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055
\040\107\062\060\202\001\042\060\015\006\011\052\206\110\206\367
\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002
\202\001\001\000\275\355\301\003\374\366\217\374\002\261\157\133
\237\110\331\235\171\342\242\267\003\141\126\030\303\107\266\327
\312\075\065\056\211\103\367\241\151\233\336\212\032\375\023\040
\234\264\111\167\062\051\126\375\271\354\214\335\042\372\162\334
\047\141\227\356\366\132\204\354\156\031\271\211\054\334\204\133
\325\164\373\153\137\305\211\245\020\122\211\106\125\364\270\165
\034\346\177\344\124\256\113\370\125\162\127\002\031\370\027\161
\131\353\036\050\007\164\305\235\110\276\154\264\364\244\260\363
\144\067\171\222\300\354\106\136\177\341\155\123\114\142\257\315
\037\013\143\273\072\235\373\374\171\000\230\141\164\317\046\202
\100\143\363\262\162\152\031\015\231\312\324\016\165\314\067\373
\213\211\301\131\361\142\177\137\263\137\145\060\370\247\267\115
\166\132\036\166\136\064\300\350\226\126\231\212\263\360\177\244
\315\275\334\062\061\174\221\317\340\137\021\370\153\252\111\134

\321\231\224\321\242\343\143\133\011\166\265\126\142\341\113\164
\035\226\324\046\324\010\004\131\320\230\016\016\346\336\374\303
\354\037\220\361\002\003\001\000\001\243\102\060\100\060\017\006
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\035
\006\003\125\035\016\004\026\004\024\174\014\062\037\247\331\060
\177\304\175\150\243\142\250\241\316\253\007\133\047\060\015\006
\011\052\206\110\206\367\015\001\001\013\005\000\003\202\001\001
\000\021\131\372\045\117\003\157\224\231\073\232\037\202\205\071
\324\166\005\224\136\341\050\223\155\142\135\011\302\240\250\324
\260\165\070\361\064\152\235\344\237\212\206\046\121\346\054\321
\306\055\156\225\040\112\222\001\354\270\212\147\173\061\342\147
\056\214\225\003\046\056\103\235\112\061\366\016\265\014\273\267
\342\067\177\042\272\000\243\016\173\122\373\153\273\073\304\323
\171\121\116\315\220\364\147\007\031\310\074\106\172\015\001\175
\305\130\347\155\346\205\060\027\232\044\304\020\340\004\367\340
\362\177\324\252\012\377\102\035\067\355\224\345\144\131\022\040
\167\070\323\062\076\070\201\165\226\163\372\150\217\261\313\316
\037\305\354\372\234\176\317\176\261\361\007\055\266\374\277\312
\244\277\320\227\005\112\274\352\030\050\002\220\275\124\170\011
\041\161\323\321\175\035\331\026\260\251\141\075\320\012\000\042
\374\307\173\313\011\144\105\013\073\100\201\367\175\174\062\365
\230\312\130\216\175\052\356\220\131\163\144\371\066\164\136\045
\241\365\146\005\056\177\071\025\251\052\373\120\213\216\205\151
\364
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Starfield Root Certificate Authority - G2"
Issuer: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies,
Inc.",L=Scottsdale,ST=Arizona,C=US
Serial Number: 0 (0x0)
Subject: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies,
Inc.",L=Scottsdale,ST=Arizona,C=US
Not Valid Before: Tue Sep 01 00:00:00 2009
Not Valid After : Thu Dec 31 23:59:59 2037
Fingerprint (SHA-256):
2C:E1:CB:0B:F9:D2:F9:E1:02:99:3F:BE:21:51:52:C3:B2:DD:0C:AB:DE:1C:68:E5:31:9B:83:91:54:DB:B7:F5
Fingerprint (SHA1): B5:1C:06:7C:EE:2B:0C:3D:F8:55:AB:2D:92:F4:FE:39:D4:E7:0F:0E
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Root Certificate Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\265\034\006\174\356\053\014\075\370\125\253\055\222\364\376\071

\324\347\017\016
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\326\071\201\306\122\176\226\151\374\374\312\146\355\005\362\226
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\217\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062
\060\060\006\003\125\004\003\023\051\123\164\141\162\146\151\145
\154\144\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040
\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Starfield Services Root Certificate Authority - G2"
#
Issuer: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies,
Inc.",L=Scottsdale,ST=Arizona,C=US
Serial Number: 0 (0x0)
Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies,
Inc.",L=Scottsdale,ST=Arizona,C=US
Not Valid Before: Tue Sep 01 00:00:00 2009
Not Valid After : Thu Dec 31 23:59:59 2037
Fingerprint (SHA-256):
56:8D:69:05:A2:C8:87:08:A4:B3:02:51:90:ED:CF:ED:B1:97:4A:60:6A:13:C6:E5:29:0F:CB:2A:E6:3E:DA:B5
Fingerprint (SHA1): 92:5A:8F:8D:2C:6D:04:E0:66:5F:59:6A:FF:22:D8:63:E8:25:6F:3F
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Services Root Certificate Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157

\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\073
\060\071\006\003\125\004\003\023\062\123\164\141\162\146\151\145
\154\144\040\123\145\162\166\151\143\145\163\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\073
\060\071\006\003\125\004\003\023\062\123\164\141\162\146\151\145
\154\144\040\123\145\162\166\151\143\145\163\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\357\060\202\002\327\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157\156
\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157\164
\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012\023
\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150\156
\157\154\157\147\151\145\163\054\040\111\156\143\056\061\073\060
\071\006\003\125\004\003\023\062\123\164\141\162\146\151\145\154
\144\040\123\145\162\166\151\143\145\163\040\122\157\157\164\040
\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150
\157\162\151\164\171\040\055\040\107\062\060\036\027\015\060\071
\060\071\060\061\060\060\060\060\060\060\132\027\015\063\067\061
\062\063\061\062\063\065\071\065\071\132\060\201\230\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\020\060\016\006\003
\125\004\010\023\007\101\162\151\172\157\156\141\061\023\060\021
\006\003\125\004\007\023\012\123\143\157\164\164\163\144\141\154
\145\061\045\060\043\006\003\125\004\012\023\034\123\164\141\162
\146\151\145\154\144\040\124\145\143\150\156\157\154\157\147\151
\145\163\054\040\111\156\143\056\061\073\060\071\006\003\125\004
\003\023\062\123\164\141\162\146\151\145\154\144\040\123\145\162
\166\151\143\145\163\040\122\157\157\164\040\103\145\162\164\151
\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171

\040\055\040\107\062\060\202\001\042\060\015\006\011\052\206\110
\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001
\012\002\202\001\001\000\325\014\072\304\052\371\116\342\365\276
\031\227\137\216\210\123\261\037\077\313\317\237\040\023\155\051
\072\310\017\175\074\367\153\166\070\143\331\066\140\250\233\136
\134\000\200\262\057\131\177\366\207\371\045\103\206\347\151\033
\122\232\220\341\161\343\330\055\015\116\157\366\310\111\331\266
\363\032\126\256\053\266\164\024\353\317\373\046\343\032\272\035
\226\056\152\073\130\224\211\107\126\377\045\240\223\160\123\203
\332\204\164\024\303\147\236\004\150\072\337\216\100\132\035\112
\116\317\103\221\073\347\126\326\000\160\313\122\356\173\175\256
\072\347\274\061\371\105\366\302\140\317\023\131\002\053\200\314
\064\107\337\271\336\220\145\155\002\317\054\221\246\246\347\336
\205\030\111\174\146\116\243\072\155\251\265\356\064\056\272\015
\003\270\063\337\107\353\261\153\215\045\331\233\316\201\321\105
\106\062\226\160\207\336\002\016\111\103\205\266\154\163\273\144
\352\141\101\254\311\324\124\337\207\057\307\042\262\046\314\237
\131\124\150\237\374\276\052\057\304\125\034\165\100\140\027\205
\002\125\071\213\177\005\002\003\001\000\001\243\102\060\100\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006
\060\035\006\003\125\035\016\004\026\004\024\234\137\000\337\252
\001\327\060\053\070\210\242\270\155\112\234\362\021\221\203\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202
\001\001\000\113\066\246\204\167\151\335\073\031\237\147\043\010
\157\016\141\311\375\204\334\137\330\066\201\315\330\033\101\055
\237\140\335\307\032\150\331\321\156\206\341\210\043\317\023\336
\103\317\342\064\263\004\235\037\051\325\277\370\136\310\325\301
\275\356\222\157\062\164\362\221\202\057\275\202\102\172\255\052
\267\040\175\115\274\172\125\022\302\025\352\275\367\152\225\056
\154\164\237\317\034\264\362\305\001\243\205\320\162\076\255\163
\253\013\233\165\014\155\105\267\216\224\254\226\067\265\240\320
\217\025\107\016\343\350\203\335\217\375\357\101\001\167\314\047
\251\142\205\063\362\067\010\357\161\317\167\006\336\310\031\035
\210\100\317\175\106\035\377\036\307\341\316\377\043\333\306\372
\215\125\116\251\002\347\107\021\106\076\364\375\275\173\051\046
\273\251\141\142\067\050\266\055\052\366\020\206\144\311\160\247
\322\255\267\051\160\171\352\074\332\143\045\237\375\150\267\060
\354\160\373\165\212\267\155\140\147\262\036\310\271\351\330\250
\157\002\213\147\015\115\046\127\161\332\040\374\301\112\120\215
\261\050\272
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Starfield Services Root Certificate Authority - G2"
Issuer: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies,

Inc.",L=Scottsdale,ST=Arizona,C=US
Serial Number: 0 (0x0)
Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies,
Inc.",L=Scottsdale,ST=Arizona,C=US
Not Valid Before: Tue Sep 01 00:00:00 2009
Not Valid After : Thu Dec 31 23:59:59 2037
Fingerprint (SHA-256):
56:8D:69:05:A2:C8:87:08:A4:B3:02:51:90:ED:CF:ED:B1:97:4A:60:6A:13:C6:E5:29:0F:CB:2A:E6:3E:DA:B5
Fingerprint (SHA1): 92:5A:8F:8D:2C:6D:04:E0:66:5F:59:6A:FF:22:D8:63:E8:25:6F:3F
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Services Root Certificate Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\222\132\217\215\054\155\004\340\146\137\131\152\377\042\330\143
\350\045\157\077
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\027\065\164\257\173\141\034\353\364\371\074\342\356\100\371\242
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\073
\060\071\006\003\125\004\003\023\062\123\164\141\162\146\151\145
\154\144\040\123\145\162\166\151\143\145\163\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "AffirmTrust Commercial"
#
Issuer: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
Serial Number:77:77:06:27:26:a9:b1:7c
Subject: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
Not Valid Before: Fri Jan 29 14:06:06 2010

Not Valid After : Tue Dec 31 14:06:06 2030
Fingerprint (SHA-256):
03:76:AB:1D:54:C5:F9:80:3C:E4:B2:E2:01:A0:EE:7E:EF:7B:57:B6:36:E8:A9:3C:9B:8D:48:60:C9:6F:5F:A7
Fingerprint (SHA1): F9:B5:B6:32:45:5F:9C:BE:EC:57:5F:80:DC:E9:6E:2C:C7:B2:78:B7
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Commercial"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\103\157\155\155
\145\162\143\151\141\154
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\103\157\155\155
\145\162\143\151\141\154
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\167\167\006\047\046\251\261\174
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\114\060\202\002\064\240\003\002\001\002\002\010\167
\167\006\047\046\251\261\174\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\104\061\013\060\011\006\003\125\004
\006\023\002\125\123\061\024\060\022\006\003\125\004\012\014\013
\101\146\146\151\162\155\124\162\165\163\164\061\037\060\035\006
\003\125\004\003\014\026\101\146\146\151\162\155\124\162\165\163
\164\040\103\157\155\155\145\162\143\151\141\154\060\036\027\015
\061\060\060\061\062\071\061\064\060\066\060\066\132\027\015\063
\060\061\062\063\061\061\064\060\066\060\066\132\060\104\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\024\060\022\006
\003\125\004\012\014\013\101\146\146\151\162\155\124\162\165\163
\164\061\037\060\035\006\003\125\004\003\014\026\101\146\146\151
\162\155\124\162\165\163\164\040\103\157\155\155\145\162\143\151
\141\154\060\202\001\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202
\001\001\000\366\033\117\147\007\053\241\025\365\006\042\313\037
\001\262\343\163\105\006\104\111\054\273\111\045\024\326\316\303
\267\253\054\117\306\101\062\224\127\372\022\247\133\016\342\217
\037\036\206\031\247\252\265\055\271\137\015\212\302\257\205\065

\171\062\055\273\034\142\067\362\261\133\112\075\312\315\161\137
\351\102\276\224\350\310\336\371\042\110\144\306\345\253\306\053
\155\255\005\360\372\325\013\317\232\345\360\120\244\213\073\107
\245\043\133\172\172\370\063\077\270\357\231\227\343\040\301\326
\050\211\317\224\373\271\105\355\343\100\027\021\324\164\360\013
\061\342\053\046\152\233\114\127\256\254\040\076\272\105\172\005
\363\275\233\151\025\256\175\116\040\143\304\065\166\072\007\002
\311\067\375\307\107\356\350\361\166\035\163\025\362\227\244\265
\310\172\171\331\102\252\053\177\134\376\316\046\117\243\146\201
\065\257\104\272\124\036\034\060\062\145\235\346\074\223\136\120
\116\172\343\072\324\156\314\032\373\371\322\067\256\044\052\253
\127\003\042\050\015\111\165\177\267\050\332\165\277\216\343\334
\016\171\061\002\003\001\000\001\243\102\060\100\060\035\006\003
\125\035\016\004\026\004\024\235\223\306\123\213\136\312\257\077
\237\036\017\345\231\225\274\044\366\224\217\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\006\060\015\006\011
\052\206\110\206\367\015\001\001\013\005\000\003\202\001\001\000
\130\254\364\004\016\315\300\015\377\012\375\324\272\026\137\051
\275\173\150\231\130\111\322\264\035\067\115\177\047\175\106\006
\135\103\306\206\056\076\163\262\046\175\117\223\251\266\304\052
\232\253\041\227\024\261\336\214\323\253\211\025\330\153\044\324
\361\026\256\330\244\134\324\177\121\216\355\030\001\261\223\143
\275\274\370\141\200\232\236\261\316\102\160\342\251\175\006\045
\175\047\241\376\157\354\263\036\044\332\343\113\125\032\000\073
\065\264\073\331\327\135\060\375\201\023\211\362\302\006\053\355
\147\304\216\311\103\262\134\153\025\211\002\274\142\374\116\362
\265\063\252\262\157\323\012\242\120\343\366\073\350\056\104\302
\333\146\070\251\063\126\110\361\155\033\063\215\015\214\077\140
\067\235\323\312\155\176\064\176\015\237\162\166\213\033\237\162
\375\122\065\101\105\002\226\057\034\262\232\163\111\041\261\111
\107\105\107\264\357\152\064\021\311\115\232\314\131\267\326\002
\236\132\116\145\265\224\256\033\337\051\260\026\361\277\000\236
\007\072\027\144\265\004\265\043\041\231\012\225\073\227\174\357
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "AffirmTrust Commercial"
Issuer: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
Serial Number:77:77:06:27:26:a9:b1:7c
Subject: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
Not Valid Before: Fri Jan 29 14:06:06 2010
Not Valid After : Tue Dec 31 14:06:06 2030
Fingerprint (SHA-256):
03:76:AB:1D:54:C5:F9:80:3C:E4:B2:E2:01:A0:EE:7E:EF:7B:57:B6:36:E8:A9:3C:9B:8D:48:60:C9:6F:5F:A7
Fingerprint (SHA1): F9:B5:B6:32:45:5F:9C:BE:EC:57:5F:80:DC:E9:6E:2C:C7:B2:78:B7

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Commercial"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\371\265\266\062\105\137\234\276\354\127\137\200\334\351\156\054
\307\262\170\267
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\202\222\272\133\357\315\212\157\246\075\125\371\204\366\326\267
END
CKA_ISSUER MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\103\157\155\155
\145\162\143\151\141\154
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\167\167\006\047\046\251\261\174
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "AffirmTrust Networking"
#
# Issuer: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Serial Number:7c:4f:04:39:1c:d4:99:2d
# Subject: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:08:24 2010
# Not Valid After : Tue Dec 31 14:08:24 2030
# Fingerprint (SHA-256):
0A:81:EC:5A:92:97:77:F1:45:90:4A:F3:8D:5D:50:9F:66:B5:E2:C5:8F:CD:B5:31:05:8B:0E:17:F3:F0:B4:1B
# Fingerprint (SHA1): 29:36:21:02:8B:20:ED:02:F5:66:C5:32:D1:D6:ED:90:9F:45:00:2F
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Networking"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
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\101\146\146\151\162\155\124\162\165\163\164\040\116\145\164\167
\157\162\153\151\156\147
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\116\145\164\167
\157\162\153\151\156\147
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\174\117\004\071\034\324\231\055
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\114\060\202\002\064\240\003\002\001\002\002\010\174
\117\004\071\034\324\231\055\060\015\006\011\052\206\110\206\367
\015\001\001\005\005\000\060\104\061\013\060\011\006\003\125\004
\006\023\002\125\123\061\024\060\022\006\003\125\004\012\014\013
\101\146\146\151\162\155\124\162\165\163\164\061\037\060\035\006
\003\125\004\003\014\026\101\146\146\151\162\155\124\162\165\163
\164\040\116\145\164\167\157\162\153\151\156\147\060\036\027\015
\061\060\060\061\062\071\061\064\060\070\062\064\132\027\015\063
\060\061\062\063\061\061\064\060\070\062\064\132\060\104\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\024\060\022\006
\003\125\004\012\014\013\101\146\146\151\162\155\124\162\165\163
\164\061\037\060\035\006\003\125\004\003\014\026\101\146\146\151
\162\155\124\162\165\163\164\040\116\145\164\167\157\162\153\151
\156\147\060\202\001\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202
\001\001\000\264\204\314\063\027\056\153\224\154\153\141\122\240
\353\243\317\171\224\114\345\224\200\231\313\125\144\104\145\217
\147\144\342\006\343\134\067\111\366\057\233\204\204\036\055\362
\140\235\060\116\314\204\205\342\054\317\036\236\376\066\253\063
\167\065\104\330\065\226\032\075\066\350\172\016\330\325\107\241
\152\151\213\331\374\273\072\256\171\132\325\364\326\161\273\232
\220\043\153\232\267\210\164\207\014\036\137\271\236\055\372\253
\123\053\334\273\166\076\223\114\010\010\214\036\242\043\034\324
\152\255\042\272\231\001\056\155\145\313\276\044\146\125\044\113
\100\104\261\033\327\341\302\205\300\336\020\077\075\355\270\374
\361\361\043\123\334\277\145\227\157\331\371\100\161\215\175\275
\225\324\316\276\240\136\047\043\336\375\246\320\046\016\000\051
\353\074\106\360\075\140\277\077\120\322\334\046\101\121\236\024
\067\102\004\243\160\127\250\033\207\355\055\372\173\356\214\012
\343\251\146\211\031\313\101\371\335\104\066\141\317\342\167\106
\310\175\366\364\222\201\066\375\333\064\361\162\176\363\014\026
\275\264\025\002\003\001\000\001\243\102\060\100\060\035\006\003
\125\035\016\004\026\004\024\007\037\322\347\234\332\302\156\242

\100\264\260\172\120\020\120\164\304\310\275\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\006\060\015\006\011
\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000
\211\127\262\026\172\250\302\375\326\331\233\233\064\302\234\264
\062\024\115\247\244\337\354\276\247\276\370\103\333\221\067\316
\264\062\056\120\125\032\065\116\166\103\161\040\357\223\167\116
\025\160\056\207\303\301\035\155\334\313\265\047\324\054\126\321
\122\123\072\104\322\163\310\304\033\005\145\132\142\222\234\356
\101\215\061\333\347\064\352\131\041\325\001\172\327\144\270\144
\071\315\311\355\257\355\113\003\110\247\240\231\001\200\334\145
\243\066\256\145\131\110\117\202\113\310\145\361\127\035\345\131
\056\012\077\154\330\321\365\345\011\264\154\124\000\012\340\025
\115\207\165\155\267\130\226\132\335\155\322\000\240\364\233\110
\276\303\067\244\272\066\340\174\207\205\227\032\025\242\336\056
\242\133\275\257\030\371\220\120\315\160\131\370\047\147\107\313
\307\240\007\072\175\321\054\135\154\031\072\146\265\175\375\221
\157\202\261\276\010\223\333\024\107\361\242\067\307\105\236\074
\307\167\257\144\250\223\337\366\151\203\202\140\362\111\102\064
\355\132\000\124\205\034\026\066\222\014\134\372\246\255\277\333
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "AffirmTrust Networking"
Issuer: CN=AffirmTrust Networking,O=AffirmTrust,C=US
Serial Number:7c:4f:04:39:1c:d4:99:2d
Subject: CN=AffirmTrust Networking,O=AffirmTrust,C=US
Not Valid Before: Fri Jan 29 14:08:24 2010
Not Valid After : Tue Dec 31 14:08:24 2030
Fingerprint (SHA-256):
0A:81:EC:5A:92:97:77:F1:45:90:4A:F3:8D:5D:50:9F:66:B5:E2:C5:8F:CD:B5:31:05:8B:0E:17:F3:F0:B4:1B
Fingerprint (SHA1): 29:36:21:02:8B:20:ED:02:F5:66:C5:32:D1:D6:ED:90:9F:45:00:2F
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Networking"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\051\066\041\002\213\040\355\002\365\146\305\062\321\326\355\220
\237\105\000\057
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\102\145\312\276\001\232\232\114\251\214\101\111\315\300\325\177
END
CKA_ISSUER MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061

\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\116\145\164\167
\157\162\153\151\156\147
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\174\117\004\071\034\324\231\055
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "AffirmTrust Premium"
#
Issuer: CN=AffirmTrust Premium,O=AffirmTrust,C=US
Serial Number:6d:8c:14:46:b1:a6:0a:ee
Subject: CN=AffirmTrust Premium,O=AffirmTrust,C=US
Not Valid Before: Fri Jan 29 14:10:36 2010
Not Valid After : Mon Dec 31 14:10:36 2040
Fingerprint (SHA-256):
70:A7:3F:7F:37:6B:60:07:42:48:90:45:34:B1:14:82:D5:BF:0E:69:8E:CC:49:8D:F5:25:77:EB:F2:E9:3B:9A
Fingerprint (SHA1): D8:A6:33:2C:E0:03:6F:B1:85:F6:63:4F:7D:6A:06:65:26:32:28:27
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Premium"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\101\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\034\060\032\006\003\125\004\003\014\023
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\101\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\034\060\032\006\003\125\004\003\014\023
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\155\214\024\106\261\246\012\356
END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\106\060\202\003\056\240\003\002\001\002\002\010\155
\214\024\106\261\246\012\356\060\015\006\011\052\206\110\206\367
\015\001\001\014\005\000\060\101\061\013\060\011\006\003\125\004
\006\023\002\125\123\061\024\060\022\006\003\125\004\012\014\013
\101\146\146\151\162\155\124\162\165\163\164\061\034\060\032\006
\003\125\004\003\014\023\101\146\146\151\162\155\124\162\165\163
\164\040\120\162\145\155\151\165\155\060\036\027\015\061\060\060
\061\062\071\061\064\061\060\063\066\132\027\015\064\060\061\062
\063\061\061\064\061\060\063\066\132\060\101\061\013\060\011\006
\003\125\004\006\023\002\125\123\061\024\060\022\006\003\125\004
\012\014\013\101\146\146\151\162\155\124\162\165\163\164\061\034
\060\032\006\003\125\004\003\014\023\101\146\146\151\162\155\124
\162\165\163\164\040\120\162\145\155\151\165\155\060\202\002\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\002\017\000\060\202\002\012\002\202\002\001\000\304\022\337
\251\137\376\101\335\335\365\237\212\343\366\254\341\074\170\232
\274\330\360\177\172\240\063\052\334\215\040\133\256\055\157\347
\223\331\066\160\152\150\317\216\121\243\205\133\147\004\240\020
\044\157\135\050\202\301\227\127\330\110\051\023\266\341\276\221
\115\337\205\014\123\030\232\036\044\242\117\217\360\242\205\013
\313\364\051\177\322\244\130\356\046\115\311\252\250\173\232\331
\372\070\336\104\127\025\345\370\214\310\331\110\342\015\026\047
\035\036\310\203\205\045\267\272\252\125\101\314\003\042\113\055
\221\215\213\346\211\257\146\307\351\377\053\351\074\254\332\322
\263\303\341\150\234\211\370\172\000\126\336\364\125\225\154\373
\272\144\335\142\213\337\013\167\062\353\142\314\046\232\233\273
\252\142\203\114\264\006\172\060\310\051\277\355\006\115\227\271
\034\304\061\053\325\137\274\123\022\027\234\231\127\051\146\167
\141\041\061\007\056\045\111\235\030\362\356\363\053\161\214\265
\272\071\007\111\167\374\357\056\222\220\005\215\055\057\167\173
\357\103\277\065\273\232\330\371\163\247\054\362\320\127\356\050
\116\046\137\217\220\150\011\057\270\370\334\006\351\056\232\076
\121\247\321\042\304\012\247\070\110\154\263\371\377\175\253\206
\127\343\272\326\205\170\167\272\103\352\110\177\366\330\276\043
\155\036\277\321\066\154\130\134\361\356\244\031\124\032\365\003
\322\166\346\341\214\275\074\263\323\110\113\342\310\370\177\222
\250\166\106\234\102\145\076\244\036\301\007\003\132\106\055\270
\227\363\267\325\262\125\041\357\272\334\114\000\227\373\024\225
\047\063\277\350\103\107\106\322\010\231\026\140\073\232\176\322
\346\355\070\352\354\001\036\074\110\126\111\011\307\114\067\000
\236\210\016\300\163\341\157\146\351\162\107\060\076\020\345\013
\003\311\232\102\000\154\305\224\176\141\304\212\337\177\202\032
\013\131\304\131\062\167\263\274\140\151\126\071\375\264\006\173
\054\326\144\066\331\275\110\355\204\037\176\245\042\217\052\270
\102\364\202\267\324\123\220\170\116\055\032\375\201\157\104\327
\073\001\164\226\102\340\000\342\056\153\352\305\356\162\254\273
\277\376\352\252\250\370\334\366\262\171\212\266\147\002\003\001

\000\001\243\102\060\100\060\035\006\003\125\035\016\004\026\004
\024\235\300\147\246\014\042\331\046\365\105\253\246\145\122\021
\047\330\105\254\143\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\015\006\011\052\206\110\206\367\015
\001\001\014\005\000\003\202\002\001\000\263\127\115\020\142\116
\072\344\254\352\270\034\257\062\043\310\263\111\132\121\234\166
\050\215\171\252\127\106\027\325\365\122\366\267\104\350\010\104
\277\030\204\322\013\200\315\305\022\375\000\125\005\141\207\101
\334\265\044\236\074\304\330\310\373\160\236\057\170\226\203\040
\066\336\174\017\151\023\210\245\165\066\230\010\246\306\337\254
\316\343\130\326\267\076\336\272\363\353\064\100\330\242\201\365
\170\077\057\325\245\374\331\242\324\136\004\016\027\255\376\101
\360\345\262\162\372\104\202\063\102\350\055\130\367\126\214\142
\077\272\102\260\234\014\134\176\056\145\046\134\123\117\000\262
\170\176\241\015\231\055\215\270\035\216\242\304\260\375\140\320
\060\244\216\310\004\142\251\304\355\065\336\172\227\355\016\070
\136\222\057\223\160\245\251\234\157\247\175\023\035\176\306\010
\110\261\136\147\353\121\010\045\351\346\045\153\122\051\221\234
\322\071\163\010\127\336\231\006\264\133\235\020\006\341\302\000
\250\270\034\112\002\012\024\320\301\101\312\373\214\065\041\175
\202\070\362\251\124\221\031\065\223\224\155\152\072\305\262\320
\273\211\206\223\350\233\311\017\072\247\172\270\241\360\170\106
\372\374\067\057\345\212\204\363\337\376\004\331\241\150\240\057
\044\342\011\225\006\325\225\312\341\044\226\353\174\366\223\005
\273\355\163\351\055\321\165\071\327\347\044\333\330\116\137\103
\217\236\320\024\071\277\125\160\110\231\127\061\264\234\356\112
\230\003\226\060\037\140\006\356\033\043\376\201\140\043\032\107
\142\205\245\314\031\064\200\157\263\254\032\343\237\360\173\110
\255\325\001\331\147\266\251\162\223\352\055\146\265\262\270\344
\075\074\262\357\114\214\352\353\007\277\253\065\232\125\206\274
\030\246\265\250\136\264\203\154\153\151\100\323\237\334\361\303
\151\153\271\341\155\011\364\361\252\120\166\012\172\175\172\027
\241\125\226\102\231\061\011\335\140\021\215\005\060\176\346\216
\106\321\235\024\332\307\027\344\005\226\214\304\044\265\033\317
\024\007\262\100\370\243\236\101\206\274\004\320\153\226\310\052
\200\064\375\277\357\006\243\335\130\305\205\075\076\217\376\236
\051\340\266\270\011\150\031\034\030\103
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "AffirmTrust Premium"
Issuer: CN=AffirmTrust Premium,O=AffirmTrust,C=US
Serial Number:6d:8c:14:46:b1:a6:0a:ee
Subject: CN=AffirmTrust Premium,O=AffirmTrust,C=US
Not Valid Before: Fri Jan 29 14:10:36 2010

```
# Not Valid After : Mon Dec 31 14:10:36 2040
# Fingerprint (SHA-256):
70:A7:3F:7F:37:6B:60:07:42:48:90:45:34:B1:14:82:D5:BF:0E:69:8E:CC:49:8D:F5:25:77:EB:F2:E9:3B:9A
# Fingerprint (SHA1): D8:A6:33:2C:E0:03:6F:B1:85:F6:63:4F:7D:6A:06:65:26:32:28:27
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Premium"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\330\246\063\054\340\003\157\261\205\366\143\117\175\152\006\145
\046\062\050\047
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\304\135\016\110\266\254\050\060\116\012\274\371\070\026\207\127
END
CKA_ISSUER MULTILINE_OCTAL
\060\101\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\034\060\032\006\003\125\004\003\014\023
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\155\214\024\106\261\246\012\356
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "AffirmTrust Premium ECC"
#
# Issuer: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
# Serial Number:74:97:25:8a:c7:3f:7a:54
# Subject: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:20:24 2010
# Not Valid After : Mon Dec 31 14:20:24 2040
# Fingerprint (SHA-256):
BD:71:FD:F6:DA:97:E4:CF:62:D1:64:7A:DD:25:81:B0:7D:79:AD:F8:39:7E:B4:EC:BA:9C:5E:84:88:82:14:23
# Fingerprint (SHA1): B8:23:6B:00:2F:1D:16:86:53:01:55:6C:11:A4:37:CA:EB:FF:C3:BB
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Premium ECC"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
```

CKA_SUBJECT MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\040\060\036\006\003\125\004\003\014\027
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155\040\105\103\103
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\040\060\036\006\003\125\004\003\014\027
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155\040\105\103\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\164\227\045\212\307\077\172\124
END
CKA_VALUE MULTILINE_OCTAL
\060\202\001\376\060\202\001\205\240\003\002\001\002\002\010\164
\227\045\212\307\077\172\124\060\012\006\010\052\206\110\316\075
\004\003\003\060\105\061\013\060\011\006\003\125\004\006\023\002
\125\123\061\024\060\022\006\003\125\004\012\014\013\101\146\146
\151\162\155\124\162\165\163\164\061\040\060\036\006\003\125\004
\003\014\027\101\146\146\151\162\155\124\162\165\163\164\040\120
\162\145\155\151\165\155\040\105\103\103\060\036\027\015\061\060
\060\061\062\071\061\064\062\060\062\064\132\027\015\064\060\061
\062\063\061\061\064\062\060\062\064\132\060\105\061\013\060\011
\006\003\125\004\006\023\002\125\123\061\024\060\022\006\003\125
\004\012\014\013\101\146\146\151\162\155\124\162\165\163\164\061
\040\060\036\006\003\125\004\003\014\027\101\146\146\151\162\155
\124\162\165\163\164\040\120\162\145\155\151\165\155\040\105\103
\103\060\166\060\020\006\007\052\206\110\316\075\002\001\006\005
\053\201\004\000\042\003\142\000\004\015\060\136\033\025\235\003
\320\241\171\065\267\072\074\222\172\312\025\034\315\142\363\234
\046\134\007\075\345\124\372\243\326\314\022\352\364\024\137\350
\216\031\253\057\056\110\346\254\030\103\170\254\320\067\303\275
\262\315\054\346\107\342\032\346\143\270\075\056\057\170\304\117
\333\364\017\244\150\114\125\162\153\225\035\116\030\102\225\170
\314\067\074\221\342\233\145\053\051\243\102\060\100\060\035\006
\003\125\035\016\004\026\004\024\232\257\051\172\300\021\065\065
\046\121\060\000\303\152\376\100\325\256\326\074\060\017\006\003
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\012\006
\010\052\206\110\316\075\004\003\003\003\147\000\060\144\002\060
\027\011\363\207\210\120\132\257\310\300\102\277\107\137\365\154
\152\206\340\304\047\164\344\070\123\327\005\177\033\064\343\306
\057\263\312\011\074\067\235\327\347\270\106\361\375\241\342\161

\002\060\102\131\207\103\324\121\337\272\323\011\062\132\316\210
\176\127\075\234\137\102\153\365\007\055\265\360\202\223\371\131
\157\256\144\372\130\345\213\036\343\143\276\265\201\315\157\002
\214\171
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "AffirmTrust Premium ECC"
Issuer: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
Serial Number:74:97:25:8a:c7:3f:7a:54
Subject: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
Not Valid Before: Fri Jan 29 14:20:24 2010
Not Valid After : Mon Dec 31 14:20:24 2040
Fingerprint (SHA-256):
BD:71:FD:F6:DA:97:E4:CF:62:D1:64:7A:DD:25:81:B0:7D:79:AD:F8:39:7E:B4:EC:BA:9C:5E:84:88:82:14:23
Fingerprint (SHA1): B8:23:6B:00:2F:1D:16:86:53:01:55:6C:11:A4:37:CA:EB:FF:C3:BB
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Premium ECC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\270\043\153\000\057\035\026\206\123\001\125\154\021\244\067\312
\353\377\303\273
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\144\260\011\125\317\261\325\231\342\276\023\253\246\135\352\115
END
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\040\060\036\006\003\125\004\003\014\027
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155\040\105\103\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\164\227\045\212\307\077\172\124
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Certum Trusted Network CA"
#

Issuer: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
Serial Number: 279744 (0x444c0)
Subject: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
Not Valid Before: Wed Oct 22 12:07:37 2008
Not Valid After : Mon Dec 31 12:07:37 2029
Fingerprint (SHA-256): 5C:58:46:8D:55:F5:8E:49:7E:74:39:82:D2:B5:00:10:B6:D1:65:37:4A:CF:83:A7:D4:A3:2D:B7:68:C4:40:8E
Fingerprint (SHA1): 07:E0:32:E0:20:B7:2C:3F:19:2F:06:28:A2:59:3A:19:A7:0F:06:9E
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\176\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145\164
\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040\123
\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145
\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060\040
\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124\162
\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\176\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145\164
\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040\123
\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145
\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060\040
\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124\162
\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\004\104\300
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\273\060\202\002\243\240\003\002\001\002\002\003\004
\104\300\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\000\060\176\061\013\060\011\006\003\125\004\006\023\002\120\114
\061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145
\164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103
\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164

\151\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060
\040\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124
\162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103
\101\060\036\027\015\060\070\061\060\062\062\061\062\060\067\063
\067\132\027\015\062\071\061\062\063\061\061\062\060\067\063\067
\132\060\176\061\013\060\011\006\003\125\004\006\023\002\120\114
\061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145
\164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103
\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060
\040\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124
\162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103
\101\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001
\001\000\343\373\175\243\162\272\302\360\311\024\207\365\153\001
\116\341\156\100\007\272\155\047\135\177\367\133\055\263\132\307
\121\137\253\244\062\246\141\207\266\156\017\206\322\060\002\227
\370\327\151\127\241\030\071\135\152\144\171\306\001\131\254\074
\061\112\070\174\322\004\322\113\050\350\040\137\073\007\242\314
\115\163\333\363\256\117\307\126\325\132\247\226\211\372\363\253
\150\324\043\206\131\047\317\011\047\274\254\156\162\203\034\060
\162\337\340\242\351\322\341\164\165\031\275\052\236\173\025\124
\004\033\327\103\071\255\125\050\305\342\032\273\364\300\344\256
\070\111\063\314\166\205\237\071\105\322\244\236\362\022\214\121
\370\174\344\055\177\365\254\137\353\026\237\261\055\321\272\314
\221\102\167\114\045\311\220\070\157\333\360\314\373\216\036\227
\131\076\325\140\116\346\005\050\355\111\171\023\113\272\110\333
\057\371\162\323\071\312\376\037\330\064\162\365\264\100\317\061
\001\303\354\336\021\055\027\135\037\270\120\321\136\031\247\151
\336\007\063\050\312\120\225\371\247\124\313\124\206\120\105\251
\371\111\002\003\001\000\001\243\102\060\100\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003
\125\035\016\004\026\004\024\010\166\315\313\007\377\044\366\305
\315\355\273\220\274\342\204\067\106\165\367\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\006\060\015\006\011\052
\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000\246
\250\255\042\316\001\075\246\243\377\142\320\110\235\213\136\162
\260\170\104\343\334\034\257\011\375\043\110\372\275\052\304\271
\125\004\265\020\243\215\047\336\013\202\143\320\356\336\014\067
\171\101\133\042\262\260\232\101\134\246\160\340\324\320\167\313
\043\323\000\340\154\126\057\341\151\015\015\331\252\277\041\201
\120\331\006\245\250\377\225\067\320\252\376\342\263\365\231\055
\105\204\212\345\102\011\327\164\002\057\367\211\330\231\351\274
\047\324\107\215\272\015\106\034\167\317\024\244\034\271\244\061
\304\234\050\164\003\064\377\063\031\046\245\351\015\164\267\076
\227\306\166\350\047\226\243\146\335\341\256\362\101\133\312\230
\126\203\163\160\344\206\032\322\061\101\272\057\276\055\023\132

\166\157\116\350\116\201\016\077\133\003\042\240\022\276\146\130
\021\112\313\003\304\264\052\052\055\226\027\340\071\124\274\110
\323\166\047\235\232\055\006\246\311\354\071\322\253\333\237\232
\013\047\002\065\051\261\100\225\347\371\350\234\125\210\031\106
\326\267\064\365\176\316\071\232\331\070\361\121\367\117\054
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Certum Trusted Network CA"
Issuer: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
Serial Number: 279744 (0x444c0)
Subject: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
Not Valid Before: Wed Oct 22 12:07:37 2008
Not Valid After : Mon Dec 31 12:07:37 2029
Fingerprint (SHA-256): 5C:58:46:8D:55:F5:8E:49:7E:74:39:82:D2:B5:00:10:B6:D1:65:37:4A:CF:83:A7:D4:A3:2D:B7:68:C4:40:8E
Fingerprint (SHA1): 07:E0:32:E0:20:B7:2C:3F:19:2F:06:28:A2:59:3A:19:A7:0F:06:9E
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\007\340\062\340\040\267\054\077\031\057\006\050\242\131\072\031
\247\017\006\236
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\325\351\201\100\305\030\151\374\106\054\211\165\142\017\252\170
END
CKA_ISSUER MULTILINE_OCTAL
\060\176\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145\164
\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040\123
\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145
\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060\040
\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124\162
\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\004\104\300
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "TWCA Root Certification Authority"
#
Issuer: CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW
Serial Number: 1 (0x1)
Subject: CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW
Not Valid Before: Thu Aug 28 07:24:33 2008
Not Valid After : Tue Dec 31 15:59:59 2030
Fingerprint (SHA-256):
BF:D8:8F:E1:10:1C:41:AE:3E:80:1B:F8:BE:56:35:0E:E9:BA:D1:A6:B9:BD:51:5E:DC:5C:6D:5B:87:11:AC:44
Fingerprint (SHA1): CF:9E:87:6D:D3:EB:FC:42:26:97:A3:B5:A3:7A:A0:76:A9:06:23:48
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\014\011\124\101\111\127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\014\007\122\157
\157\164\040\103\101\061\052\060\050\006\003\125\004\003\014\041
\124\127\103\101\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\014\011\124\101\111\127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\014\007\122\157
\157\164\040\103\101\061\052\060\050\006\003\125\004\003\014\041
\124\127\103\101\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\173\060\202\002\143\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\137\061\013\060\011\006\003\125\004\006\023\002\124\127\061\022
\060\020\006\003\125\004\012\014\011\124\101\111\127\101\116\055
\103\101\061\020\060\016\006\003\125\004\013\014\007\122\157\157

\164\040\103\101\061\052\060\050\006\003\125\004\003\014\041\124
\127\103\101\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\060\036\027\015\060\070\060\070\062\070\060\067\062\064\063\063
\132\027\015\063\060\061\062\063\061\061\065\065\071\065\071\132
\060\137\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\014\011\124\101\111\127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\014\007\122\157
\157\164\040\103\101\061\052\060\050\006\003\125\004\003\014\041
\124\127\103\101\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001
\001\000\260\176\162\270\244\003\224\346\247\336\011\070\221\112
\021\100\207\247\174\131\144\024\173\265\021\020\335\376\277\325
\300\273\126\342\205\045\364\065\162\017\370\123\320\101\341\104
\001\302\264\034\303\061\102\026\107\205\063\042\166\262\012\157
\017\345\045\120\117\205\206\276\277\230\056\020\147\036\276\021
\005\206\005\220\304\131\320\174\170\020\260\200\134\267\341\307
\053\165\313\174\237\256\265\321\235\043\067\143\247\334\102\242
\055\222\004\033\120\301\173\270\076\033\311\126\004\213\057\122
\233\255\251\126\351\301\377\255\251\130\207\060\266\201\367\227
\105\374\031\127\073\053\157\344\107\364\231\105\376\035\361\370
\227\243\210\035\067\034\134\217\340\166\045\232\120\370\240\124
\377\104\220\166\043\322\062\306\303\253\006\277\374\373\277\363
\255\175\222\142\002\133\051\323\065\243\223\232\103\144\140\135
\262\372\062\377\073\004\257\115\100\152\371\307\343\357\043\375
\153\313\345\017\213\070\015\356\012\374\376\017\230\237\060\061
\335\154\122\145\371\213\201\276\042\341\034\130\003\272\221\033
\211\007\002\003\001\000\001\243\102\060\100\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\006\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003
\125\035\016\004\026\004\024\152\070\133\046\215\336\213\132\362
\117\172\124\203\031\030\343\010\065\246\272\060\015\006\011\052
\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000\074
\325\167\075\332\337\211\272\207\014\010\124\152\040\120\222\276
\260\101\075\271\046\144\203\012\057\350\100\300\227\050\047\202
\060\112\311\223\377\152\347\246\000\177\211\102\232\326\021\345
\123\316\057\314\362\332\005\304\376\342\120\304\072\206\175\314
\332\176\020\011\073\222\065\052\123\262\376\353\053\005\331\154
\135\346\320\357\323\152\146\236\025\050\205\172\350\202\000\254
\036\247\011\151\126\102\323\150\121\030\276\124\232\277\104\101
\272\111\276\040\272\151\134\356\270\167\315\316\154\037\255\203
\226\030\175\016\265\024\071\204\361\050\351\055\243\236\173\036
\172\162\132\203\263\171\157\357\264\374\320\012\245\130\117\106
\337\373\155\171\131\362\204\042\122\256\017\314\373\174\073\347
\152\312\107\141\303\172\370\323\222\004\037\270\040\204\341\066
\124\026\307\100\336\073\212\163\334\337\306\011\114\337\354\332

```
\377\324\123\102\241\311\362\142\035\042\203\074\227\305\371\031
\142\047\254\145\042\327\323\074\306\345\216\262\123\314\111\316
\274\060\376\173\016\063\220\373\355\322\024\221\037\007\257
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "TWCA Root Certification Authority"
# Issuer: CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number: 1 (0x1)
# Subject: CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW
# Not Valid Before: Thu Aug 28 07:24:33 2008
# Not Valid After : Tue Dec 31 15:59:59 2030
# Fingerprint (SHA-256):
BF:D8:8F:E1:10:1C:41:AE:3E:80:1B:F8:BE:56:35:0E:E9:BA:D1:A6:B9:BD:51:5E:DC:5C:6D:5B:87:11:AC:44
# Fingerprint (SHA1): CF:9E:87:6D:D3:EB:FC:42:26:97:A3:B5:A3:7A:A0:76:A9:06:23:48
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Root Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\317\236\207\155\323\353\374\102\046\227\243\265\243\172\240\166
\251\006\043\110
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\252\010\217\366\371\173\267\362\261\247\036\233\352\352\275\171
END
CKA_ISSUER MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\014\011\124\101\111\127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\014\007\122\157
\157\164\040\103\101\061\052\060\050\006\003\125\004\003\014\041
\124\127\103\101\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Explicitly Distrust DigiNotar Root CA"
```

```
#
# Issuer: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Serial Number:0f:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff
# Subject: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Not Valid Before: Fri Jul 27 17:19:37 2007
# Not Valid After : Mon Mar 31 18:19:22 2025
# Fingerprint (MD5): 0A:A4:D5:CC:BA:B4:FB:A3:59:E3:E6:01:DD:53:D9:4E
# Fingerprint (SHA1): C1:77:CB:4B:E0:B4:26:8E:F5:C7:CF:45:99:22:B9:B0:CE:BA:21:2F
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrust DigiNotar Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\022\060\020\006\003\125\004\012\023\011\104\151\147\151\116\157
\164\141\162\061\032\060\030\006\003\125\004\003\023\021\104\151
\147\151\116\157\164\141\162\040\122\157\157\164\040\103\101\061
\040\060\036\006\011\052\206\110\206\367\015\001\011\001\026\021
\151\156\146\157\100\144\151\147\151\156\157\164\141\162\056\156
\154
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\022\060\020\006\003\125\004\012\023\011\104\151\147\151\116\157
\164\141\162\061\032\060\030\006\003\125\004\003\023\021\104\151
\147\151\116\157\164\141\162\040\122\157\157\164\040\103\101\061
\040\060\036\006\011\052\206\110\206\367\015\001\011\001\026\021
\151\156\146\157\100\144\151\147\151\156\157\164\141\162\056\156
\154
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\017\377\377\377\377\377\377\377\377\377\377\377\377\377\377
\377\377
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\212\060\202\003\162\240\003\002\001\002\002\020\017
\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\137
\061\013\060\011\006\003\125\004\006\023\002\116\114\061\022\060
\020\006\003\125\004\012\023\011\104\151\147\151\116\157\164\141
\162\061\032\060\030\006\003\125\004\003\023\021\104\151\147\151
\116\157\164\141\162\040\122\157\157\164\040\103\101\061\040\060
\036\006\011\052\206\110\206\367\015\001\011\001\026\021\151\156
\146\157\100\144\151\147\151\156\157\164\141\162\056\156\154\060
\036\027\015\060\067\060\067\062\067\061\067\061\071\063\067\132
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\027\015\062\065\060\063\063\061\061\070\061\071\062\062\132\060
\137\061\013\060\011\006\003\125\004\006\023\002\116\114\061\022
\060\020\006\003\125\004\012\023\011\104\151\147\151\116\157\164
\141\162\061\032\060\030\006\003\125\004\003\023\021\104\151\147
\151\116\157\164\141\162\040\122\157\157\164\040\103\101\061\040
\060\036\006\011\052\206\110\206\367\015\001\011\001\026\021\151
\156\146\157\100\144\151\147\151\156\157\164\141\162\056\156\154
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001
\000\254\260\130\301\000\275\330\041\010\013\053\232\376\156\126
\060\005\237\033\167\220\020\101\134\303\015\207\021\167\216\201
\361\312\174\351\214\152\355\070\164\065\273\332\337\371\273\300
\011\067\264\226\163\201\175\063\032\230\071\367\223\157\225\177
\075\271\261\165\207\272\121\110\350\213\160\076\225\004\305\330
\266\303\026\331\210\260\261\207\035\160\332\206\264\017\024\213
\172\317\020\321\164\066\242\022\173\167\206\112\171\346\173\337
\002\021\150\245\116\206\256\064\130\233\044\023\170\126\042\045
\036\001\213\113\121\161\373\202\314\131\226\151\210\132\150\123
\305\271\015\002\067\313\113\274\146\112\220\176\052\013\005\007
\355\026\137\125\220\165\330\106\311\033\203\342\010\276\361\043
\314\231\035\326\052\017\203\040\025\130\047\202\056\372\342\042
\302\111\261\271\001\201\152\235\155\235\100\167\150\166\116\041
\052\155\204\100\205\116\166\231\174\202\363\363\267\002\131\324
\046\001\033\216\337\255\123\006\321\256\030\335\342\262\072\313
\327\210\070\216\254\133\051\271\031\323\230\371\030\003\317\110
\202\206\146\013\033\151\017\311\353\070\210\172\046\032\005\114
\222\327\044\324\226\362\254\122\055\243\107\325\122\366\077\376
\316\204\006\160\246\252\076\242\362\266\126\064\030\127\242\344
\201\155\347\312\360\152\323\307\221\153\002\203\101\174\025\357
\153\232\144\136\343\320\074\345\261\353\173\135\206\373\313\346
\167\111\315\243\145\334\367\271\234\270\344\013\137\223\317\314
\060\032\062\034\316\034\143\225\245\371\352\341\164\213\236\351
\053\251\060\173\240\030\037\016\030\013\345\133\251\323\321\154
\036\007\147\217\221\113\251\212\274\322\146\252\223\001\210\262
\221\372\061\134\325\246\301\122\010\011\315\012\143\242\323\042
\246\350\241\331\071\006\227\365\156\215\002\220\214\024\173\077
\200\315\033\234\272\304\130\162\043\257\266\126\237\306\172\102
\063\051\007\077\202\311\346\037\005\015\315\114\050\066\213\323
\310\076\034\306\210\357\136\356\211\144\351\035\353\332\211\176
\062\246\151\321\335\314\210\237\321\320\311\146\041\334\006\147
\305\224\172\232\155\142\114\175\314\340\144\200\262\236\107\216
\243\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003\125
\035\016\004\026\004\024\210\150\277\340\216\065\304\073\070\153
\142\367\050\073\204\201\310\014\327\115\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\003\202\002\001\000\073\002
\215\313\074\060\350\156\240\255\362\163\263\137\236\045\023\004

\005\323\366\343\213\273\013\171\316\123\336\344\226\305\321\257
\163\274\325\303\320\100\125\174\100\177\315\033\137\011\325\362
\174\237\150\035\273\135\316\172\071\302\214\326\230\173\305\203
\125\250\325\175\100\312\340\036\367\211\136\143\135\241\023\302
\135\212\266\212\174\000\363\043\303\355\205\137\161\166\360\150
\143\252\105\041\071\110\141\170\066\334\361\103\223\324\045\307
\362\200\145\341\123\002\165\121\374\172\072\357\067\253\204\050
\127\014\330\324\324\231\126\154\343\242\376\131\204\264\061\350
\063\370\144\224\224\121\227\253\071\305\113\355\332\335\200\013
\157\174\051\015\304\216\212\162\015\347\123\024\262\140\101\075
\204\221\061\150\075\047\104\333\345\336\364\372\143\105\310\114
\076\230\365\077\101\272\116\313\067\015\272\146\230\361\335\313
\237\134\367\124\066\202\153\054\274\023\141\227\102\370\170\273
\314\310\242\237\312\360\150\275\153\035\262\337\215\157\007\235
\332\216\147\307\107\036\312\271\277\052\102\221\267\143\123\146
\361\102\243\341\364\132\115\130\153\265\344\244\063\255\134\160
\035\334\340\362\353\163\024\221\232\003\301\352\000\145\274\007
\374\317\022\021\042\054\256\240\275\072\340\242\052\330\131\351
\051\323\030\065\244\254\021\137\031\265\265\033\377\042\112\134
\306\172\344\027\357\040\251\247\364\077\255\212\247\232\004\045
\235\016\312\067\346\120\375\214\102\051\004\232\354\271\317\113
\162\275\342\010\066\257\043\057\142\345\312\001\323\160\333\174
\202\043\054\026\061\014\306\066\007\220\172\261\037\147\130\304
\073\130\131\211\260\214\214\120\263\330\206\313\150\243\304\012
\347\151\113\040\316\301\036\126\113\225\251\043\150\330\060\330
\303\353\260\125\121\315\345\375\053\270\365\273\021\237\123\124
\366\064\031\214\171\011\066\312\141\027\045\027\013\202\230\163
\014\167\164\303\325\015\307\250\022\114\307\247\124\161\107\056
\054\032\175\311\343\053\073\110\336\047\204\247\143\066\263\175
\217\240\144\071\044\015\075\173\207\257\146\134\164\033\113\163
\262\345\214\360\206\231\270\345\305\337\204\301\267\353
END

Trust for Certificate "Explicitly Distrust DigiNotar Root CA"
Issuer: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
Serial Number:0f:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff
Subject: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
Not Valid Before: Fri Jul 27 17:19:37 2007
Not Valid After : Mon Mar 31 18:19:22 2025
Fingerprint (MD5): 0A:A4:D5:CC:BA:B4:FB:A3:59:E3:E6:01:DD:53:D9:4E
Fingerprint (SHA1): C1:77:CB:4B:E0:B4:26:8E:F5:C7:CF:45:99:22:B9:B0:CE:BA:21:2F
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrust DigiNotar Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\301\167\313\113\340\264\046\216\365\307\317\105\231\042\271\260

\316\272\041\057
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\012\244\325\314\272\264\373\243\131\343\346\001\335\123\331\116
END
CKA_ISSUER MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\022\060\020\006\003\125\004\012\023\011\104\151\147\151\116\157
\164\141\162\061\032\060\030\006\003\125\004\003\023\021\104\151
\147\151\116\157\164\141\162\040\122\157\157\164\040\103\101\061
\040\060\036\006\011\052\206\110\206\367\015\001\011\001\026\021
\151\156\146\157\100\144\151\147\151\156\157\164\141\162\056\156
\154
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\017\377\377\377\377\377\377\377\377\377\377\377\377\377\377
\377\377
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Security Communication RootCA2"
#
Issuer: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
Serial Number: 0 (0x0)
Subject: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
Not Valid Before: Fri May 29 05:00:39 2009
Not Valid After : Tue May 29 05:00:39 2029
Fingerprint (SHA-256):
51:3B:2C:EC:B8:10:D4:CD:E5:DD:85:39:1A:DF:C6:C2:DD:60:D8:7B:B7:36:D2:B5:21:48:4A:A4:7A:0E:BE:F6
Fingerprint (SHA1): 5F:3B:8C:F2:F8:10:B3:7D:78:B4:CE:EC:19:19:C3:73:34:B9:C7:74
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication RootCA2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\047\060\045\006\003\125\004\013\023
\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\122\157\157\164\103\101\062
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\047\060\045\006\003\125\004\013\023
\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\122\157\157\164\103\101\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\167\060\202\002\137\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061\045
\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040\124
\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117\056
\054\114\124\104\056\061\047\060\045\006\003\125\004\013\023\036
\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156\151
\143\141\164\151\157\156\040\122\157\157\164\103\101\062\060\036
\027\015\060\071\060\065\062\071\060\065\060\060\063\071\132\027
\015\062\071\060\065\062\071\060\065\060\060\063\071\132\060\135
\061\013\060\011\006\003\125\004\006\023\002\112\120\061\045\060
\043\006\003\125\004\012\023\034\123\105\103\117\115\040\124\162
\165\163\164\040\123\171\163\164\145\155\163\040\103\117\056\054
\114\124\104\056\061\047\060\045\006\003\125\004\013\023\036\123
\145\143\165\162\151\164\171\040\103\157\155\155\165\156\151\143
\141\164\151\157\156\040\122\157\157\164\103\101\062\060\202\001
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000
\003\202\001\017\000\060\202\001\012\002\202\001\001\000\320\025
\071\122\261\122\263\272\305\131\202\304\135\122\256\072\103\145
\200\113\307\362\226\274\333\066\227\326\246\144\214\250\136\360
\343\012\034\367\337\227\075\113\256\366\135\354\041\265\101\253
\315\271\176\166\237\276\371\076\066\064\240\073\301\366\061\021
\105\164\223\075\127\200\305\371\211\231\312\345\253\152\324\265
\332\101\220\020\301\326\326\102\211\302\277\364\070\022\225\114
\124\005\367\066\344\105\203\173\024\145\326\334\014\115\321\336
\176\014\253\073\304\025\276\072\126\246\132\157\166\151\122\251
\172\271\310\353\152\232\135\122\320\055\012\153\065\026\011\020
\204\320\152\312\072\006\000\067\107\344\176\127\117\077\213\353
\147\270\210\252\305\276\123\125\262\221\304\175\271\260\205\031
\006\170\056\333\141\032\372\205\365\112\221\241\347\026\325\216
\242\071\337\224\270\160\037\050\077\213\374\100\136\143\203\074
\203\052\032\231\153\317\336\131\152\073\374\157\026\327\037\375
\112\020\353\116\202\026\072\254\047\014\123\361\255\325\044\260
\153\003\120\301\055\074\026\335\104\064\047\032\165\373\002\003
\001\000\001\243\102\060\100\060\035\006\003\125\035\016\004\026

\004\024\012\205\251\167\145\005\230\174\100\201\370\017\227\054
\070\361\012\354\074\317\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\003\202\001\001\000\114\072\243\104\254
\271\105\261\307\223\176\310\013\012\102\337\144\352\034\356\131
\154\010\272\211\137\152\312\112\225\236\172\217\007\305\332\105
\162\202\161\016\072\322\314\157\247\264\241\043\273\366\044\237
\313\027\376\214\246\316\302\322\333\314\215\374\161\374\003\051
\301\154\135\063\137\144\266\145\073\211\157\030\166\170\365\334
\242\110\037\031\077\216\223\353\361\372\027\356\315\116\343\004
\022\125\326\345\344\335\373\076\005\174\342\035\136\306\247\274
\227\117\150\072\365\351\056\012\103\266\257\127\134\142\150\174
\267\375\243\212\204\240\254\142\276\053\011\207\064\360\152\001
\273\233\051\126\074\376\000\067\317\043\154\361\116\252\266\164
\106\022\154\221\356\064\325\354\232\221\347\104\276\220\061\162
\325\111\002\366\002\345\364\037\353\174\331\226\125\251\377\354
\212\371\231\107\377\065\132\002\252\004\313\212\133\207\161\051
\221\275\244\264\172\015\275\232\365\127\043\000\007\041\027\077
\112\071\321\005\111\013\247\266\067\201\245\135\214\252\063\136
\201\050\174\247\175\047\353\000\256\215\067
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Security Communication RootCA2"
Issuer: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
Serial Number: 0 (0x0)
Subject: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
Not Valid Before: Fri May 29 05:00:39 2009
Not Valid After : Tue May 29 05:00:39 2029
Fingerprint (SHA-256):
51:3B:2C:EC:B8:10:D4:CD:E5:DD:85:39:1A:DF:C6:C2:DD:60:D8:7B:B7:36:D2:B5:21:48:4A:A4:7A:0E:BE:F6
Fingerprint (SHA1): 5F:3B:8C:F2:F8:10:B3:7D:78:B4:CE:EC:19:19:C3:73:34:B9:C7:74
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication RootCA2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\137\073\214\362\370\020\263\175\170\264\316\354\031\031\303\163
\064\271\307\164
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\154\071\175\244\016\125\131\262\077\326\101\261\022\120\336\103
END
CKA_ISSUER MULTILINE_OCTAL

\060\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\047\060\045\006\003\125\004\013\023
\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\122\157\157\164\103\101\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "EC-ACC"
#
Issuer: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
Serial Number:ee:2b:3d:eb:d4:21:de:14:a8:62:ac:04:f3:dd:c4:01
Subject: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
Not Valid Before: Tue Jan 07 23:00:00 2003
Not Valid After : Tue Jan 07 22:59:59 2031
Fingerprint (SHA-256):
88:49:7F:01:60:2F:31:54:24:6A:E2:8C:4D:5A:EF:10:F1:D8:7E:BB:76:62:6F:4A:E0:B7:F9:5B:A7:96:87:99
Fingerprint (SHA1): 28:90:3A:63:5B:52:80:FA:E6:77:4C:0B:6D:A7:D6:BA:A6:4A:F2:E8
For Server Distrust After: Sat Dec 28 00:00:00 2019
For Email Distrust After: Wed Aug 31 00:00:00 2022
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "EC-ACC"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\363\061\013\060\011\006\003\125\004\006\023\002\105\123
\061\073\060\071\006\003\125\004\012\023\062\101\147\145\156\143
\151\141\040\103\141\164\141\154\141\156\141\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\040\050\116\111\106
\040\121\055\060\070\060\061\061\067\066\055\111\051\061\050\060
\046\006\003\125\004\013\023\037\123\145\162\166\145\151\163\040
\120\165\142\154\151\143\163\040\144\145\040\103\145\162\164\151
\146\151\143\141\143\151\157\061\065\060\063\006\003\125\004\013
\023\054\126\145\147\145\165\040\150\164\164\160\163\072\057\057
\167\167\167\056\143\141\164\143\145\162\164\056\156\145\164\057

\166\145\162\141\162\162\145\154\040\050\143\051\060\063\061\065
\060\063\006\003\125\004\013\023\054\112\145\162\141\162\161\165
\151\141\040\105\156\164\151\164\141\164\163\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\040\103\141\164\141
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\105\103\055\101\103\103
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\061\073\060\071\006\003\125\004\012\023\062\101\147\145\156\143
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\145\162\164\151\146\151\143\141\143\151\157\040\050\116\111\106
\040\121\055\060\070\060\061\061\067\066\055\111\051\061\050\060
\046\006\003\125\004\013\023\037\123\145\162\166\145\151\163\040
\120\165\142\154\151\143\163\040\144\145\040\103\145\162\164\151
\146\151\143\141\143\151\157\061\065\060\063\006\003\125\004\013
\023\054\126\145\147\145\165\040\150\164\164\160\163\072\057\057
\167\167\167\056\143\141\164\143\145\162\164\056\156\145\164\057
\166\145\162\141\162\162\145\154\040\050\143\051\060\063\061\065
\060\063\006\003\125\004\013\023\054\112\145\162\141\162\161\165
\151\141\040\105\156\164\151\164\141\164\163\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\040\103\141\164\141
\154\141\156\145\163\061\017\060\015\006\003\125\004\003\023\006
\105\103\055\101\103\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\356\053\075\353\324\041\336\024\250\142\254\004\363\335
\304\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\126\060\202\004\076\240\003\002\001\002\002\020\356
\053\075\353\324\041\336\024\250\142\254\004\363\335\304\001\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\201
\363\061\013\060\011\006\003\125\004\006\023\002\105\123\061\073
\060\071\006\003\125\004\012\023\062\101\147\145\156\143\151\141
\040\103\141\164\141\154\141\156\141\040\144\145\040\103\145\162
\164\151\146\151\143\141\143\151\157\040\050\116\111\106\040\121
\055\060\070\060\061\061\067\066\055\111\051\061\050\060\046\006
\003\125\004\013\023\037\123\145\162\166\145\151\163\040\120\165
\142\154\151\143\163\040\144\145\040\103\145\162\164\151\146\151
\143\141\143\151\157\061\065\060\063\006\003\125\004\013\023\054
\126\145\147\145\165\040\150\164\164\160\163\072\057\057\167\167
\167\056\143\141\164\143\145\162\164\056\156\145\164\057\166\145
\162\141\162\162\145\154\040\050\143\051\060\063\061\065\060\063
\006\003\125\004\013\023\054\112\145\162\141\162\161\165\151\141
\040\105\156\164\151\164\141\164\163\040\144\145\040\103\145\162
\164\151\146\151\143\141\143\151\157\040\103\141\164\141\154\141

\156\145\163\061\017\060\015\006\003\125\004\003\023\006\105\103
\055\101\103\103\060\036\027\015\060\063\060\061\060\067\062\063
\060\060\060\060\132\027\015\063\061\060\061\060\067\062\062\065
\071\065\071\132\060\201\363\061\013\060\011\006\003\125\004\006
\023\002\105\123\061\073\060\071\006\003\125\004\012\023\062\101
\147\145\156\143\151\141\040\103\141\164\141\154\141\156\141\040
\144\145\040\103\145\162\164\151\146\151\143\141\143\151\157\040
\050\116\111\106\040\121\055\060\070\060\061\061\067\066\055\111
\051\061\050\060\046\006\003\125\004\013\023\037\123\145\162\166
\145\151\163\040\120\165\142\154\151\143\163\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\061\065\060\063\006
\003\125\004\013\023\054\126\145\147\145\165\040\150\164\164\160
\163\072\057\057\167\167\167\056\143\141\164\143\145\162\164\056
\156\145\164\057\166\145\162\141\162\162\145\154\040\050\143\051
\060\063\061\065\060\063\006\003\125\004\013\023\054\112\145\162
\141\162\161\165\151\141\040\105\156\164\151\164\141\164\163\040
\144\145\040\103\145\162\164\151\146\151\143\141\143\151\157\040
\103\141\164\141\154\141\156\145\163\061\017\060\015\006\003\125
\004\003\023\006\105\103\055\101\103\103\060\202\001\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001
\017\000\060\202\001\012\002\202\001\001\000\263\042\307\117\342
\227\102\225\210\107\203\100\366\035\027\363\203\163\044\036\121
\363\230\212\303\222\270\377\100\220\005\160\207\140\311\000\251
\265\224\145\031\042\025\027\302\103\154\146\104\232\015\004\076
\071\157\245\113\172\252\143\267\212\104\235\331\143\221\204\146
\340\050\017\272\102\343\156\216\367\024\047\223\151\356\221\016
\243\137\016\261\353\146\242\162\117\022\023\206\145\172\076\333
\117\007\364\247\011\140\332\072\102\231\307\262\177\263\026\225
\034\307\371\064\265\224\205\325\231\136\240\110\240\176\347\027
\145\270\242\165\270\036\363\345\102\175\257\355\363\212\110\144
\135\202\024\223\330\300\344\377\263\120\162\362\166\366\263\135
\102\120\171\320\224\076\153\014\000\276\330\153\016\116\052\354
\076\322\314\202\242\030\145\063\023\167\236\232\135\032\023\330
\303\333\075\310\227\172\356\160\355\247\346\174\333\161\317\055
\224\142\337\155\326\365\070\276\077\245\205\012\031\270\250\330
\011\165\102\160\304\352\357\313\016\310\064\250\022\042\230\014
\270\023\224\266\113\354\360\320\220\347\047\002\003\001\000\001
\243\201\343\060\201\340\060\035\006\003\125\035\021\004\026\060
\024\201\022\145\143\137\141\143\143\100\143\141\164\143\145\162
\164\056\156\145\164\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\035\006\003\125\035\016\004\026\004
\024\240\303\213\104\252\067\245\105\277\227\200\132\321\361\170
\242\233\351\135\215\060\177\006\003\125\035\040\004\170\060\166
\060\164\006\013\053\006\001\004\001\365\170\001\003\001\012\060
\145\060\054\006\010\053\006\001\005\005\007\002\001\026\040\150
\164\164\160\163\072\057\057\167\167\167\056\143\141\164\143\145
\162\164\056\156\145\164\057\166\145\162\141\162\162\145\154\060

\065\006\010\053\006\001\005\005\007\002\002\060\051\032\047\126
\145\147\145\165\040\150\164\164\160\163\072\057\057\167\167\167
\056\143\141\164\143\145\162\164\056\156\145\164\057\166\145\162
\141\162\162\145\154\040\060\015\006\011\052\206\110\206\367\015
\001\001\005\005\000\003\202\001\001\000\240\110\133\202\001\366
\115\110\270\071\125\065\234\200\172\123\231\325\132\377\261\161
\073\314\071\011\224\136\326\332\357\276\001\133\135\323\036\330
\375\175\117\315\240\101\340\064\223\277\313\342\206\234\067\222
\220\126\034\334\353\051\005\345\304\236\307\065\337\212\014\315
\305\041\103\351\252\210\345\065\300\031\102\143\132\002\136\244
\110\030\072\205\157\334\235\274\077\235\234\301\207\270\172\141
\010\351\167\013\177\160\253\172\335\331\227\054\144\036\205\277
\274\164\226\241\303\172\022\354\014\032\156\203\014\074\350\162
\106\237\373\110\325\136\227\346\261\241\370\344\357\106\045\224
\234\211\333\151\070\276\354\134\016\126\307\145\121\345\120\210
\210\277\102\325\053\075\345\371\272\236\056\263\312\364\163\222
\002\013\276\114\146\353\040\376\271\313\265\231\177\346\266\023
\372\312\113\115\331\356\123\106\006\073\306\116\255\223\132\201
\176\154\052\113\152\005\105\214\362\041\244\061\220\207\154\145
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\371\210\075\176\270\157\156\003\344\102
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER MULTILINE_OCTAL
\061\071\061\062\062\070\060\060\060\060\060\060\132
END
CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL
\062\062\060\070\063\061\060\060\060\060\060\060\132
END

Trust for "EC-ACC"
Issuer: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
Serial Number:ee:2b:3d:eb:d4:21:de:14:a8:62:ac:04:f3:dd:c4:01
Subject: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
Not Valid Before: Tue Jan 07 23:00:00 2003
Not Valid After : Tue Jan 07 22:59:59 2031
Fingerprint (SHA-256): 88:49:7F:01:60:2F:31:54:24:6A:E2:8C:4D:5A:EF:10:F1:D8:7E:BB:76:62:6F:4A:E0:B7:F9:5B:A7:96:87:99
Fingerprint (SHA1): 28:90:3A:63:5B:52:80:FA:E6:77:4C:0B:6D:A7:D6:BA:A6:4A:F2:E8
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "EC-ACC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

\050\220\072\143\133\122\200\372\346\167\114\013\155\247\326\272
\246\112\362\350
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\353\365\235\051\015\141\371\102\037\174\302\272\155\343\025\011
END
CKA_ISSUER MULTILINE_OCTAL
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\061\073\060\071\006\003\125\004\012\023\062\101\147\145\156\143
\151\141\040\103\141\164\141\154\141\156\141\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\040\050\116\111\106
\040\121\055\060\070\060\061\061\067\066\055\111\051\061\050\060
\046\006\003\125\004\013\023\037\123\145\162\166\145\151\163\040
\120\165\142\154\151\143\163\040\144\145\040\103\145\162\164\151
\146\151\143\141\143\151\157\061\065\060\063\006\003\125\004\013
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\167\167\167\056\143\141\164\143\145\162\164\056\156\145\164\057
\166\145\162\141\162\162\145\154\040\050\143\051\060\063\061\065
\060\063\006\003\125\004\013\023\054\112\145\162\141\162\161\165
\151\141\040\105\156\164\151\164\141\164\163\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\040\103\141\164\141
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\105\103\055\101\103\103
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CKA_SERIAL_NUMBER MULTILINE_OCTAL
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END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Hellenic Academic and Research Institutions RootCA 2011"
#
Issuer: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research Institutions Cert. Authority,C=GR
Serial Number: 0 (0x0)
Subject: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research Institutions Cert. Authority,C=GR
Not Valid Before: Tue Dec 06 13:49:52 2011
Not Valid After : Mon Dec 01 13:49:52 2031
Fingerprint (SHA-256):
BC:10:4F:15:A4:8B:E7:09:DC:A5:42:A7:E1:D4:B9:DF:6F:05:45:27:E8:02:EA:A9:2D:59:54:44:25:8A:FE:71
Fingerprint (SHA1): FE:45:65:9B:79:03:5B:98:A1:61:B5:51:2E:AC:DA:58:09:48:22:4D
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2011"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\225\061\013\060\011\006\003\125\004\006\023\002\107\122
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\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144
\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164
\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165\164
\150\157\162\151\164\171\061\100\060\076\006\003\125\004\003\023
\067\110\145\154\154\145\156\151\143\040\101\143\141\144\145\155
\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150\040
\111\156\163\164\151\164\165\164\151\157\156\163\040\122\157\157
\164\103\101\040\062\060\061\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
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\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154\145
\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144
\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164
\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165\164
\150\157\162\151\164\171\061\100\060\076\006\003\125\004\003\023
\067\110\145\154\154\145\156\151\143\040\101\143\141\144\145\155
\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150\040
\111\156\163\164\151\164\165\164\151\157\156\163\040\122\157\157
\164\103\101\040\062\060\061\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
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\201\225\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\104\060\102\006\003\125\004\012\023\073\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\145\162\164\056\040\101\165\164\150
\157\162\151\164\171\061\100\060\076\006\003\125\004\003\023\067
\110\145\154\154\145\156\151\143\040\101\143\141\144\145\155\151
\143\040\141\156\144\040\122\145\163\145\141\162\143\150\040\111
\156\163\164\151\164\165\164\151\157\156\163\040\122\157\157\164
\103\101\040\062\060\061\061\060\036\027\015\061\061\061\062\060
\066\061\063\064\071\065\062\132\027\015\063\061\061\062\060\061
\061\063\064\071\065\062\132\060\201\225\061\013\060\011\006\003
\125\004\006\023\002\107\122\061\104\060\102\006\003\125\004\012

\023\073\110\145\154\154\145\156\151\143\040\101\143\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\165\164\151\157\156\163\040\103\145
\162\164\056\040\101\165\164\150\157\162\151\164\171\061\100\060
\076\006\003\125\004\003\023\067\110\145\154\154\145\156\151\143
\040\101\143\141\144\145\155\151\143\040\141\156\144\040\122\145
\163\145\141\162\143\150\040\111\156\163\164\151\164\165\164\151
\157\156\163\040\122\157\157\164\103\101\040\062\060\061\061\060
\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001\001
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\251\123\000\343\056\246\366\216\372\140\330\055\225\076\370\054
\052\124\116\315\271\204\141\224\130\117\217\075\213\344\103\363
\165\211\215\121\344\303\067\322\212\210\115\171\036\267\022\335
\103\170\112\212\222\346\327\110\325\017\244\072\051\104\065\270
\007\366\150\035\125\315\070\121\360\214\044\061\205\257\203\311
\175\351\167\257\355\032\173\235\027\371\263\235\070\120\017\246
\132\171\221\200\257\067\256\246\323\061\373\265\046\011\235\074
\132\357\121\305\053\337\226\135\353\062\036\002\332\160\111\354
\156\014\310\232\067\215\367\361\066\140\113\046\054\202\236\320
\170\363\015\017\143\244\121\060\341\371\053\047\022\007\330\352
\275\030\142\230\260\131\067\175\276\356\363\040\121\102\132\203
\357\223\272\151\025\361\142\235\237\231\071\202\241\267\164\056
\213\324\305\013\173\057\360\310\012\332\075\171\012\232\223\034
\245\050\162\163\221\103\232\247\321\115\205\204\271\251\164\217
\024\100\307\334\336\254\101\144\154\264\031\233\002\143\155\044
\144\217\104\262\045\352\316\135\164\014\143\062\134\215\207\345
\002\003\001\000\001\243\201\211\060\201\206\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\013\006\003
\125\035\017\004\004\003\002\001\006\060\035\006\003\125\035\016
\004\026\004\024\246\221\102\375\023\141\112\043\236\010\244\051
\345\330\023\004\043\356\101\045\060\107\006\003\125\035\036\004
\100\060\076\240\074\060\005\202\003\056\147\162\060\005\202\003
\056\145\165\060\006\202\004\056\145\144\165\060\006\202\004\056
\157\162\147\060\005\201\003\056\147\162\060\005\201\003\056\145
\165\060\006\201\004\056\145\144\165\060\006\201\004\056\157\162
\147\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000
\003\202\001\001\000\037\357\171\101\341\173\156\077\262\214\206
\067\102\112\116\034\067\036\215\146\272\044\201\311\117\022\017
\041\300\003\227\206\045\155\135\323\042\051\250\154\242\015\251
\353\075\006\133\231\072\307\314\303\232\064\177\253\016\310\116
\034\341\372\344\334\315\015\276\277\044\376\154\347\153\302\015
\310\006\236\116\215\141\050\246\152\375\345\366\142\352\030\074
\116\240\123\235\262\072\234\353\245\234\221\026\266\115\202\340
\014\005\110\251\154\365\314\370\313\235\111\264\360\002\245\375
\160\003\355\212\041\245\256\023\206\111\303\063\163\276\207\073
\164\213\027\105\046\114\026\221\203\376\147\175\315\115\143\147
\372\363\003\022\226\170\006\215\261\147\355\216\077\276\237\117
\002\365\263\011\057\363\114\207\337\052\313\225\174\001\314\254

\066\172\277\242\163\172\367\217\301\265\232\241\024\262\217\063
\237\015\357\042\334\146\173\204\275\105\027\006\075\074\312\271
\167\064\217\312\352\317\077\061\076\343\210\343\200\111\045\310
\227\265\235\232\231\115\260\074\370\112\000\233\144\335\237\071
\113\321\047\327\270
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Hellenic Academic and Research Institutions RootCA 2011"
Issuer: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research Institutions Cert. Authority,C=GR
Serial Number: 0 (0x0)
Subject: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research Institutions Cert. Authority,C=GR
Not Valid Before: Tue Dec 06 13:49:52 2011
Not Valid After : Mon Dec 01 13:49:52 2031
Fingerprint (SHA-256):
BC:10:4F:15:A4:8B:E7:09:DC:A5:42:A7:E1:D4:B9:DF:6F:05:45:27:E8:02:EA:A9:2D:59:54:44:25:8A:FE:71
Fingerprint (SHA1): FE:45:65:9B:79:03:5B:98:A1:61:B5:51:2E:AC:DA:58:09:48:22:4D
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2011"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\376\105\145\233\171\003\133\230\241\141\265\121\056\254\332\130
\011\110\042\115
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\163\237\114\113\163\133\171\351\372\272\034\357\156\313\325\311
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\225\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154\145
\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144
\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164
\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165\164
\150\157\162\151\164\171\061\100\060\076\006\003\125\004\003\023
\067\110\145\154\154\145\156\151\143\040\101\143\141\144\145\155
\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150\040
\111\156\163\164\151\164\165\164\151\157\156\163\040\122\157\157
\164\103\101\040\062\060\061\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Actalis Authentication Root CA"
#
Issuer: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
Serial Number:57:0a:11:97:42:c4:e3:cc
Subject: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
Not Valid Before: Thu Sep 22 11:22:02 2011
Not Valid After : Sun Sep 22 11:22:02 2030
Fingerprint (SHA-256):
55:92:60:84:EC:96:3A:64:B9:6E:2A:BE:01:CE:0B:A8:6A:64:FB:FE:BC:C7:AA:B5:AF:C1:55:B3:7F:D7:60:66
Fingerprint (SHA1): F3:73:B3:87:06:5A:28:84:8A:F2:F3:4A:CE:19:2B:DD:C7:8E:9C:AC
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Actalis Authentication Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\153\061\013\060\011\006\003\125\004\006\023\002\111\124\061
\016\060\014\006\003\125\004\007\014\005\115\151\154\141\156\061
\043\060\041\006\003\125\004\012\014\032\101\143\164\141\154\151
\163\040\123\056\160\056\101\056\057\060\063\063\065\070\065\062
\060\071\066\067\061\047\060\045\006\003\125\004\003\014\036\101
\143\164\141\154\151\163\040\101\165\164\150\145\156\164\151\143
\141\164\151\157\156\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\153\061\013\060\011\006\003\125\004\006\023\002\111\124\061
\016\060\014\006\003\125\004\007\014\005\115\151\154\141\156\061
\043\060\041\006\003\125\004\012\014\032\101\143\164\141\154\151
\163\040\123\056\160\056\101\056\057\060\063\063\065\070\065\062
\060\071\066\067\061\047\060\045\006\003\125\004\003\014\036\101
\143\164\141\154\151\163\040\101\165\164\150\145\156\164\151\143
\141\164\151\157\156\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\127\012\021\227\102\304\343\314
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\273\060\202\003\243\240\003\002\001\002\002\010\127
\012\021\227\102\304\343\314\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\153\061\013\060\011\006\003\125\004

\006\023\002\111\124\061\016\060\014\006\003\125\004\007\014\005
\115\151\154\141\156\061\043\060\041\006\003\125\004\012\014\032
\101\143\164\141\154\151\163\040\123\056\160\056\101\056\057\060
\063\063\065\070\065\062\060\071\066\067\061\047\060\045\006\003
\125\004\003\014\036\101\143\164\141\154\151\163\040\101\165\164
\150\145\156\164\151\143\141\164\151\157\156\040\122\157\157\164
\040\103\101\060\036\027\015\061\061\060\071\062\062\061\061\062
\062\060\062\132\027\015\063\060\060\071\062\062\061\061\062\062
\060\062\132\060\153\061\013\060\011\006\003\125\004\006\023\002
\111\124\061\016\060\014\006\003\125\004\007\014\005\115\151\154
\141\156\061\043\060\041\006\003\125\004\012\014\032\101\143\164
\141\154\151\163\040\123\056\160\056\101\056\057\060\063\063\065
\070\065\062\060\071\066\067\061\047\060\045\006\003\125\004\003
\014\036\101\143\164\141\154\151\163\040\101\165\164\150\145\156
\164\151\143\141\164\151\157\156\040\122\157\157\164\040\103\101
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001
\000\247\306\304\245\051\244\054\357\345\030\305\260\120\243\157
\121\073\237\012\132\311\302\110\070\012\302\034\240\030\177\221
\265\207\271\100\077\335\035\150\037\010\203\325\055\036\210\240
\370\217\126\217\155\231\002\222\220\026\325\137\010\154\211\327
\341\254\274\040\302\261\340\203\121\212\151\115\000\226\132\157
\057\300\104\176\243\016\344\221\315\130\356\334\373\307\036\105
\107\335\047\271\010\001\237\246\041\035\365\101\055\057\114\375
\050\255\340\212\255\042\264\126\145\216\206\124\217\223\103\051
\336\071\106\170\243\060\043\272\315\360\175\023\127\300\135\322
\203\153\110\114\304\253\237\200\132\133\072\275\311\247\042\077
\200\047\063\133\016\267\212\014\135\007\067\010\313\154\322\172
\107\042\104\065\305\314\314\056\216\335\052\355\267\175\146\015
\137\141\121\042\125\033\343\106\343\343\075\320\065\142\232\333
\257\024\310\133\241\314\211\033\341\060\046\374\240\233\037\201
\247\107\037\004\353\243\071\222\006\237\231\323\277\323\352\117
\120\234\031\376\226\207\036\074\145\366\243\030\044\203\206\020
\347\124\076\250\072\166\044\117\201\041\305\343\017\002\370\223
\224\107\040\273\376\324\016\323\150\271\335\304\172\204\202\343
\123\124\171\335\333\234\322\362\007\233\056\266\274\076\355\205
\155\357\045\021\362\227\032\102\141\367\112\227\350\213\261\020
\007\372\145\201\262\242\071\317\367\074\377\030\373\306\361\132
\213\131\342\002\254\173\222\320\116\024\117\131\105\366\014\136
\050\137\260\350\077\105\317\317\257\233\157\373\204\323\167\132
\225\157\254\224\204\236\356\274\300\112\217\112\223\370\104\041
\342\061\105\141\120\116\020\330\343\065\174\114\031\264\336\005
\277\243\006\237\310\265\315\344\037\327\027\006\015\172\225\164
\125\015\150\032\374\020\033\142\144\235\155\340\225\240\303\224
\007\127\015\024\346\275\005\373\270\237\346\337\213\342\306\347
\176\226\366\123\305\200\064\120\050\130\360\022\120\161\027\060
\272\346\170\143\274\364\262\255\233\053\262\376\341\071\214\136
\272\013\040\224\336\173\203\270\377\343\126\215\267\021\351\073

\214\362\261\301\135\235\244\013\114\053\331\262\030\365\265\237
\113\002\003\001\000\001\243\143\060\141\060\035\006\003\125\035
\016\004\026\004\024\122\330\210\072\310\237\170\146\355\211\363
\173\070\160\224\311\002\002\066\320\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\037\006\003\125\035
\043\004\030\060\026\200\024\122\330\210\072\310\237\170\146\355
\211\363\173\070\160\224\311\002\002\066\320\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\006\060\015\006\011\052
\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\013
\173\162\207\300\140\246\111\114\210\130\346\035\210\367\024\144
\110\246\330\130\012\016\117\023\065\337\065\035\324\355\006\061
\310\201\076\152\325\335\073\032\062\356\220\075\021\322\056\364
\216\303\143\056\043\146\260\147\276\157\266\300\023\071\140\252
\242\064\045\223\165\122\336\247\235\255\016\207\211\122\161\152
\026\074\031\035\203\370\232\051\145\276\364\077\232\331\360\363
\132\207\041\161\200\115\313\340\070\233\077\273\372\340\060\115
\317\206\323\145\020\031\030\321\227\002\261\053\162\102\150\254
\240\275\116\132\332\030\277\153\230\201\320\375\232\276\136\025
\110\315\021\025\271\300\051\134\264\350\210\367\076\066\256\267
\142\375\036\142\336\160\170\020\034\110\133\332\274\244\070\272
\147\355\125\076\136\127\337\324\003\100\114\201\244\322\117\143
\247\011\102\011\024\374\000\251\302\200\163\117\056\300\100\331
\021\173\110\352\172\002\300\323\353\050\001\046\130\164\301\300
\163\042\155\223\225\375\071\175\273\052\343\366\202\343\054\227
\137\116\037\221\224\372\376\054\243\330\166\032\270\115\262\070
\117\233\372\035\110\140\171\046\342\363\375\251\320\232\350\160
\217\111\172\326\345\275\012\016\333\055\363\215\277\353\343\244
\175\313\307\225\161\350\332\243\174\305\302\370\164\222\004\033
\206\254\244\042\123\100\266\254\376\114\166\317\373\224\062\300
\065\237\166\077\156\345\220\156\240\246\046\242\270\054\276\321
\053\205\375\247\150\310\272\001\053\261\154\164\035\270\163\225
\347\356\267\307\045\360\000\114\000\262\176\266\013\213\034\363
\300\120\236\045\271\340\010\336\066\146\377\067\245\321\273\124
\144\054\311\047\265\113\222\176\145\377\323\055\341\271\116\274
\177\244\101\041\220\101\167\246\071\037\352\236\343\237\320\146
\157\005\354\252\166\176\277\153\026\240\353\265\307\374\222\124
\057\053\021\047\045\067\170\114\121\152\260\363\314\130\135\024
\361\152\110\025\377\302\007\266\261\215\017\216\134\120\106\263
\075\277\001\230\117\262\131\124\107\076\064\173\170\155\126\223
\056\163\352\146\050\170\315\035\024\277\240\217\057\056\270\056
\216\362\024\212\314\351\265\174\373\154\235\014\245\341\226
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Actalis Authentication Root CA"
Issuer: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT

```
# Serial Number:57:0a:11:97:42:c4:e3:cc
# Subject: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Not Valid Before: Thu Sep 22 11:22:02 2011
# Not Valid After : Sun Sep 22 11:22:02 2030
# Fingerprint (SHA-256):
55:92:60:84:EC:96:3A:64:B9:6E:2A:BE:01:CE:0B:A8:6A:64:FB:FE:BC:C7:AA:B5:AF:C1:55:B3:7F:D7:60:66
# Fingerprint (SHA1): F3:73:B3:87:06:5A:28:84:8A:F2:F3:4A:CE:19:2B:DD:C7:8E:9C:AC
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Actalis Authentication Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\363\163\263\207\006\132\050\204\212\362\363\112\316\031\053\335
\307\216\234\254
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\151\301\015\117\007\243\033\303\376\126\075\004\274\021\366\246
END
CKA_ISSUER MULTILINE_OCTAL
\060\153\061\013\060\011\006\003\125\004\006\023\002\111\124\061
\016\060\014\006\003\125\004\007\014\005\115\151\154\141\156\061
\043\060\041\006\003\125\004\012\014\032\101\143\164\141\154\151
\163\040\123\056\160\056\101\056\057\060\063\063\065\070\065\062
\060\071\066\067\061\047\060\045\006\003\125\004\003\014\036\101
\143\164\141\154\151\163\040\101\165\164\150\145\156\164\151\143
\141\164\151\157\156\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\127\012\021\227\102\304\343\314
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Buypass Class 2 Root CA"
#
# Issuer: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:38:03 2010
# Not Valid After : Fri Oct 26 08:38:03 2040
# Fingerprint (SHA-256):
9A:11:40:25:19:7C:5B:B9:5D:94:E6:3D:55:CD:43:79:08:47:B6:46:B2:3C:DF:11:AD:A4:A0:0E:FF:15:FB:48
# Fingerprint (SHA1): 49:0A:75:74:DE:87:0A:47:FE:58:EE:F6:C7:6B:EB:C6:0B:12:40:99
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
```

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 2 Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061
\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163
\163\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163
\040\103\154\141\163\163\040\062\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061
\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163
\163\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163
\040\103\154\141\163\163\040\062\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\002
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\131\060\202\003\101\240\003\002\001\002\002\001\002
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061\035
\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163\163
\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040\060
\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163\040
\103\154\141\163\163\040\062\040\122\157\157\164\040\103\101\060
\036\027\015\061\060\061\060\062\066\060\070\063\070\060\063\132
\027\015\064\060\061\060\062\066\060\070\063\070\060\063\132\060
\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061\035
\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163\163
\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040\060
\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163\040
\103\154\141\163\163\040\062\040\122\157\157\164\040\103\101\060
\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001
\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000
\327\307\136\367\301\007\324\167\373\103\041\364\364\365\151\344
\356\062\001\333\243\206\037\344\131\015\272\347\165\203\122\353
\352\034\141\025\110\273\035\007\312\214\256\260\334\226\235\352
\303\140\222\206\202\050\163\234\126\006\377\113\144\360\014\052
\067\111\265\345\317\014\174\356\361\112\273\163\060\145\363\325
\057\203\266\176\343\347\365\236\253\140\371\323\361\235\222\164
\212\344\034\226\254\133\200\351\265\364\061\207\243\121\374\307
\176\241\157\216\123\167\324\227\301\125\063\222\076\030\057\165

\324\255\206\111\313\225\257\124\006\154\330\006\023\215\133\377
\341\046\031\131\300\044\272\201\161\171\220\104\120\150\044\224
\137\270\263\021\361\051\101\141\243\101\313\043\066\325\301\361
\062\120\020\116\177\364\206\223\354\204\323\216\274\113\277\134
\001\116\007\075\334\024\212\224\012\244\352\163\373\013\121\350
\023\007\030\372\016\361\053\321\124\025\175\074\341\367\264\031
\102\147\142\136\167\340\242\125\354\266\331\151\027\325\072\257
\104\355\112\305\236\344\172\047\174\345\165\327\252\313\045\347
\337\153\012\333\017\115\223\116\250\240\315\173\056\362\131\001
\152\267\015\270\007\201\176\213\070\033\070\346\012\127\231\075
\356\041\350\243\365\014\026\335\213\354\064\216\234\052\034\000
\025\027\215\150\203\322\160\237\030\010\315\021\150\325\311\153
\122\315\304\106\217\334\265\363\330\127\163\036\351\224\071\004
\277\323\336\070\336\264\123\354\151\034\242\176\304\217\344\033
\160\255\362\242\371\373\367\026\144\146\151\237\111\121\242\342
\025\030\147\006\112\177\325\154\265\115\263\063\340\141\353\135
\276\351\230\017\062\327\035\113\074\056\132\001\122\221\011\362
\337\352\215\330\006\100\143\252\021\344\376\303\067\236\024\122
\077\364\342\314\362\141\223\321\375\147\153\327\122\256\277\150
\253\100\103\240\127\065\123\170\360\123\370\141\102\007\144\306
\327\157\233\114\070\015\143\254\142\257\066\213\242\163\012\015
\365\041\275\164\252\115\352\162\003\111\333\307\137\035\142\143
\307\375\335\221\354\063\356\365\155\264\156\060\150\336\310\326
\046\260\165\136\173\264\007\040\230\241\166\062\270\115\154\117
\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035
\016\004\026\004\024\311\200\167\340\142\222\202\365\106\234\363
\272\367\114\303\336\270\243\255\071\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\001\006\060\015\006\011\052\206\110
\206\367\015\001\001\013\005\000\003\202\002\001\000\123\137\041
\365\272\260\072\122\071\054\222\260\154\000\311\357\316\040\357
\006\362\226\236\351\244\164\177\172\026\374\267\365\266\373\025
\033\077\253\246\300\162\135\020\261\161\356\274\117\343\255\254
\003\155\056\161\056\257\304\343\255\243\275\014\021\247\264\377
\112\262\173\020\020\037\247\127\101\262\300\256\364\054\131\326
\107\020\210\363\041\121\051\060\312\140\206\257\106\253\035\355
\072\133\260\224\336\104\343\101\010\242\301\354\035\326\375\117
\266\326\107\320\024\013\312\346\312\265\173\167\176\101\037\136
\203\307\266\214\071\226\260\077\226\201\101\157\140\220\342\350
\371\373\042\161\331\175\263\075\106\277\264\204\257\220\034\017
\217\022\152\257\357\356\036\172\256\002\112\212\027\053\166\376
\254\124\211\044\054\117\077\266\262\247\116\214\250\221\227\373
\051\306\173\134\055\271\313\146\266\267\250\133\022\121\205\265
\011\176\142\170\160\376\251\152\140\266\035\016\171\014\375\312
\352\044\200\162\303\227\077\362\167\253\103\042\012\307\353\266
\014\204\202\054\200\153\101\212\010\300\353\245\153\337\231\022
\313\212\325\136\200\014\221\340\046\010\066\110\305\372\070\021
\065\377\045\203\055\362\172\277\332\375\216\376\245\313\105\054

\037\304\210\123\256\167\016\331\232\166\305\216\054\035\243\272
\325\354\062\256\300\252\254\367\321\172\115\353\324\007\342\110
\367\042\216\260\244\237\152\316\216\262\262\140\364\243\042\320
\043\353\224\132\172\151\335\017\277\100\127\254\153\131\120\331
\243\231\341\156\376\215\001\171\047\043\025\336\222\235\173\011
\115\132\347\113\110\060\132\030\346\012\155\346\217\340\322\273
\346\337\174\156\041\202\301\150\071\115\264\230\130\146\142\314
\112\220\136\303\372\047\004\261\171\025\164\231\314\276\255\040
\336\046\140\034\353\126\121\246\243\352\344\243\077\247\377\141
\334\361\132\115\154\062\043\103\356\254\250\356\356\112\022\011
\074\135\161\302\276\171\372\302\207\150\035\013\375\134\151\314
\006\320\232\175\124\231\052\311\071\032\031\257\113\052\103\363
\143\135\132\130\342\057\343\035\344\251\326\320\012\320\236\277
\327\201\011\361\311\307\046\015\254\230\026\126\240
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Buypass Class 2 Root CA"
Issuer: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
Serial Number: 2 (0x2)
Subject: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
Not Valid Before: Tue Oct 26 08:38:03 2010
Not Valid After : Fri Oct 26 08:38:03 2040
Fingerprint (SHA-256):
9A:11:40:25:19:7C:5B:B9:5D:94:E6:3D:55:CD:43:79:08:47:B6:46:B2:3C:DF:11:AD:A4:A0:0E:FF:15:FB:48
Fingerprint (SHA1): 49:0A:75:74:DE:87:0A:47:FE:58:EE:F6:C7:6B:EB:C6:0B:12:40:99
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 2 Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\111\012\165\164\336\207\012\107\376\130\356\366\307\153\353\306
\013\022\100\231
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\106\247\322\376\105\373\144\132\250\131\220\233\170\104\233\051
END
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061
\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163
\163\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163
\040\103\154\141\163\163\040\062\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\001\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Buypass Class 3 Root CA"
#
Issuer: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
Serial Number: 2 (0x2)
Subject: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
Not Valid Before: Tue Oct 26 08:28:58 2010
Not Valid After : Fri Oct 26 08:28:58 2040
Fingerprint (SHA-256):
ED:F7:EB:BC:A2:7A:2A:38:4D:38:7B:7D:40:10:C6:66:E2:ED:B4:84:3E:4C:29:B4:AE:1D:5B:93:32:E6:B2:4D
Fingerprint (SHA1): DA:FA:F7:FA:66:84:EC:06:8F:14:50:BD:C7:C2:81:A5:BC:A9:64:57
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 3 Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061
\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163
\163\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163
\040\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061
\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163
\163\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163
\040\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\002
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\131\060\202\003\101\240\003\002\001\002\002\001\002
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061\035
\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163\163
\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040\060

\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163\040
\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101\060
\036\027\015\061\060\061\060\062\066\060\070\062\070\065\070\132
\027\015\064\060\061\060\062\066\060\070\062\070\065\070\132\060
\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061\035
\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163\163
\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040\060
\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163\040
\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101\060
\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001
\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000
\245\332\012\225\026\120\343\225\362\136\235\166\061\006\062\172
\233\361\020\166\270\000\232\265\122\066\315\044\107\260\237\030
\144\274\232\366\372\325\171\330\220\142\114\042\057\336\070\075
\326\340\250\351\034\054\333\170\021\351\216\150\121\025\162\307
\363\063\207\344\240\135\013\134\340\127\007\052\060\365\315\304
\067\167\050\115\030\221\346\277\325\122\375\161\055\160\076\347
\306\304\212\343\360\050\013\364\166\230\241\213\207\125\262\072
\023\374\267\076\047\067\216\042\343\250\117\052\357\140\273\075
\267\071\303\016\001\107\231\135\022\117\333\103\372\127\241\355
\371\235\276\021\107\046\133\023\230\253\135\026\212\260\067\034
\127\235\105\377\210\226\066\277\273\312\007\173\157\207\143\327
\320\062\152\326\135\154\014\361\263\156\071\342\153\061\056\071
\000\047\024\336\070\300\354\031\146\206\022\350\235\162\026\023
\144\122\307\251\067\034\375\202\060\355\204\030\035\364\256\134
\377\160\023\000\353\261\365\063\172\113\326\125\370\005\215\113
\151\260\365\263\050\066\134\024\304\121\163\115\153\013\361\064
\007\333\027\071\327\334\050\173\153\365\237\363\056\301\117\027
\052\020\363\314\312\350\353\375\153\253\056\232\237\055\202\156
\004\324\122\001\223\055\075\206\374\176\374\337\357\102\035\246
\153\357\271\040\306\367\275\240\247\225\375\247\346\211\044\330
\314\214\064\154\342\043\057\331\022\032\041\271\125\221\157\013
\221\171\031\014\255\100\210\013\160\342\172\322\016\330\150\110
\273\202\023\071\020\130\351\330\052\007\306\022\333\130\333\322
\073\125\020\107\005\025\147\142\176\030\143\246\106\077\011\016
\124\062\136\277\015\142\172\047\357\200\350\333\331\113\006\132
\067\132\045\320\010\022\167\324\157\011\120\227\075\310\035\303
\337\214\105\060\126\306\323\144\253\146\363\300\136\226\234\303
\304\357\303\174\153\213\072\171\177\263\111\317\075\342\211\237
\240\060\113\205\271\234\224\044\171\217\175\153\251\105\150\017
\053\320\361\332\034\313\151\270\312\111\142\155\310\320\143\142
\335\140\017\130\252\217\241\274\005\245\146\242\317\033\166\262
\204\144\261\114\071\122\300\060\272\360\214\113\002\260\266\267
\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035
\016\004\026\004\024\107\270\315\377\345\157\356\370\262\354\057
\116\016\371\045\260\216\074\153\303\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\001\006\060\015\006\011\052\206\110

\206\367\015\001\001\013\005\000\003\202\002\001\000\000\040\043
\101\065\004\220\302\100\142\140\357\342\065\114\327\077\254\342
\064\220\270\241\157\166\372\026\026\244\110\067\054\351\220\302
\362\074\370\012\237\330\201\345\273\133\332\045\054\244\247\125
\161\044\062\366\310\013\362\274\152\370\223\254\262\007\302\137
\237\333\314\310\212\252\276\152\157\341\111\020\314\061\327\200
\273\273\310\330\242\016\144\127\352\242\365\302\251\061\025\322
\040\152\354\374\042\001\050\317\206\270\200\036\251\314\021\245
\074\362\026\263\107\235\374\322\200\041\304\313\320\107\160\101
\241\312\203\031\010\054\155\362\135\167\234\212\024\023\324\066
\034\222\360\345\006\067\334\246\346\220\233\070\217\134\153\033
\106\206\103\102\137\076\001\007\123\124\135\145\175\367\212\163
\241\232\124\132\037\051\103\024\047\302\205\017\265\210\173\032
\073\224\267\035\140\247\265\234\347\051\151\127\132\233\223\172
\103\060\033\003\327\142\310\100\246\252\374\144\344\112\327\221
\123\001\250\040\210\156\234\137\104\271\313\140\201\064\354\157
\323\175\332\110\137\353\264\220\274\055\251\034\013\254\034\325
\242\150\040\200\004\326\374\261\217\057\273\112\061\015\112\206
\034\353\342\066\051\046\365\332\330\304\362\165\141\317\176\256
\166\143\112\172\100\145\223\207\370\036\200\214\206\345\206\326
\217\016\374\123\054\140\350\026\141\032\242\076\103\173\315\071
\140\124\152\365\362\211\046\001\150\203\110\242\063\350\311\004
\221\262\021\064\021\076\352\320\103\031\037\003\223\220\014\377
\121\075\127\364\101\156\341\313\240\276\353\311\143\315\155\314
\344\370\066\252\150\235\355\275\135\227\160\104\015\266\016\065
\334\341\014\135\273\240\121\224\313\176\026\353\021\057\243\222
\105\310\114\161\331\274\311\231\122\127\106\057\120\317\275\065
\151\364\075\025\316\006\245\054\017\076\366\201\272\224\273\303
\273\277\145\170\322\206\171\377\111\073\032\203\014\360\336\170
\354\310\362\115\114\032\336\202\051\370\301\132\332\355\356\346
\047\136\350\105\320\235\034\121\250\150\253\104\343\320\213\152
\343\370\073\273\334\115\327\144\362\121\276\346\252\253\132\351
\061\356\006\274\163\277\023\142\012\237\307\271\227
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Buypass Class 3 Root CA"
Issuer: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
Serial Number: 2 (0x2)
Subject: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
Not Valid Before: Tue Oct 26 08:28:58 2010
Not Valid After : Fri Oct 26 08:28:58 2040
Fingerprint (SHA-256):
ED:F7:EB:BC:A2:7A:2A:38:4D:38:7B:7D:40:10:C6:66:E2:ED:B4:84:3E:4C:29:B4:AE:1D:5B:93:32:E6:B2:4D
Fingerprint (SHA1): DA:FA:F7:FA:66:84:EC:06:8F:14:50:BD:C7:C2:81:A5:BC:A9:64:57
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 3 Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\332\372\367\372\146\204\354\006\217\024\120\275\307\302\201\245
\274\251\144\127
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\075\073\030\236\054\144\132\350\325\210\316\016\371\067\302\354
END
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061
\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163
\163\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163
\040\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "T-TeleSec GlobalRoot Class 3"
#
Issuer: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
Serial Number: 1 (0x1)
Subject: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
Not Valid Before: Wed Oct 01 10:29:56 2008
Not Valid After : Sat Oct 01 23:59:59 2033
Fingerprint (SHA-256):
FD:73:DA:D3:1C:64:4F:F1:B4:3B:EF:0C:CD:DA:96:71:0B:9C:D9:87:5E:CA:7E:31:70:7A:F3:E9:6D:52:2B:BD
Fingerprint (SHA1): 55:A6:72:3E:CB:F2:EC:CD:C3:23:74:70:19:9D:2A:BE:11:E3:81:D1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163

\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\303\060\202\002\253\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163\164
\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040\123
\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060\035
\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155\163
\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045\060
\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123\145
\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154\141
\163\163\040\063\060\036\027\015\060\070\061\060\060\061\061\060
\062\071\065\066\132\027\015\063\063\061\060\060\061\062\063\065
\071\065\071\132\060\201\202\061\013\060\011\006\003\125\004\006
\023\002\104\105\061\053\060\051\006\003\125\004\012\014\042\124
\055\123\171\163\164\145\155\163\040\105\156\164\145\162\160\162
\151\163\145\040\123\145\162\166\151\143\145\163\040\107\155\142
\110\061\037\060\035\006\003\125\004\013\014\026\124\055\123\171
\163\164\145\155\163\040\124\162\165\163\164\040\103\145\156\164
\145\162\061\045\060\043\006\003\125\004\003\014\034\124\055\124
\145\154\145\123\145\143\040\107\154\157\142\141\154\122\157\157
\164\040\103\154\141\163\163\040\063\060\202\001\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017
\000\060\202\001\012\002\202\001\001\000\275\165\223\360\142\042
\157\044\256\340\172\166\254\175\275\331\044\325\270\267\374\315

\360\102\340\353\170\210\126\136\233\232\124\035\115\014\212\366
\323\317\160\364\122\265\330\223\004\343\106\206\161\101\112\053
\360\052\054\125\003\326\110\303\340\071\070\355\362\134\074\077
\104\274\223\075\141\253\116\315\015\276\360\040\047\130\016\104
\177\004\032\207\245\327\226\024\066\220\320\111\173\241\165\373
\032\153\163\261\370\316\251\011\054\362\123\325\303\024\104\270
\206\245\366\213\053\071\332\243\063\124\331\372\162\032\367\042
\025\034\210\221\153\177\146\345\303\152\200\260\044\363\337\206
\105\210\375\031\177\165\207\037\037\261\033\012\163\044\133\271
\145\340\054\124\310\140\323\146\027\077\341\314\124\063\163\221
\002\072\246\177\173\166\071\242\037\226\266\070\256\265\310\223
\164\035\236\271\264\345\140\235\057\126\321\340\353\136\133\114
\022\160\014\154\104\040\253\021\330\364\031\366\322\234\122\067
\347\372\266\302\061\073\112\324\024\231\255\307\032\365\135\137
\372\007\270\174\015\037\326\203\036\263\002\003\001\000\001\243
\102\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\006\060\035\006\003\125\035\016\004\026\004\024\265
\003\367\166\073\141\202\152\022\252\030\123\353\003\041\224\277
\376\316\312\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\003\202\001\001\000\126\075\357\224\325\275\332\163\262
\130\276\256\220\255\230\047\227\376\001\261\260\122\000\270\115
\344\033\041\164\033\176\300\356\136\151\052\045\257\134\326\035
\332\322\171\311\363\227\051\340\206\207\336\004\131\017\361\131
\324\144\205\113\231\257\045\004\036\311\106\251\227\336\202\262
\033\160\237\234\366\257\161\061\335\173\005\245\054\323\271\312
\107\366\312\362\366\347\255\271\110\077\274\026\267\301\155\364
\352\011\257\354\363\265\347\005\236\246\036\212\123\121\326\223
\201\314\164\223\366\271\332\246\045\005\164\171\132\176\100\076
\202\113\046\021\060\156\341\077\101\307\107\000\065\325\365\323
\367\124\076\201\075\332\111\152\232\263\357\020\075\346\353\157
\321\310\042\107\313\314\317\001\061\222\331\030\343\042\276\011
\036\032\076\132\262\344\153\014\124\172\175\103\116\270\211\245
\173\327\242\075\226\206\314\362\046\064\055\152\222\235\232\032
\320\060\342\135\116\004\260\137\213\040\176\167\301\075\225\202
\321\106\232\073\074\170\270\157\241\320\015\144\242\170\036\051
\116\223\303\244\124\024\133
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "T-TeleSec GlobalRoot Class 3"
Issuer: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
Serial Number: 1 (0x1)
Subject: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE

```
# Not Valid Before: Wed Oct 01 10:29:56 2008
# Not Valid After : Sat Oct 01 23:59:59 2033
# Fingerprint (SHA-256):
FD:73:DA:D3:1C:64:4F:F1:B4:3B:EF:0C:CD:DA:96:71:0B:9C:D9:87:5E:CA:7E:31:70:7A:F3:E9:6D:52:2B:BD
# Fingerprint (SHA1): 55:A6:72:3E:CB:F2:EC:CD:C3:23:74:70:19:9D:2A:BE:11:E3:81:D1
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\125\246\162\076\313\362\354\315\303\043\164\160\031\235\052\276
\021\343\201\321
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\312\373\100\250\116\071\222\212\035\376\216\057\304\047\352\357
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "D-TRUST Root Class 3 CA 2 2009"
#
# Issuer: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
# Serial Number: 623603 (0x983f3)
# Subject: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
# Not Valid Before: Thu Nov 05 08:35:58 2009
# Not Valid After : Mon Nov 05 08:35:58 2029
# Fingerprint (SHA-256):
49:E7:A4:42:AC:F0:EA:62:87:05:00:54:B5:25:64:B6:50:E4:F4:9E:42:E3:48:D6:AA:38:E0:39:E9:57:B1:C1
# Fingerprint (SHA1): 58:E8:AB:B0:36:15:33:FB:80:F7:9B:1B:6D:29:D3:FF:8D:5F:00:F0
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
```

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 2009"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\047\060\045\006\003\125\004\003\014
\036\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\047\060\045\006\003\125\004\003\014
\036\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\011\203\363
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\063\060\202\003\033\240\003\002\001\002\002\003\011
\203\363\060\015\006\011\052\206\110\206\367\015\001\001\013\005
\000\060\115\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165
\163\164\040\107\155\142\110\061\047\060\045\006\003\125\004\003
\014\036\104\055\124\122\125\123\124\040\122\157\157\164\040\103
\154\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071
\060\036\027\015\060\071\061\061\060\065\060\070\063\065\065\070
\132\027\015\062\071\061\061\060\065\060\070\063\065\065\070\132
\060\115\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\047\060\045\006\003\125\004\003\014
\036\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071\060
\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001\001
\005\000\003\202\001\017\000\060\202\001\012\002\202\001\001\000
\323\262\112\317\172\107\357\165\233\043\372\072\057\326\120\105
\211\065\072\306\153\333\376\333\000\150\250\340\003\021\035\067
\120\010\237\115\112\150\224\065\263\123\321\224\143\247\040\126
\257\336\121\170\354\052\075\363\110\110\120\076\012\337\106\125
\213\047\155\303\020\115\015\221\122\103\330\207\340\135\116\066
\265\041\312\137\071\100\004\137\133\176\314\243\306\053\251\100
\036\331\066\204\326\110\363\222\036\064\106\040\044\301\244\121
\216\112\032\357\120\077\151\135\031\177\105\303\307\001\217\121

\311\043\350\162\256\264\274\126\011\177\022\313\034\261\257\051
\220\012\311\125\314\017\323\264\032\355\107\065\132\112\355\234
\163\004\041\320\252\275\014\023\265\000\312\046\154\304\153\014
\224\132\225\224\332\120\232\361\377\245\053\146\061\244\311\070
\240\337\035\037\270\011\056\363\247\350\147\122\253\225\037\340
\106\076\330\244\303\312\132\305\061\200\350\110\232\237\224\151
\376\031\335\330\163\174\201\312\226\336\216\355\263\062\005\145
\204\064\346\346\375\127\020\265\137\166\277\057\260\020\015\305
\002\003\001\000\001\243\202\001\032\060\202\001\026\060\017\006
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\035
\006\003\125\035\016\004\026\004\024\375\332\024\304\237\060\336
\041\275\036\102\071\374\253\143\043\111\340\361\204\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\201\323
\006\003\125\035\037\004\201\313\060\201\310\060\201\200\240\176
\240\174\206\172\154\144\141\160\072\057\057\144\151\162\145\143
\164\157\162\171\056\144\055\164\162\165\163\164\056\156\145\164
\057\103\116\075\104\055\124\122\125\123\124\045\062\060\122\157
\157\164\045\062\060\103\154\141\163\163\045\062\060\063\045\062
\060\103\101\045\062\060\062\045\062\060\062\060\060\071\054\117
\075\104\055\124\162\165\163\164\045\062\060\107\155\142\110\054
\103\075\104\105\077\143\145\162\164\151\146\151\143\141\164\145
\162\145\166\157\143\141\164\151\157\156\154\151\163\164\060\103
\240\101\240\077\206\075\150\164\164\160\072\057\057\167\167\167
\056\144\055\164\162\165\163\164\056\156\145\164\057\143\162\154
\057\144\055\164\162\165\163\164\137\162\157\157\164\137\143\154
\141\163\163\137\063\137\143\141\137\062\137\062\060\060\071\056
\143\162\154\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\003\202\001\001\000\177\227\333\060\310\337\244\234\175
\041\172\200\160\316\024\022\151\210\024\225\140\104\001\254\262
\351\060\117\233\120\302\146\330\176\215\060\265\160\061\351\342
\151\307\363\160\333\040\025\206\320\015\360\276\254\001\165\204
\316\176\237\115\277\267\140\073\234\363\312\035\342\136\150\330
\243\235\227\345\100\140\322\066\041\376\320\264\270\027\332\164
\243\177\324\337\260\230\002\254\157\153\153\054\045\044\162\241
\145\356\045\132\345\346\062\347\362\337\253\111\372\363\220\151
\043\333\004\331\347\134\130\374\145\324\227\276\314\374\056\012
\314\045\052\065\004\370\140\221\025\165\075\101\377\043\037\031
\310\154\353\202\123\004\246\344\114\042\115\215\214\272\316\133
\163\354\144\124\120\155\321\234\125\373\151\303\066\303\214\274
\074\205\246\153\012\046\015\340\223\230\140\256\176\306\044\227
\212\141\137\221\216\146\222\011\207\066\315\213\233\055\076\366
\121\324\120\324\131\050\275\203\362\314\050\173\123\206\155\330
\046\210\160\327\352\221\315\076\271\312\300\220\156\132\306\136
\164\145\327\134\376\243\342
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Trust for "D-TRUST Root Class 3 CA 2 2009"
# Issuer: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
# Serial Number: 623603 (0x983f3)
# Subject: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
# Not Valid Before: Thu Nov 05 08:35:58 2009
# Not Valid After : Mon Nov 05 08:35:58 2029
# Fingerprint (SHA-256):
49:E7:A4:42:AC:F0:EA:62:87:05:00:54:B5:25:64:B6:50:E4:F4:9E:42:E3:48:D6:AA:38:E0:39:E9:57:B1:C1
# Fingerprint (SHA1): 58:E8:AB:B0:36:15:33:FB:80:F7:9B:1B:6D:29:D3:FF:8D:5F:00:F0
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 2009"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\130\350\253\260\066\025\063\373\200\367\233\033\155\051\323\377
\215\137\000\360
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\315\340\045\151\215\107\254\234\211\065\220\367\375\121\075\057
END
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\047\060\045\006\003\125\004\003\014
\036\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\011\203\363
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "D-TRUST Root Class 3 CA 2 EV 2009"
#
# Issuer: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
# Serial Number: 623604 (0x983f4)
# Subject: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
# Not Valid Before: Thu Nov 05 08:50:46 2009
# Not Valid After : Mon Nov 05 08:50:46 2029
# Fingerprint (SHA-256):
EE:C5:49:6B:98:8C:E9:86:25:B9:34:09:2E:EC:29:08:BE:D0:B0:F3:16:C2:D4:73:0C:84:EA:F1:F3:D3:48:81
# Fingerprint (SHA1): 96:C9:1B:0B:95:B4:10:98:42:FA:D0:D8:22:79:FE:60:FA:B9:16:83
```

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 EV 2009"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\052\060\050\006\003\125\004\003\014
\041\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\105\126\040\062\060
\060\071
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\052\060\050\006\003\125\004\003\014
\041\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\105\126\040\062\060
\060\071
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\011\203\364
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\103\060\202\003\053\240\003\002\001\002\002\003\011
\203\364\060\015\006\011\052\206\110\206\367\015\001\001\013\005
\000\060\120\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165
\163\164\040\107\155\142\110\061\052\060\050\006\003\125\004\003
\014\041\104\055\124\122\125\123\124\040\122\157\157\164\040\103
\154\141\163\163\040\063\040\103\101\040\062\040\105\126\040\062
\060\060\071\060\036\027\015\060\071\061\061\060\065\060\070\065
\060\064\066\132\027\015\062\071\061\061\060\065\060\070\065\060
\064\066\132\060\120\061\013\060\011\006\003\125\004\006\023\002
\104\105\061\025\060\023\006\003\125\004\012\014\014\104\055\124
\162\165\163\164\040\107\155\142\110\061\052\060\050\006\003\125
\004\003\014\041\104\055\124\122\125\123\124\040\122\157\157\164
\040\103\154\141\163\163\040\063\040\103\101\040\062\040\105\126
\040\062\060\060\071\060\202\001\042\060\015\006\011\052\206\110
\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001
\012\002\202\001\001\000\231\361\204\064\160\272\057\267\060\240
\216\275\174\004\317\276\142\274\231\375\202\227\322\172\012\147
\226\070\011\366\020\116\225\042\163\231\215\332\025\055\347\005
\374\031\163\042\267\216\230\000\274\074\075\254\241\154\373\326
\171\045\113\255\360\314\144\332\210\076\051\270\017\011\323\064

\335\063\365\142\321\341\315\031\351\356\030\117\114\130\256\342
\036\326\014\133\025\132\330\072\270\304\030\144\036\343\063\262
\265\211\167\116\014\277\331\224\153\023\227\157\022\243\376\231
\251\004\314\025\354\140\150\066\355\010\173\267\365\277\223\355
\146\061\203\214\306\161\064\207\116\027\352\257\213\221\215\034
\126\101\256\042\067\136\067\362\035\331\321\055\015\057\151\121
\247\276\146\246\212\072\052\275\307\032\261\341\024\360\276\072
\035\271\317\133\261\152\376\264\261\106\040\242\373\036\073\160
\357\223\230\175\214\163\226\362\305\357\205\160\255\051\046\374
\036\004\076\034\240\330\017\313\122\203\142\174\356\213\123\225
\220\251\127\242\352\141\005\330\371\115\304\047\372\156\255\355
\371\327\121\367\153\245\002\003\001\000\001\243\202\001\044\060
\202\001\040\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024\323
\224\212\114\142\023\052\031\056\314\257\162\212\175\066\327\232
\034\334\147\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\006\060\201\335\006\003\125\035\037\004\201\325\060\201
\322\060\201\207\240\201\204\240\201\201\206\177\154\144\141\160
\072\057\057\144\151\162\145\143\164\157\162\171\056\144\055\164
\162\165\163\164\056\156\145\164\057\103\116\075\104\055\124\122
\125\123\124\045\062\060\122\157\157\164\045\062\060\103\154\141
\163\163\045\062\060\063\045\062\060\103\101\045\062\060\062\045
\062\060\105\126\045\062\060\062\060\060\071\054\117\075\104\055
\124\162\165\163\164\045\062\060\107\155\142\110\054\103\075\104
\105\077\143\145\162\164\151\146\151\143\141\164\145\162\145\166
\157\143\141\164\151\157\156\154\151\163\164\060\106\240\104\240
\102\206\100\150\164\164\160\072\057\057\167\167\167\056\144\055
\164\162\165\163\164\056\156\145\164\057\143\162\154\057\144\055
\164\162\165\163\164\137\162\157\157\164\137\143\154\141\163\163
\137\063\137\143\141\137\062\137\145\166\137\062\060\060\071\056
\143\162\154\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\003\202\001\001\000\064\355\173\132\074\244\224\210\357
\032\021\165\007\057\263\376\074\372\036\121\046\353\207\366\051
\336\340\361\324\306\044\011\351\301\317\125\033\264\060\331\316
\032\376\006\121\246\025\244\055\357\262\113\277\040\050\045\111
\321\246\066\167\064\350\144\337\122\261\021\307\163\172\315\071
\236\302\255\214\161\041\362\132\153\257\337\074\116\125\257\262
\204\145\024\211\271\167\313\052\061\276\317\243\155\317\157\110
\224\062\106\157\347\161\214\240\246\204\031\067\007\362\003\105
\011\053\206\165\174\337\137\151\127\000\333\156\330\246\162\042
\113\120\324\165\230\126\337\267\030\377\103\103\120\256\172\104
\173\360\171\121\327\103\075\247\323\201\323\360\311\117\271\332
\306\227\206\320\202\303\344\102\155\376\260\342\144\116\016\046
\347\100\064\046\265\010\211\327\010\143\143\070\047\165\036\063
\352\156\250\335\237\231\117\164\115\201\211\200\113\335\232\227
\051\134\057\276\201\101\271\214\377\352\175\140\006\236\315\327
\075\323\056\243\025\274\250\346\046\345\157\303\334\270\003\041
\352\237\026\361\054\124\265

```
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "D-TRUST Root Class 3 CA 2 EV 2009"
# Issuer: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
# Serial Number: 623604 (0x983f4)
# Subject: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
# Not Valid Before: Thu Nov 05 08:50:46 2009
# Not Valid After : Mon Nov 05 08:50:46 2029
# Fingerprint (SHA-256):
EE:C5:49:6B:98:8C:E9:86:25:B9:34:09:2E:EC:29:08:BE:D0:B0:F3:16:C2:D4:73:0C:84:EA:F1:F3:D3:48:81
# Fingerprint (SHA1): 96:C9:1B:0B:95:B4:10:98:42:FA:D0:D8:22:79:FE:60:FA:B9:16:83
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 EV 2009"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\226\311\033\013\225\264\020\230\102\372\320\330\042\171\376\140
\372\271\026\203
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\252\306\103\054\136\055\315\304\064\300\120\117\021\002\117\266
END
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\052\060\050\006\003\125\004\003\014
\041\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\105\126\040\062\060
\060\071
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\011\203\364
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "CA Disig Root R2"
#
# Issuer: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Serial Number:00:92:b8:88:db:b0:8a:c1:63
# Subject: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
```

Not Valid Before: Thu Jul 19 09:15:30 2012
Not Valid After : Sat Jul 19 09:15:30 2042
Fingerprint (SHA-256):
E2:3D:4A:03:6D:7B:70:E9:F5:95:B1:42:20:79:D2:B9:1E:DF:BB:1F:B6:51:A0:63:3E:AA:8A:9D:C5:F8:07:03
Fingerprint (SHA1): B5:61:EB:EA:A4:DE:E4:25:4B:69:1A:98:A5:57:47:C2:34:C7:D9:71
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CA Disig Root R2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\056\163\056\061\031\060\027\006\003\125
\004\003\023\020\103\101\040\104\151\163\151\147\040\122\157\157
\164\040\122\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\056\163\056\061\031\060\027\006\003\125
\004\003\023\020\103\101\040\104\151\163\151\147\040\122\157\157
\164\040\122\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\222\270\210\333\260\212\301\143
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\151\060\202\003\121\240\003\002\001\002\002\011\000
\222\270\210\333\260\212\301\143\060\015\006\011\052\206\110\206
\367\015\001\001\013\005\000\060\122\061\013\060\011\006\003\125
\004\006\023\002\123\113\061\023\060\021\006\003\125\004\007\023
\012\102\162\141\164\151\163\154\141\166\141\061\023\060\021\006
\003\125\004\012\023\012\104\151\163\151\147\040\141\056\163\056
\061\031\060\027\006\003\125\004\003\023\020\103\101\040\104\151
\163\151\147\040\122\157\157\164\040\122\062\060\036\027\015\061
\062\060\067\061\071\060\071\061\065\063\060\132\027\015\064\062
\060\067\061\071\060\071\061\065\063\060\132\060\122\061\013\060
\011\006\003\125\004\006\023\002\123\113\061\023\060\021\006\003
\125\004\007\023\012\102\162\141\164\151\163\154\141\166\141\061
\023\060\021\006\003\125\004\012\023\012\104\151\163\151\147\040
\141\056\163\056\061\031\060\027\006\003\125\004\003\023\020\103
\101\040\104\151\163\151\147\040\122\157\157\164\040\122\062\060
\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001

\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000
\242\243\304\000\011\326\205\135\055\155\024\366\302\303\163\236
\065\302\161\125\176\201\373\253\106\120\340\301\174\111\170\346
\253\171\130\074\332\377\174\034\237\330\227\002\170\076\153\101
\004\351\101\275\276\003\054\105\366\057\144\324\253\135\243\107
\075\144\233\351\150\232\306\314\033\077\272\276\262\213\064\002
\056\230\125\031\374\214\157\252\137\332\114\316\115\003\041\243
\330\322\064\223\126\226\313\114\014\000\026\074\137\032\315\310
\307\154\246\255\323\061\247\274\350\345\341\146\326\322\373\003
\264\101\145\311\020\256\016\005\143\306\200\152\151\060\375\322
\356\220\357\015\047\337\237\225\163\364\341\045\332\154\026\336
\101\070\064\352\213\374\321\350\004\024\141\055\101\176\254\307
\167\116\313\121\124\373\136\222\030\033\004\132\150\306\311\304
\372\267\023\240\230\267\021\053\267\326\127\314\174\236\027\321
\313\045\376\206\116\044\056\126\014\170\115\236\001\022\246\053
\247\001\145\156\174\142\035\204\204\337\352\300\153\265\245\052
\225\203\303\123\021\014\163\035\013\262\106\220\321\102\072\316
\100\156\225\255\377\306\224\255\156\227\204\216\175\157\236\212
\200\015\111\155\163\342\173\222\036\303\363\301\363\353\056\005
\157\331\033\317\067\166\004\310\264\132\344\027\247\313\335\166
\037\320\031\166\350\054\005\263\326\234\064\330\226\334\141\207
\221\005\344\104\010\063\301\332\271\010\145\324\256\262\066\015
\353\272\070\272\014\345\233\236\353\215\146\335\231\317\326\211
\101\366\004\222\212\051\051\155\153\072\034\347\165\175\002\161
\016\363\300\347\275\313\031\335\235\140\262\302\146\140\266\261
\004\356\311\346\206\271\232\146\100\250\347\021\355\201\105\003
\213\366\147\131\350\301\006\021\275\335\317\200\002\117\145\100
\170\134\107\120\310\233\346\037\201\173\344\104\250\133\205\232
\342\336\132\325\307\371\072\104\146\113\344\062\124\174\344\154
\234\263\016\075\027\242\262\064\022\326\176\262\250\111\273\321
\172\050\100\276\242\026\037\337\344\067\037\021\163\373\220\012
\145\103\242\015\174\370\006\001\125\063\175\260\015\270\364\365
\256\245\102\127\174\066\021\214\173\136\304\003\235\214\171\235
\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\016\006\003\125\035
\017\001\001\377\004\004\003\002\001\006\060\035\006\003\125\035
\016\004\026\004\024\265\231\370\257\260\224\365\343\040\326\012
\255\316\116\126\244\056\156\102\355\060\015\006\011\052\206\110
\206\367\015\001\001\013\005\000\003\202\002\001\000\046\006\136
\160\347\145\063\310\202\156\331\234\027\072\033\172\146\262\001
\366\170\073\151\136\057\352\377\116\371\050\303\230\052\141\114
\264\044\022\212\175\155\021\024\367\234\265\312\346\274\236\047
\216\114\031\310\251\275\172\300\327\066\016\155\205\162\156\250
\306\242\155\366\372\163\143\177\274\156\171\010\034\235\212\237
\032\212\123\246\330\273\331\065\125\261\021\305\251\003\263\126
\073\271\204\223\042\136\176\301\366\022\122\213\352\054\147\274
\376\066\114\365\270\317\321\263\111\222\073\323\051\016\231\033
\226\367\141\270\073\304\053\266\170\154\264\043\157\360\375\323

\262\136\165\037\231\225\250\254\366\332\341\305\061\173\373\321
\106\263\322\274\147\264\142\124\272\011\367\143\260\223\242\232
\371\351\122\056\213\140\022\253\374\365\140\126\357\020\134\213
\304\032\102\334\203\133\144\016\313\265\274\326\117\301\174\074
\156\215\023\155\373\173\353\060\320\334\115\257\305\325\266\245
\114\133\161\311\350\061\276\350\070\006\110\241\032\342\352\322
\336\022\071\130\032\377\200\016\202\165\346\267\311\007\154\016
\357\377\070\361\230\161\304\267\177\016\025\320\045\151\275\042
\235\053\355\005\366\106\107\254\355\300\360\324\073\342\354\356
\226\133\220\023\116\036\126\072\353\260\357\226\273\226\043\021
\272\362\103\206\164\144\225\310\050\165\337\035\065\272\322\067
\203\070\123\070\066\073\317\154\351\371\153\016\320\373\004\350
\117\167\327\145\001\170\206\014\172\076\041\142\361\177\143\161
\014\311\237\104\333\250\047\242\165\276\156\201\076\327\300\353
\033\230\017\160\134\064\262\212\314\300\205\030\353\156\172\263
\367\132\241\007\277\251\102\222\363\140\042\227\344\024\241\007
\233\116\166\300\216\175\375\244\045\307\107\355\377\037\163\254
\314\303\245\351\157\012\216\233\145\302\120\205\265\243\240\123
\022\314\125\207\141\363\201\256\020\106\141\275\104\041\270\302
\075\164\317\176\044\065\372\034\007\016\233\075\042\312\357\061
\057\214\254\022\275\357\100\050\374\051\147\237\262\023\117\146
\044\304\123\031\351\036\051\025\357\346\155\260\177\055\147\375
\363\154\033\165\106\243\345\112\027\351\244\327\013
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "CA Disig Root R2"
Issuer: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
Serial Number:00:92:b8:88:db:b0:8a:c1:63
Subject: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
Not Valid Before: Thu Jul 19 09:15:30 2012
Not Valid After : Sat Jul 19 09:15:30 2042
Fingerprint (SHA-256):
E2:3D:4A:03:6D:7B:70:E9:F5:95:B1:42:20:79:D2:B9:1E:DF:BB:1F:B6:51:A0:63:3E:AA:8A:9D:C5:F8:07:03
Fingerprint (SHA1): B5:61:EB:EA:A4:DE:E4:25:4B:69:1A:98:A5:57:47:C2:34:C7:D9:71
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CA Disig Root R2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\265\141\353\352\244\336\344\045\113\151\032\230\245\127\107\302
\064\307\331\161
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\046\001\373\330\047\247\027\232\105\124\070\032\103\001\073\003

```
END
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\056\163\056\061\031\060\027\006\003\125
\004\003\023\020\103\101\040\104\151\163\151\147\040\122\157\157
\164\040\122\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\222\270\210\333\260\212\301\143
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "ACCVRAIZ1"
#
# Issuer: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Serial Number:5e:c3:b7:a6:43:7f:a4:e0
# Subject: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Not Valid Before: Thu May 05 09:37:37 2011
# Not Valid After : Tue Dec 31 09:37:37 2030
# Fingerprint (SHA-256):
9A:6E:C0:12:E1:A7:DA:9D:BE:34:19:4D:47:8A:D7:C0:DB:18:22:FB:07:1D:F1:29:81:49:6E:D1:04:38:41:13
# Fingerprint (SHA1): 93:05:7A:88:15:C6:4F:CE:88:2F:FA:91:16:52:28:78:BC:53:64:17
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ACCVRAIZ1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\102\061\022\060\020\006\003\125\004\003\014\011\101\103\103
\126\122\101\111\132\061\061\020\060\016\006\003\125\004\013\014
\007\120\113\111\101\103\103\126\061\015\060\013\006\003\125\004
\012\014\004\101\103\103\126\061\013\060\011\006\003\125\004\006
\023\002\105\123
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\102\061\022\060\020\006\003\125\004\003\014\011\101\103\103
\126\122\101\111\132\061\061\020\060\016\006\003\125\004\013\014
\007\120\113\111\101\103\103\126\061\015\060\013\006\003\125\004
\012\014\004\101\103\103\126\061\013\060\011\006\003\125\004\006
\023\002\105\123
```

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\136\303\267\246\103\177\244\340
END
CKA_VALUE MULTILINE_OCTAL
\060\202\007\323\060\202\005\273\240\003\002\001\002\002\010\136
\303\267\246\103\177\244\340\060\015\006\011\052\206\110\206\367
\015\001\001\005\005\000\060\102\061\022\060\020\006\003\125\004
\003\014\011\101\103\103\126\122\101\111\132\061\061\020\060\016
\006\003\125\004\013\014\007\120\113\111\101\103\103\126\061\015
\060\013\006\003\125\004\012\014\004\101\103\103\126\061\013\060
\011\006\003\125\004\006\023\002\105\123\060\036\027\015\061\061
\060\065\060\065\060\071\063\067\063\067\132\027\015\063\060\061
\062\063\061\060\071\063\067\063\067\132\060\102\061\022\060\020
\006\003\125\004\003\014\011\101\103\103\126\122\101\111\132\061
\061\020\060\016\006\003\125\004\013\014\007\120\113\111\101\103
\103\126\061\015\060\013\006\003\125\004\012\014\004\101\103\103
\126\061\013\060\011\006\003\125\004\006\023\002\105\123\060\202
\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\233
\251\253\277\141\112\227\257\057\227\146\232\164\137\320\331\226
\375\317\342\344\146\357\037\037\107\063\302\104\243\337\232\336
\037\265\124\335\025\174\151\065\021\157\273\310\014\216\152\030
\036\330\217\331\026\274\020\110\066\134\360\143\263\220\132\134
\044\067\327\243\326\313\011\161\271\361\001\162\204\260\175\333
\115\200\315\374\323\157\311\370\332\266\016\202\322\105\205\250
\033\150\250\075\350\364\104\154\275\241\302\313\003\276\214\076
\023\000\204\337\112\110\300\343\042\012\350\351\067\247\030\114
\261\011\015\043\126\177\004\115\331\027\204\030\245\310\332\100
\224\163\353\316\016\127\074\003\201\072\235\012\241\127\103\151
\254\127\155\171\220\170\345\265\264\073\330\274\114\215\050\241
\247\243\247\272\002\116\045\321\052\256\355\256\003\042\270\153
\040\017\060\050\124\225\177\340\356\316\012\146\235\321\100\055
\156\042\257\235\032\301\005\031\322\157\300\362\237\370\173\263
\002\102\373\120\251\035\055\223\017\043\253\306\301\017\222\377
\320\242\025\365\123\011\161\034\377\105\023\204\346\046\136\370
\340\210\034\012\374\026\266\250\163\006\270\360\143\204\002\240
\306\132\354\347\164\337\160\256\243\203\045\352\326\307\227\207
\223\247\306\212\212\063\227\140\067\020\076\227\076\156\051\025
\326\241\017\321\210\054\022\237\157\252\244\306\102\353\101\242
\343\225\103\323\001\205\155\216\273\073\363\043\066\307\376\073
\340\241\045\007\110\253\311\211\164\377\010\217\200\277\300\226
\145\363\356\354\113\150\275\235\210\303\061\263\100\361\350\317
\366\070\273\234\344\321\177\324\345\130\233\174\372\324\363\016
\233\165\221\344\272\122\056\031\176\321\365\315\132\031\374\272
\006\366\373\122\250\113\231\004\335\370\371\264\213\120\243\116
\142\211\360\207\044\372\203\102\301\207\372\325\055\051\052\132
\161\172\144\152\327\047\140\143\015\333\316\111\365\215\037\220

\211\062\027\370\163\103\270\322\132\223\206\141\326\341\165\012
\352\171\146\166\210\117\161\353\004\045\326\012\132\172\223\345
\271\113\027\100\017\261\266\271\365\336\117\334\340\263\254\073
\021\160\140\204\112\103\156\231\040\300\051\161\012\300\145\002
\003\001\000\001\243\202\002\313\060\202\002\307\060\175\006\010
\053\006\001\005\005\007\001\001\004\161\060\157\060\114\006\010
\053\006\001\005\005\007\060\002\206\100\150\164\164\160\072\057
\057\167\167\167\056\141\143\143\166\056\145\163\057\146\151\154
\145\141\144\155\151\156\057\101\162\143\150\151\166\157\163\057
\143\145\162\164\151\146\151\143\141\144\157\163\057\162\141\151
\172\141\143\143\166\061\056\143\162\164\060\037\006\010\053\006
\001\005\005\007\060\001\206\023\150\164\164\160\072\057\057\157
\143\163\160\056\141\143\143\166\056\145\163\060\035\006\003\125
\035\016\004\026\004\024\322\207\264\343\337\067\047\223\125\366
\126\352\201\345\066\314\214\036\077\275\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\037\006\003\125
\035\043\004\030\060\026\200\024\322\207\264\343\337\067\047\223
\125\366\126\352\201\345\066\314\214\036\077\275\060\202\001\163
\006\003\125\035\040\004\202\001\152\060\202\001\146\060\202\001
\142\006\004\125\035\040\000\060\202\001\130\060\202\001\042\006
\010\053\006\001\005\005\007\002\002\060\202\001\024\036\202\001
\020\000\101\000\165\000\164\000\157\000\162\000\151\000\144\000
\141\000\144\000\040\000\144\000\145\000\040\000\103\000\145\000
\162\000\164\000\151\000\146\000\151\000\143\000\141\000\143\000
\151\000\363\000\156\000\040\000\122\000\141\000\355\000\172\000
\040\000\144\000\145\000\040\000\154\000\141\000\040\000\101\000
\103\000\103\000\126\000\040\000\050\000\101\000\147\000\145\000
\156\000\143\000\151\000\141\000\040\000\144\000\145\000\040\000
\124\000\145\000\143\000\156\000\157\000\154\000\157\000\147\000
\355\000\141\000\040\000\171\000\040\000\103\000\145\000\162\000
\164\000\151\000\146\000\151\000\143\000\141\000\143\000\151\000
\363\000\156\000\040\000\105\000\154\000\145\000\143\000\164\000
\162\000\363\000\156\000\151\000\143\000\141\000\054\000\040\000
\103\000\111\000\106\000\040\000\121\000\064\000\066\000\060\000
\061\000\061\000\065\000\066\000\105\000\051\000\056\000\040\000
\103\000\120\000\123\000\040\000\145\000\156\000\040\000\150\000
\164\000\164\000\160\000\072\000\057\000\057\000\167\000\167\000
\167\000\056\000\141\000\143\000\143\000\166\000\056\000\145\000
\163\060\060\006\010\053\006\001\005\005\007\002\001\026\044\150
\164\164\160\072\057\057\167\167\167\056\141\143\143\166\056\145
\163\057\154\145\147\151\163\154\141\143\151\157\156\137\143\056
\150\164\155\060\125\006\003\125\035\037\004\116\060\114\060\112
\240\110\240\106\206\104\150\164\164\160\072\057\057\167\167\167
\056\141\143\143\166\056\145\163\057\146\151\154\145\141\144\155
\151\156\057\101\162\143\150\151\166\157\163\057\143\145\162\164
\151\146\151\143\141\144\157\163\057\162\141\151\172\141\143\143
\166\061\137\144\145\162\056\143\162\154\060\016\006\003\125\035
\017\001\001\377\004\004\003\002\001\006\060\027\006\003\125\035

\021\004\020\060\016\201\014\141\143\143\166\100\141\143\143\166
\056\145\163\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\003\202\002\001\000\227\061\002\237\347\375\103\147\110
\104\024\344\051\207\355\114\050\146\320\217\065\332\115\141\267
\112\227\115\265\333\220\340\005\056\016\306\171\320\362\227\151
\017\275\004\107\331\276\333\265\051\332\233\331\256\251\231\325
\323\074\060\223\365\215\241\250\374\006\215\104\364\312\026\225
\174\063\334\142\213\250\067\370\047\330\011\055\033\357\310\024
\047\040\251\144\104\377\056\326\165\252\154\115\140\100\031\111
\103\124\143\332\342\314\272\146\345\117\104\172\133\331\152\201
\053\100\325\177\371\001\047\130\054\310\355\110\221\174\077\246
\000\317\304\051\163\021\066\336\206\031\076\235\356\031\212\033
\325\260\355\216\075\234\052\300\015\330\075\146\343\074\015\275
\325\224\134\342\342\247\065\033\004\000\366\077\132\215\352\103
\275\137\211\035\251\301\260\314\231\342\115\000\012\332\311\047
\133\347\023\220\134\344\365\063\242\125\155\334\340\011\115\057
\261\046\133\047\165\000\011\304\142\167\051\010\137\236\131\254
\266\176\255\237\124\060\042\003\301\036\161\144\376\371\070\012
\226\030\335\002\024\254\043\313\006\034\036\244\175\215\015\336
\047\101\350\255\332\025\267\260\043\335\053\250\323\332\045\207
\355\350\125\104\115\210\364\066\176\204\232\170\254\367\016\126
\111\016\326\063\045\326\204\120\102\154\040\022\035\052\325\276
\274\362\160\201\244\160\140\276\005\265\233\236\004\104\276\141
\043\254\351\245\044\214\021\200\224\132\242\242\271\111\322\301
\334\321\247\355\061\021\054\236\031\246\356\341\125\341\300\352
\317\015\204\344\027\267\242\174\245\336\125\045\006\356\314\300
\207\134\100\332\314\225\077\125\340\065\307\270\204\276\264\135
\315\172\203\001\162\356\207\346\137\035\256\265\205\306\046\337
\346\301\232\351\036\002\107\237\052\250\155\251\133\317\354\105
\167\177\230\047\232\062\135\052\343\204\356\305\230\146\057\226
\040\035\335\330\303\047\327\260\371\376\331\175\315\320\237\217
\013\024\130\121\237\057\213\303\070\055\336\350\217\326\215\207
\244\365\126\103\026\231\054\364\244\126\264\064\270\141\067\311
\302\130\200\033\240\227\241\374\131\215\351\021\366\321\017\113
\125\064\106\052\213\206\073
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "ACCVRAIZ1"
Issuer: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
Serial Number:5e:c3:b7:a6:43:7f:a4:e0
Subject: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
Not Valid Before: Thu May 05 09:37:37 2011
Not Valid After : Tue Dec 31 09:37:37 2030
Fingerprint (SHA-256):
9A:6E:C0:12:E1:A7:DA:9D:BE:34:19:4D:47:8A:D7:C0:DB:18:22:FB:07:1D:F1:29:81:49:6E:D1:04:38:41:13

```
# Fingerprint (SHA1): 93:05:7A:88:15:C6:4F:CE:88:2F:FA:91:16:52:28:78:BC:53:64:17
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ACCVRAIZ1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\223\005\172\210\025\306\117\316\210\057\372\221\026\122\050\170
\274\123\144\027
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\320\240\132\356\005\266\011\224\041\241\175\361\262\051\202\002
END
CKA_ISSUER MULTILINE_OCTAL
\060\102\061\022\060\020\006\003\125\004\003\014\011\101\103\103
\126\122\101\111\132\061\061\020\060\016\006\003\125\004\013\014
\007\120\113\111\101\103\103\126\061\015\060\013\006\003\125\004
\012\014\004\101\103\103\126\061\013\060\011\006\003\125\004\006
\023\002\105\123
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\136\303\267\246\103\177\244\340
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "TWCA Global Root CA"
#
# Issuer: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number: 3262 (0xcbe)
# Subject: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Not Valid Before: Wed Jun 27 06:28:33 2012
# Not Valid After : Tue Dec 31 15:59:59 2030
# Fingerprint (SHA-256):
59:76:90:07:F7:68:5D:0F:CD:50:87:2F:9F:95:D5:75:5A:5B:2B:45:7D:81:F3:69:2B:61:0A:98:67:2F:0E:1B
# Fingerprint (SHA1): 9C:BB:48:53:F6:A4:F6:D3:52:A4:E8:32:52:55:60:13:F5:AD:AF:65
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Global Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\023\011\124\101\111\127\101\116
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\055\103\101\061\020\060\016\006\003\125\004\013\023\007\122\157
\157\164\040\103\101\061\034\060\032\006\003\125\004\003\023\023
\124\127\103\101\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\023\011\124\101\111\127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\023\007\122\157
\157\164\040\103\101\061\034\060\032\006\003\125\004\003\023\023
\124\127\103\101\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\014\276
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\101\060\202\003\051\240\003\002\001\002\002\002\014
\276\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000
\060\121\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\023\011\124\101\111\127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\023\007\122\157
\157\164\040\103\101\061\034\060\032\006\003\125\004\003\023\023
\124\127\103\101\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101\060\036\027\015\061\062\060\066\062\067\060\066\062
\070\063\063\132\027\015\063\060\061\062\063\061\061\065\065\071
\065\071\132\060\121\061\013\060\011\006\003\125\004\006\023\002
\124\127\061\022\060\020\006\003\125\004\012\023\011\124\101\111
\127\101\116\055\103\101\061\020\060\016\006\003\125\004\013\023
\007\122\157\157\164\040\103\101\061\034\060\032\006\003\125\004
\003\023\023\124\127\103\101\040\107\154\157\142\141\154\040\122
\157\157\164\040\103\101\060\202\002\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202
\002\012\002\202\002\001\000\260\005\333\310\353\214\304\156\212
\041\357\216\115\234\161\012\037\122\160\355\155\202\234\227\305
\327\114\116\105\111\313\100\102\265\022\064\154\031\302\164\244
\061\137\205\002\227\354\103\063\012\123\322\234\214\216\267\270
\171\333\053\325\152\362\216\146\304\356\053\001\007\222\324\263
\320\002\337\120\366\125\257\146\016\313\340\107\140\057\053\062
\071\065\122\072\050\203\370\173\026\306\030\270\142\326\107\045
\221\316\360\031\022\115\255\143\365\323\077\165\137\051\360\241
\060\034\052\240\230\246\025\275\356\375\031\066\360\342\221\103
\217\372\312\326\020\047\111\114\357\335\301\361\205\160\233\312
\352\250\132\103\374\155\206\157\163\351\067\105\251\360\066\307
\314\210\165\036\273\154\006\377\233\153\076\027\354\141\252\161
\174\306\035\242\367\111\351\025\265\074\326\241\141\365\021\367
\005\157\035\375\021\276\320\060\007\302\051\260\011\116\046\334

\343\242\250\221\152\037\302\221\105\210\134\345\230\270\161\245
\025\031\311\174\165\021\314\160\164\117\055\233\035\221\104\375
\126\050\240\376\273\206\152\310\372\134\013\130\334\306\113\166
\310\253\042\331\163\017\245\364\132\002\211\077\117\236\042\202
\356\242\164\123\052\075\123\047\151\035\154\216\062\054\144\000
\046\143\141\066\116\243\106\267\077\175\263\055\254\155\220\242
\225\242\316\317\332\202\347\007\064\031\226\351\270\041\252\051
\176\246\070\276\216\051\112\041\146\171\037\263\303\265\011\147
\336\326\324\007\106\363\052\332\346\042\067\140\313\201\266\017
\240\017\351\310\225\177\277\125\221\005\172\317\075\025\300\157
\336\011\224\001\203\327\064\033\314\100\245\360\270\233\147\325
\230\221\073\247\204\170\225\046\244\132\010\370\053\164\264\000
\004\074\337\270\024\216\350\337\251\215\154\147\222\063\035\300
\267\322\354\222\310\276\011\277\054\051\005\157\002\153\236\357
\274\277\052\274\133\300\120\217\101\160\161\207\262\115\267\004
\251\204\243\062\257\256\356\153\027\213\262\261\376\154\341\220
\214\210\250\227\110\316\310\115\313\363\006\317\137\152\012\102
\261\036\036\167\057\216\240\346\222\016\006\374\005\042\322\046
\341\061\121\175\062\334\017\002\003\001\000\001\243\043\060\041
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000
\003\202\002\001\000\137\064\201\166\357\226\035\325\345\265\331
\002\143\204\026\301\256\240\160\121\247\367\114\107\065\310\013
\327\050\075\211\161\331\252\063\101\352\024\033\154\041\000\300
\154\102\031\176\237\151\133\040\102\337\242\322\332\304\174\227
\113\215\260\350\254\310\356\245\151\004\231\012\222\246\253\047
\056\032\115\201\277\204\324\160\036\255\107\376\375\112\235\063
\340\362\271\304\105\010\041\012\332\151\151\163\162\015\276\064
\376\224\213\255\303\036\065\327\242\203\357\345\070\307\245\205
\037\253\317\064\354\077\050\376\014\361\127\206\116\311\125\367
\034\324\330\245\175\006\172\157\325\337\020\337\201\116\041\145
\261\266\341\027\171\225\105\006\316\137\314\334\106\211\143\150
\104\215\223\364\144\160\240\075\235\050\005\303\071\160\270\142
\173\040\375\344\333\351\010\241\270\236\075\011\307\117\373\054
\370\223\166\101\336\122\340\341\127\322\235\003\274\167\236\376
\236\051\136\367\301\121\140\037\336\332\013\262\055\165\267\103
\110\223\347\366\171\306\204\135\200\131\140\224\374\170\230\217
\074\223\121\355\100\220\007\337\144\143\044\313\116\161\005\241
\327\224\032\210\062\361\042\164\042\256\245\246\330\022\151\114
\140\243\002\356\053\354\324\143\222\013\136\276\057\166\153\243
\266\046\274\217\003\330\012\362\114\144\106\275\071\142\345\226
\353\064\143\021\050\314\225\361\255\357\357\334\200\130\110\351
\113\270\352\145\254\351\374\200\265\265\310\105\371\254\301\237
\331\271\352\142\210\216\304\361\113\203\022\255\346\213\204\326
\236\302\353\203\030\237\152\273\033\044\140\063\160\314\354\367
\062\363\134\331\171\175\357\236\244\376\311\043\303\044\356\025
\222\261\075\221\117\046\206\275\146\163\044\023\352\244\256\143

\301\255\175\204\003\074\020\170\206\033\171\343\304\363\362\004
\225\040\256\043\202\304\263\072\000\142\277\346\066\044\341\127
\272\307\036\220\165\325\137\077\225\141\053\301\073\315\345\263
\150\141\320\106\046\251\041\122\151\055\353\056\307\353\167\316
\246\072\265\003\063\117\166\321\347\134\124\001\135\313\170\364
\311\014\277\317\022\216\027\055\043\150\224\347\253\376\251\262
\053\006\320\004\315
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "TWCA Global Root CA"
Issuer: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
Serial Number: 3262 (0xcbe)
Subject: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
Not Valid Before: Wed Jun 27 06:28:33 2012
Not Valid After : Tue Dec 31 15:59:59 2030
Fingerprint (SHA-256):
59:76:90:07:F7:68:5D:0F:CD:50:87:2F:9F:95:D5:75:5A:5B:2B:45:7D:81:F3:69:2B:61:0A:98:67:2F:0E:1B
Fingerprint (SHA1): 9C:BB:48:53:F6:A4:F6:D3:52:A4:E8:32:52:55:60:13:F5:AD:AF:65
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Global Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\234\273\110\123\366\244\366\323\122\244\350\062\122\125\140\023
\365\255\257\145
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\371\003\176\317\346\236\074\163\172\052\220\007\151\377\053\226
END
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\023\011\124\101\111\127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\023\007\122\157
\157\164\040\103\101\061\034\060\032\006\003\125\004\003\023\023
\124\127\103\101\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\014\276
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

```
#
# Certificate "TeliaSonera Root CA v1"
#
# Issuer: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Serial Number:00:95:be:16:a0:f7:2e:46:f1:7b:39:82:72:fa:8b:cd:96
# Subject: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Not Valid Before: Thu Oct 18 12:00:50 2007
# Not Valid After : Mon Oct 18 12:00:50 2032
# Fingerprint (SHA-256):
DD:69:36:FE:21:F8:F0:77:C1:23:A1:A5:21:C1:22:24:F7:22:55:B7:3E:03:A7:26:06:93:E8:A2:4B:0F:A3:89
# Fingerprint (SHA1): 43:13:BB:96:F1:D5:86:9B:C1:4E:6A:92:F6:CF:F6:34:69:87:82:37
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TeliaSonera Root CA v1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154
\151\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004
\003\014\026\124\145\154\151\141\123\157\156\145\162\141\040\122
\157\157\164\040\103\101\040\166\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154
\151\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004
\003\014\026\124\145\154\151\141\123\157\156\145\162\141\040\122
\157\157\164\040\103\101\040\166\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\225\276\026\240\367\056\106\361\173\071\202\162\372
\213\315\226
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\070\060\202\003\040\240\003\002\001\002\002\021\000
\225\276\026\240\367\056\106\361\173\071\202\162\372\213\315\226
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154\151
\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004\003
\014\026\124\145\154\151\141\123\157\156\145\162\141\040\122\157
\157\164\040\103\101\040\166\061\060\036\027\015\060\067\061\060
\061\070\061\062\060\060\065\060\132\027\015\063\062\061\060\061
\070\061\062\060\060\065\060\132\060\067\061\024\060\022\006\003
\125\004\012\014\013\124\145\154\151\141\123\157\156\145\162\141
\061\037\060\035\006\003\125\004\003\014\026\124\145\154\151\141
\123\157\156\145\162\141\040\122\157\157\164\040\103\101\040\166
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\061\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002
\001\000\302\276\353\047\360\041\243\363\151\046\125\176\235\305
\125\026\221\134\375\357\041\277\123\200\172\055\322\221\214\143
\061\360\354\044\360\303\245\322\162\174\020\155\364\067\267\345
\346\174\171\352\214\265\202\213\256\110\266\254\000\334\145\165
\354\052\115\137\301\207\365\040\145\053\201\250\107\076\211\043
\225\060\026\220\177\350\127\007\110\347\031\256\277\105\147\261
\067\033\006\052\376\336\371\254\175\203\373\136\272\344\217\227
\147\276\113\216\215\144\007\127\070\125\151\064\066\075\023\110
\357\117\342\323\146\036\244\317\032\267\136\066\063\324\264\006
\275\030\001\375\167\204\120\000\105\365\214\135\350\043\274\176
\376\065\341\355\120\173\251\060\215\031\323\011\216\150\147\135
\277\074\227\030\123\273\051\142\305\312\136\162\301\307\226\324
\333\055\240\264\037\151\003\354\352\342\120\361\014\074\360\254
\363\123\055\360\034\365\355\154\071\071\163\200\026\310\122\260
\043\315\340\076\334\335\074\107\240\273\065\212\342\230\150\213
\276\345\277\162\356\322\372\245\355\022\355\374\230\030\251\046
\166\334\050\113\020\040\034\323\177\026\167\055\355\157\200\367
\111\273\123\005\273\135\150\307\324\310\165\026\077\211\132\213
\367\027\107\324\114\361\322\211\171\076\115\075\230\250\141\336
\072\036\322\370\136\003\340\301\311\034\214\323\215\115\323\225
\066\263\067\137\143\143\233\063\024\360\055\046\153\123\174\211
\214\062\302\156\354\075\041\000\071\311\241\150\342\120\203\056
\260\072\053\363\066\240\254\057\344\157\141\302\121\011\071\076
\213\123\271\273\147\332\334\123\271\166\131\066\235\103\345\040
\340\075\062\140\205\042\121\267\307\063\273\335\025\057\244\170
\246\007\173\201\106\066\004\206\335\171\065\307\225\054\073\260
\243\027\065\345\163\037\264\134\131\357\332\352\020\145\173\172
\320\177\237\263\264\052\067\073\160\213\233\133\271\053\267\354
\262\121\022\227\123\051\132\324\360\022\020\334\117\002\273\022
\222\057\142\324\077\151\103\174\015\326\374\130\165\001\210\235
\130\026\113\336\272\220\377\107\001\211\006\152\366\137\262\220
\152\263\002\246\002\210\277\263\107\176\052\331\325\372\150\170
\065\115\002\003\001\000\001\243\077\060\075\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\013\006\003
\125\035\017\004\004\003\002\001\006\060\035\006\003\125\035\016
\004\026\004\024\360\217\131\070\000\263\365\217\232\226\014\325
\353\372\173\252\027\350\023\022\060\015\006\011\052\206\110\206
\367\015\001\001\005\005\000\003\202\002\001\000\276\344\134\142
\116\044\364\014\010\377\360\323\014\150\344\223\111\042\077\104
\047\157\273\155\336\203\146\316\250\314\015\374\365\232\006\345
\167\024\221\353\235\101\173\231\052\204\345\377\374\041\301\135
\360\344\037\127\267\165\251\241\137\002\046\377\327\307\367\116
\336\117\370\367\034\106\300\172\117\100\054\042\065\360\031\261
\320\153\147\054\260\250\340\300\100\067\065\366\204\134\134\343
\257\102\170\376\247\311\015\120\352\015\204\166\366\121\357\203
\123\306\172\377\016\126\111\056\217\172\326\014\346\047\124\343

\115\012\140\162\142\315\221\007\326\245\277\310\231\153\355\304
\031\346\253\114\021\070\305\157\061\342\156\111\310\077\166\200
\046\003\046\051\340\066\366\366\040\123\343\027\160\064\027\235
\143\150\036\153\354\303\115\206\270\023\060\057\135\106\015\107
\103\325\033\252\131\016\271\134\215\006\110\255\164\207\137\307
\374\061\124\101\023\342\307\041\016\236\340\036\015\341\300\173
\103\205\220\305\212\130\306\145\012\170\127\362\306\043\017\001
\331\040\113\336\017\373\222\205\165\052\134\163\215\155\173\045
\221\312\356\105\256\006\113\000\314\323\261\131\120\332\072\210
\073\051\103\106\136\227\053\124\316\123\157\215\112\347\226\372
\277\161\016\102\213\174\375\050\240\320\110\312\332\304\201\114
\273\242\163\223\046\310\353\014\326\046\210\266\300\044\317\273
\275\133\353\165\175\351\010\216\206\063\054\171\167\011\151\245
\211\374\263\160\220\207\166\217\323\042\273\102\316\275\163\013
\040\046\052\320\233\075\160\036\044\154\315\207\166\251\027\226
\267\317\015\222\373\216\030\251\230\111\321\236\376\140\104\162
\041\271\031\355\302\365\061\361\071\110\210\220\044\165\124\026
\255\316\364\370\151\024\144\071\373\243\270\272\160\100\307\047
\034\277\304\126\123\372\143\145\320\363\034\016\026\365\153\206
\130\115\030\324\344\015\216\245\235\133\221\334\166\044\120\077
\306\052\373\331\267\234\265\326\346\320\331\350\031\213\025\161
\110\255\267\352\330\131\210\324\220\277\026\263\331\351\254\131
\141\124\310\034\272\312\301\312\341\271\040\114\217\072\223\211
\245\240\314\277\323\366\165\244\165\226\155\126
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "TeliaSonera Root CA v1"
Issuer: CN=TeliaSonera Root CA v1,O=TeliaSonera
Serial Number:00:95:be:16:a0:f7:2e:46:f1:7b:39:82:72:fa:8b:cd:96
Subject: CN=TeliaSonera Root CA v1,O=TeliaSonera
Not Valid Before: Thu Oct 18 12:00:50 2007
Not Valid After : Mon Oct 18 12:00:50 2032
Fingerprint (SHA-256):
DD:69:36:FE:21:F8:F0:77:C1:23:A1:A5:21:C1:22:24:F7:22:55:B7:3E:03:A7:26:06:93:E8:A2:4B:0F:A3:89
Fingerprint (SHA1): 43:13:BB:96:F1:D5:86:9B:C1:4E:6A:92:F6:CF:F6:34:69:87:82:37
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TeliaSonera Root CA v1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\103\023\273\226\361\325\206\233\301\116\152\222\366\317\366\064
\151\207\202\067
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL

\067\101\111\033\030\126\232\046\365\255\302\146\373\100\245\114
END
CKA_ISSUER MULTILINE_OCTAL
\060\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154
\151\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004
\003\014\026\124\145\154\151\141\123\157\156\145\162\141\040\122
\157\157\164\040\103\101\040\166\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\225\276\026\240\367\056\106\361\173\071\202\162\372
\213\315\226
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "E-Tugra Certification Authority"
#
Issuer: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBG Bili..im
Teknolojileri ve Hizmetleri A....,L=Ankara,C=TR
Serial Number:6a:68:3e:9c:51:9b:cb:53
Subject: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBG Bili..im
Teknolojileri ve Hizmetleri A....,L=Ankara,C=TR
Not Valid Before: Tue Mar 05 12:09:48 2013
Not Valid After : Fri Mar 03 12:09:48 2023
Fingerprint (SHA-256):
B0:BF:D5:2B:B0:D7:D9:BD:92:BF:5D:4D:C1:3D:A2:55:C0:2C:54:2F:37:83:65:EA:89:39:11:F5:5E:55:F2:3C
Fingerprint (SHA1): 51:C6:E7:08:49:06:6E:F3:92:D4:5C:A0:0D:6D:A3:62:8F:C3:52:39
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-Tugra Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\262\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\017\060\015\006\003\125\004\007\014\006\101\156\153\141\162
\141\061\100\060\076\006\003\125\004\012\014\067\105\055\124\165
\304\237\162\141\040\105\102\107\040\102\151\154\151\305\237\151
\155\040\124\145\153\156\157\154\157\152\151\154\145\162\151\040
\166\145\040\110\151\172\155\145\164\154\145\162\151\040\101\056
\305\236\056\061\046\060\044\006\003\125\004\013\014\035\105\055
\124\165\147\162\141\040\123\145\162\164\151\146\151\153\141\163
\171\157\156\040\115\145\162\153\145\172\151\061\050\060\046\006
\003\125\004\003\014\037\105\055\124\165\147\162\141\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150

\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\262\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\017\060\015\006\003\125\004\007\014\006\101\156\153\141\162
\141\061\100\060\076\006\003\125\004\012\014\067\105\055\124\165
\304\237\162\141\040\105\102\107\040\102\151\154\151\305\237\151
\155\040\124\145\153\156\157\154\157\152\151\154\145\162\151\040
\166\145\040\110\151\172\155\145\164\154\145\162\151\040\101\056
\305\236\056\061\046\060\044\006\003\125\004\013\014\035\105\055
\124\165\147\162\141\040\123\145\162\164\151\146\151\153\141\163
\171\157\156\040\115\145\162\153\145\172\151\061\050\060\046\006
\003\125\004\003\014\037\105\055\124\165\147\162\141\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\152\150\076\234\121\233\313\123
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\113\060\202\004\063\240\003\002\001\002\002\010\152
\150\076\234\121\233\313\123\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\201\262\061\013\060\011\006\003\125
\004\006\023\002\124\122\061\017\060\015\006\003\125\004\007\014
\006\101\156\153\141\162\141\061\100\060\076\006\003\125\004\012
\014\067\105\055\124\165\304\237\162\141\040\105\102\107\040\102
\151\154\151\305\237\151\155\040\124\145\153\156\157\154\157\152
\151\154\145\162\151\040\166\145\040\110\151\172\155\145\164\154
\145\162\151\040\101\056\305\236\056\061\046\060\044\006\003\125
\004\013\014\035\105\055\124\165\147\162\141\040\123\145\162\164
\151\146\151\153\141\163\171\157\156\040\115\145\162\153\145\172
\151\061\050\060\046\006\003\125\004\003\014\037\105\055\124\165
\147\162\141\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\060\036\027\015\061
\063\060\063\060\065\061\062\060\071\064\070\132\027\015\062\063
\060\063\060\063\061\062\060\071\064\070\132\060\201\262\061\013
\060\011\006\003\125\004\006\023\002\124\122\061\017\060\015\006
\003\125\004\007\014\006\101\156\153\141\162\141\061\100\060\076
\006\003\125\004\012\014\067\105\055\124\165\304\237\162\141\040
\105\102\107\040\102\151\154\151\305\237\151\155\040\124\145\153
\156\157\154\157\152\151\154\145\162\151\040\166\145\040\110\151
\172\155\145\164\154\145\162\151\040\101\056\305\236\056\061\046
\060\044\006\003\125\004\013\014\035\105\055\124\165\147\162\141
\040\123\145\162\164\151\146\151\153\141\163\171\157\156\040\115
\145\162\153\145\172\151\061\050\060\046\006\003\125\004\003\014
\037\105\055\124\165\147\162\141\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171

\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001
\000\342\365\077\223\005\121\036\205\142\124\136\172\013\365\030
\007\203\256\176\257\174\367\324\212\153\245\143\103\071\271\113
\367\303\306\144\211\075\224\056\124\200\122\071\071\007\113\113
\335\205\007\166\207\314\277\057\225\114\314\175\247\075\274\107
\017\230\160\370\214\205\036\164\216\222\155\033\100\321\231\015
\273\165\156\310\251\153\232\300\204\061\257\312\103\313\353\053
\064\350\217\227\153\001\233\325\016\112\010\252\133\222\164\205
\103\323\200\256\241\210\133\256\263\352\136\313\026\232\167\104
\310\241\366\124\150\316\336\217\227\053\272\133\100\002\014\144
\027\300\265\223\315\341\361\023\146\316\014\171\357\321\221\050
\253\137\240\022\122\060\163\031\216\217\341\214\007\242\303\273
\112\360\352\037\025\250\356\045\314\244\106\370\033\042\357\263
\016\103\272\054\044\270\305\054\134\324\034\370\135\144\275\303
\223\136\050\247\077\047\361\216\036\323\052\120\005\243\125\331
\313\347\071\123\300\230\236\214\124\142\213\046\260\367\175\215
\174\344\306\236\146\102\125\202\107\347\262\130\215\146\367\007
\174\056\066\346\120\034\077\333\103\044\305\277\206\107\171\263
\171\034\367\132\364\023\354\154\370\077\342\131\037\225\356\102
\076\271\255\250\062\205\111\227\106\376\113\061\217\132\313\255
\164\107\037\351\221\267\337\050\004\042\240\324\017\135\342\171
\117\352\154\205\206\275\250\246\316\344\372\303\341\263\256\336
\074\121\356\313\023\174\001\177\204\016\135\121\224\236\023\014
\266\056\245\114\371\071\160\066\157\226\312\056\014\104\125\305
\312\372\135\002\243\337\326\144\214\132\263\001\012\251\265\012
\107\027\377\357\221\100\052\216\241\106\072\061\230\345\021\374
\314\273\111\126\212\374\271\320\141\232\157\145\154\346\303\313
\076\165\111\376\217\247\342\211\305\147\327\235\106\023\116\061
\166\073\044\263\236\021\145\206\253\177\357\035\324\370\274\347
\254\132\134\267\132\107\134\125\316\125\264\042\161\133\133\013
\360\317\334\240\141\144\352\251\327\150\012\143\247\340\015\077
\240\257\323\252\322\176\357\121\240\346\121\053\125\222\025\027
\123\313\267\146\016\146\114\370\371\165\114\220\347\022\160\307
\105\002\003\001\000\001\243\143\060\141\060\035\006\003\125\035
\016\004\026\004\024\056\343\333\262\111\320\234\124\171\134\372
\047\052\376\314\116\322\350\116\124\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\037\006\003\125\035
\043\004\030\060\026\200\024\056\343\333\262\111\320\234\124\171
\134\372\047\052\376\314\116\322\350\116\124\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\006\060\015\006\011\052
\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\005
\067\072\364\115\267\105\342\105\165\044\217\266\167\122\350\034
\330\020\223\145\363\362\131\006\244\076\036\051\354\135\321\320
\253\174\340\012\220\110\170\355\116\230\003\231\376\050\140\221
\035\060\035\270\143\174\250\346\065\265\372\323\141\166\346\326
\007\113\312\151\232\262\204\172\167\223\105\027\025\237\044\320
\230\023\022\377\273\240\056\375\116\114\207\370\316\134\252\230

\033\005\340\000\106\112\202\200\245\063\213\050\334\355\070\323
\337\345\076\351\376\373\131\335\141\204\117\322\124\226\023\141
\023\076\217\200\151\276\223\107\265\065\103\322\132\273\075\134
\357\263\102\107\315\073\125\023\006\260\011\333\375\143\366\072
\210\012\231\157\176\341\316\033\123\152\104\146\043\121\010\173
\274\133\122\242\375\006\067\070\100\141\217\112\226\270\220\067
\370\146\307\170\220\000\025\056\213\255\121\065\123\007\250\153
\150\256\371\116\074\007\046\315\010\005\160\314\071\077\166\275
\245\323\147\046\001\206\246\123\322\140\073\174\103\177\125\212
\274\225\032\301\050\071\114\037\103\322\221\364\162\131\212\271
\126\374\077\264\235\332\160\234\166\132\214\103\120\356\216\060
\162\115\337\377\111\367\306\251\147\331\155\254\002\021\342\072
\026\045\247\130\010\313\157\123\101\234\110\070\107\150\063\321
\327\307\217\324\164\041\324\303\005\220\172\377\316\226\210\261
\025\051\135\043\253\320\140\241\022\117\336\364\027\315\062\345
\311\277\310\103\255\375\056\216\361\257\342\364\230\372\022\037
\040\330\300\247\014\205\305\220\364\073\055\226\046\261\054\276
\114\253\353\261\322\212\311\333\170\023\017\036\011\235\155\217
\000\237\002\332\301\372\037\172\172\011\304\112\346\210\052\227
\237\211\213\375\067\137\137\072\316\070\131\206\113\257\161\013
\264\330\362\160\117\237\062\023\343\260\247\127\345\332\332\103
\313\204\064\362\050\304\352\155\364\052\357\301\153\166\332\373
\176\273\205\074\322\123\302\115\276\161\341\105\321\375\043\147
\015\023\165\373\317\145\147\042\235\256\260\011\321\011\377\035
\064\277\376\043\227\067\322\071\372\075\015\006\013\264\333\073
\243\253\157\134\035\266\176\350\263\202\064\355\006\134\044
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "E-Tugra Certification Authority"
Issuer: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBG Bili..im Teknolojileri ve Hizmetleri A....,L=Ankara,C=TR
Serial Number:6a:68:3e:9c:51:9b:cb:53
Subject: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBG Bili..im Teknolojileri ve Hizmetleri A....,L=Ankara,C=TR
Not Valid Before: Tue Mar 05 12:09:48 2013
Not Valid After : Fri Mar 03 12:09:48 2023
Fingerprint (SHA-256):
B0:BF:D5:2B:B0:D7:D9:BD:92:BF:5D:4D:C1:3D:A2:55:C0:2C:54:2F:37:83:65:EA:89:39:11:F5:5E:55:F2:3C
Fingerprint (SHA1): 51:C6:E7:08:49:06:6E:F3:92:D4:5C:A0:0D:6D:A3:62:8F:C3:52:39
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-Tugra Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

\121\306\347\010\111\006\156\363\222\324\134\240\015\155\243\142
\217\303\122\071
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\270\241\003\143\260\275\041\161\160\212\157\023\072\273\171\111
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\262\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\017\060\015\006\003\125\004\007\014\006\101\156\153\141\162
\141\061\100\060\076\006\003\125\004\012\014\067\105\055\124\165
\304\237\162\141\040\105\102\107\040\102\151\154\151\305\237\151
\155\040\124\145\153\156\157\154\157\152\151\154\145\162\151\040
\166\145\040\110\151\172\155\145\164\154\145\162\151\040\101\056
\305\236\056\061\046\060\044\006\003\125\004\013\014\035\105\055
\124\165\147\162\141\040\123\145\162\164\151\146\151\153\141\163
\171\157\156\040\115\145\162\153\145\172\151\061\050\060\046\006
\003\125\004\003\014\037\105\055\124\165\147\162\141\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\152\150\076\234\121\233\313\123
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "T-TeleSec GlobalRoot Class 2"
#
Issuer: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
Serial Number: 1 (0x1)
Subject: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
Not Valid Before: Wed Oct 01 10:40:14 2008
Not Valid After : Sat Oct 01 23:59:59 2033
Fingerprint (SHA-256):
91:E2:F5:78:8D:58:10:EB:A7:BA:58:73:7D:E1:54:8A:8E:CA:CD:01:45:98:BC:0B:14:3E:04:1B:17:05:25:52
Fingerprint (SHA1): 59:0D:2D:7D:88:4F:40:2E:61:7E:A5:62:32:17:65:CF:17:D8:94:E9
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

\060\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\303\060\202\002\253\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163\164
\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040\123
\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060\035
\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155\163
\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045\060
\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123\145
\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154\141
\163\163\040\062\060\036\027\015\060\070\061\060\060\061\061\060
\064\060\061\064\132\027\015\063\063\061\060\060\061\062\063\065
\071\065\071\132\060\201\202\061\013\060\011\006\003\125\004\006
\023\002\104\105\061\053\060\051\006\003\125\004\012\014\042\124
\055\123\171\163\164\145\155\163\040\105\156\164\145\162\160\162
\151\163\145\040\123\145\162\166\151\143\145\163\040\107\155\142
\110\061\037\060\035\006\003\125\004\013\014\026\124\055\123\171
\163\164\145\155\163\040\124\162\165\163\164\040\103\145\156\164
\145\162\061\045\060\043\006\003\125\004\003\014\034\124\055\124
\145\154\145\123\145\143\040\107\154\157\142\141\154\122\157\157
\164\040\103\154\141\163\163\040\062\060\202\001\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017

\000\060\202\001\012\002\202\001\001\000\252\137\332\033\137\350
\163\221\345\332\134\364\242\346\107\345\363\150\125\140\005\035
\002\244\263\233\131\363\036\212\257\064\255\374\015\302\331\110
\031\356\151\217\311\040\374\041\252\007\031\355\260\134\254\145
\307\137\355\002\174\173\174\055\033\326\272\271\200\302\030\202
\026\204\372\146\260\010\306\124\043\201\344\315\271\111\077\366
\117\156\067\110\050\070\017\305\276\347\150\160\375\071\227\115
\322\307\230\221\120\252\304\104\263\043\175\071\107\351\122\142
\326\022\223\136\267\061\226\102\005\373\166\247\036\243\365\302
\374\351\172\305\154\251\161\117\352\313\170\274\140\257\307\336
\364\331\313\276\176\063\245\156\224\203\360\064\372\041\253\352
\216\162\240\077\244\336\060\133\357\206\115\152\225\133\103\104
\250\020\025\034\345\001\127\305\230\361\346\006\050\221\252\040
\305\267\123\046\121\103\262\013\021\225\130\341\300\017\166\331
\300\215\174\201\363\162\160\236\157\376\032\216\331\137\065\306
\262\157\064\174\276\110\117\342\132\071\327\330\235\170\236\237
\206\076\003\136\031\213\104\242\325\307\002\003\001\000\001\243
\102\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\006\060\035\006\003\125\035\016\004\026\004\024\277
\131\040\066\000\171\240\240\042\153\214\325\362\141\322\270\054
\313\202\112\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\003\202\001\001\000\061\003\242\141\013\037\164\350\162
\066\306\155\371\115\236\372\042\250\341\201\126\317\315\273\237
\352\253\221\031\070\257\252\174\025\115\363\266\243\215\245\364
\216\366\104\251\247\350\041\225\255\076\000\142\026\210\360\002
\272\374\141\043\346\063\233\060\172\153\066\142\173\255\004\043
\204\130\145\342\333\053\212\347\045\123\067\142\123\137\274\332
\001\142\051\242\246\047\161\346\072\042\176\301\157\035\225\160
\040\112\007\064\337\352\377\025\200\345\272\327\172\330\133\165
\174\005\172\051\107\176\100\250\061\023\167\315\100\073\264\121
\107\172\056\021\343\107\021\336\235\146\320\213\325\124\146\372
\203\125\352\174\302\051\211\033\351\157\263\316\342\005\204\311
\057\076\170\205\142\156\311\137\301\170\143\164\130\300\110\030
\014\231\071\353\244\314\032\265\171\132\215\025\234\330\024\015
\366\172\007\127\307\042\203\005\055\074\233\045\046\075\030\263
\251\103\174\310\310\253\144\217\016\243\277\234\033\235\060\333
\332\320\031\056\252\074\361\373\063\200\166\344\315\255\031\117
\005\047\216\023\241\156\302
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "T-TeleSec GlobalRoot Class 2"
Issuer: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
Serial Number: 1 (0x1)

Subject: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
Not Valid Before: Wed Oct 01 10:40:14 2008
Not Valid After : Sat Oct 01 23:59:59 2033
Fingerprint (SHA-256):
91:E2:F5:78:8D:58:10:EB:A7:BA:58:73:7D:E1:54:8A:8E:CA:CD:01:45:98:BC:0B:14:3E:04:1B:17:05:25:52
Fingerprint (SHA1): 59:0D:2D:7D:88:4F:40:2E:61:7E:A5:62:32:17:65:CF:17:D8:94:E9
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\131\015\055\175\210\117\100\056\141\176\245\142\062\027\145\317
\027\330\224\351
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\053\233\236\344\173\154\037\000\162\032\314\301\167\171\337\152
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Atos TrustedRoot 2011"
#
Issuer: C=DE,O=Atos,CN=Atos TrustedRoot 2011
Serial Number:5c:33:cb:62:2c:5f:b3:32
Subject: C=DE,O=Atos,CN=Atos TrustedRoot 2011
Not Valid Before: Thu Jul 07 14:58:30 2011
Not Valid After : Tue Dec 31 23:59:59 2030
Fingerprint (SHA-256):
F3:56:BE:A2:44:B7:A9:1E:B3:5D:53:CA:9A:D7:86:4A:CE:01:8E:2D:35:D5:F8:F9:6D:DF:68:A6:F4:1A:A4:74

Fingerprint (SHA1): 2B:B1:F5:3E:55:0C:1D:C5:F1:D4:E6:B7:6A:46:4B:55:06:02:AC:21
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Atos TrustedRoot 2011"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\074\061\036\060\034\006\003\125\004\003\014\025\101\164\157
\163\040\124\162\165\163\164\145\144\122\157\157\164\040\062\060
\061\061\061\015\060\013\006\003\125\004\012\014\004\101\164\157
\163\061\013\060\011\006\003\125\004\006\023\002\104\105
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\074\061\036\060\034\006\003\125\004\003\014\025\101\164\157
\163\040\124\162\165\163\164\145\144\122\157\157\164\040\062\060
\061\061\061\015\060\013\006\003\125\004\012\014\004\101\164\157
\163\061\013\060\011\006\003\125\004\006\023\002\104\105
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\134\063\313\142\054\137\263\062
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\167\060\202\002\137\240\003\002\001\002\002\010\134
\063\313\142\054\137\263\062\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\074\061\036\060\034\006\003\125\004
\003\014\025\101\164\157\163\040\124\162\165\163\164\145\144\122
\157\157\164\040\062\060\061\061\061\015\060\013\006\003\125\004
\012\014\004\101\164\157\163\061\013\060\011\006\003\125\004\006
\023\002\104\105\060\036\027\015\061\061\060\067\060\067\061\064
\065\070\063\060\132\027\015\063\060\061\062\063\061\062\063\065
\071\065\071\132\060\074\061\036\060\034\006\003\125\004\003\014
\025\101\164\157\163\040\124\162\165\163\164\145\144\122\157\157
\164\040\062\060\061\061\061\015\060\013\006\003\125\004\012\014
\004\101\164\157\163\061\013\060\011\006\003\125\004\006\023\002
\104\105\060\202\001\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202
\001\001\000\225\205\073\227\157\052\073\056\073\317\246\363\051
\065\276\317\030\254\076\252\331\370\115\240\076\032\107\271\274
\232\337\362\376\314\076\107\350\172\226\302\044\216\065\364\251
\014\374\202\375\155\301\162\142\047\275\352\153\353\347\212\314
\124\076\220\120\317\200\324\225\373\350\265\202\324\024\305\266
\251\125\045\127\333\261\120\366\260\140\144\131\172\151\317\003
\267\157\015\276\312\076\157\164\162\352\252\060\052\163\142\276
\111\221\141\310\021\376\016\003\052\367\152\040\334\002\025\015
\136\025\152\374\343\202\301\265\305\235\144\011\154\243\131\230
\007\047\307\033\226\053\141\164\161\154\103\361\367\065\211\020

\340\236\354\125\241\067\042\242\207\004\005\054\107\175\264\034
\271\142\051\146\050\312\267\341\223\365\244\224\003\231\271\160
\205\265\346\110\352\215\120\374\331\336\314\157\007\016\335\013
\162\235\200\060\026\007\225\077\050\016\375\305\165\117\123\326
\164\232\264\044\056\216\002\221\317\166\305\233\036\125\164\234
\170\041\261\360\055\361\013\237\302\325\226\030\037\360\124\042
\172\214\007\002\003\001\000\001\243\175\060\173\060\035\006\003
\125\035\016\004\026\004\024\247\245\006\261\054\246\011\140\356
\321\227\351\160\256\274\073\031\154\333\041\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\037\006\003
\125\035\043\004\030\060\026\200\024\247\245\006\261\054\246\011
\140\356\321\227\351\160\256\274\073\031\154\333\041\060\030\006
\003\125\035\040\004\021\060\017\060\015\006\013\053\006\001\004
\001\260\055\003\004\001\001\060\016\006\003\125\035\017\001\001
\377\004\004\003\002\001\206\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\003\202\001\001\000\046\167\064\333\224
\110\206\052\101\235\054\076\006\220\140\304\214\254\013\124\270
\037\271\173\323\007\071\344\372\076\173\262\075\116\355\237\043
\275\227\363\153\134\357\356\375\100\246\337\241\223\241\012\206
\254\357\040\320\171\001\275\170\367\031\330\044\061\064\004\001
\246\272\025\232\303\047\334\330\117\017\314\030\143\377\231\017
\016\221\153\165\026\341\041\374\330\046\307\107\267\246\317\130
\162\161\176\272\341\115\225\107\073\311\257\155\241\264\301\354
\211\366\264\017\070\265\342\144\334\045\317\246\333\353\232\134
\231\241\305\010\336\375\346\332\325\326\132\105\014\304\267\302
\265\024\357\264\021\377\016\025\265\365\365\333\306\275\353\132
\247\360\126\042\251\074\145\124\306\025\250\275\206\236\315\203
\226\150\172\161\201\211\341\013\341\352\021\033\150\010\314\151
\236\354\236\101\236\104\062\046\172\342\207\012\161\075\353\344
\132\244\322\333\305\315\306\336\140\177\271\363\117\104\222\357
\052\267\030\076\247\031\331\013\175\261\067\101\102\260\272\140
\035\362\376\011\021\260\360\207\173\247\235
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Atos TrustedRoot 2011"
Issuer: C=DE,O=Atos,CN=Atos TrustedRoot 2011
Serial Number:5c:33:cb:62:2c:5f:b3:32
Subject: C=DE,O=Atos,CN=Atos TrustedRoot 2011
Not Valid Before: Thu Jul 07 14:58:30 2011
Not Valid After : Tue Dec 31 23:59:59 2030
Fingerprint (SHA-256):
F3:56:BE:A2:44:B7:A9:1E:B3:5D:53:CA:9A:D7:86:4A:CE:01:8E:2D:35:D5:F8:F9:6D:DF:68:A6:F4:1A:A4:74
Fingerprint (SHA1): 2B:B1:F5:3E:55:0C:1D:C5:F1:D4:E6:B7:6A:46:4B:55:06:02:AC:21
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Atos TrustedRoot 2011"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\053\261\365\076\125\014\035\305\361\324\346\267\152\106\113\125
\006\002\254\041
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\256\271\304\062\113\254\177\135\146\314\167\224\273\052\167\126
END
CKA_ISSUER MULTILINE_OCTAL
\060\074\061\036\060\034\006\003\125\004\003\014\025\101\164\157
\163\040\124\162\165\163\164\145\144\122\157\157\164\040\062\060
\061\061\061\015\060\013\006\003\125\004\012\014\004\101\164\157
\163\061\013\060\011\006\003\125\004\006\023\002\104\105
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\134\063\313\142\054\137\263\062
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "QuoVadis Root CA 1 G3"
#
Issuer: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
Serial Number:78:58:5f:2e:ad:2c:19:4b:e3:37:07:35:34:13:28:b5:96:d4:65:93
Subject: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
Not Valid Before: Thu Jan 12 17:27:44 2012
Not Valid After : Sun Jan 12 17:27:44 2042
Fingerprint (SHA-256):
8A:86:6F:D1:B2:76:B5:7E:57:8E:92:1C:65:82:8A:2B:ED:58:E9:F2:F2:88:05:41:34:B7:F1:F4:BF:C9:CC:74
Fingerprint (SHA1): 1B:8E:EA:57:96:29:1A:C9:39:EA:B8:0A:81:1A:73:73:C0:93:79:67
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 1 G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\061\040\107\063
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\061\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\170\130\137\056\255\054\031\113\343\067\007\065\064\023
\050\265\226\324\145\223
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\140\060\202\003\110\240\003\002\001\002\002\024\170
\130\137\056\255\054\031\113\343\067\007\065\064\023\050\265\226
\324\145\223\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\110\061\013\060\011\006\003\125\004\006\023\002\102
\115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126
\141\144\151\163\040\114\151\155\151\164\145\144\061\036\060\034
\006\003\125\004\003\023\025\121\165\157\126\141\144\151\163\040
\122\157\157\164\040\103\101\040\061\040\107\063\060\036\027\015
\061\062\060\061\061\062\061\067\062\067\064\064\132\027\015\064
\062\060\061\061\062\061\067\062\067\064\064\132\060\110\061\013
\060\011\006\003\125\004\006\023\002\102\115\061\031\060\027\006
\003\125\004\012\023\020\121\165\157\126\141\144\151\163\040\114
\151\155\151\164\145\144\061\036\060\034\006\003\125\004\003\023
\025\121\165\157\126\141\144\151\163\040\122\157\157\164\040\103
\101\040\061\040\107\063\060\202\002\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202
\002\012\002\202\002\001\000\240\276\120\020\216\351\362\154\100
\264\004\234\205\271\061\312\334\055\344\021\251\004\074\033\125
\301\347\130\060\035\044\264\303\357\205\336\214\054\341\301\075
\337\202\346\117\255\107\207\154\354\133\111\301\112\325\273\217
\354\207\254\177\202\232\206\354\075\003\231\122\001\322\065\236
\254\332\360\123\311\146\074\324\254\002\001\332\044\323\073\250
\002\106\257\244\034\343\370\163\130\166\267\366\016\220\015\265
\360\317\314\372\371\306\114\345\303\206\060\012\215\027\176\065
\353\305\337\273\016\234\300\215\207\343\210\070\205\147\372\076
\307\253\340\023\234\005\030\230\317\223\365\261\222\264\374\043
\323\317\325\304\047\111\340\236\074\233\010\243\213\135\052\041
\340\374\071\252\123\332\175\176\317\032\011\123\274\135\005\004
\317\241\112\217\213\166\202\015\241\370\322\307\024\167\133\220
\066\007\201\233\076\006\372\122\136\143\305\246\000\376\245\351
\122\033\122\265\222\071\162\003\011\142\275\260\140\026\156\246
\335\045\302\003\146\335\363\004\321\100\342\116\213\206\364\157
\345\203\240\047\204\136\004\301\365\220\275\060\075\304\357\250
\151\274\070\233\244\244\226\321\142\332\151\300\001\226\256\313
\304\121\064\352\014\252\377\041\216\131\217\112\134\344\141\232

\247\322\351\052\170\215\121\075\072\025\356\242\131\216\251\134
\336\305\371\220\042\345\210\105\161\335\221\231\154\172\237\075
\075\230\174\136\366\276\026\150\240\136\256\013\043\374\132\017
\252\042\166\055\311\241\020\035\344\323\104\043\220\210\237\306
\052\346\327\365\232\263\130\036\057\060\211\010\033\124\242\265
\230\043\354\010\167\034\225\135\141\321\313\211\234\137\242\112
\221\232\357\041\252\111\026\010\250\275\141\050\061\311\164\255
\205\366\331\305\261\213\321\345\020\062\115\137\213\040\072\074
\111\037\063\205\131\015\333\313\011\165\103\151\163\373\153\161
\175\360\337\304\114\175\306\243\056\310\225\171\313\163\242\216
\116\115\044\373\136\344\004\276\162\033\246\047\055\111\132\231
\172\327\134\011\040\267\177\224\271\117\361\015\034\136\210\102
\033\021\267\347\221\333\236\154\364\152\337\214\006\230\003\255
\314\050\357\245\107\363\123\002\003\001\000\001\243\102\060\100
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\006\060\035\006\003\125\035\016\004\026\004\024\243\227\326\363
\136\242\020\341\253\105\237\074\027\144\074\356\001\160\234\314
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003
\202\002\001\000\030\372\133\165\374\076\172\307\137\167\307\312
\337\317\137\303\022\304\100\135\324\062\252\270\152\327\325\025
\025\106\230\043\245\346\220\133\030\231\114\343\255\102\243\202
\061\066\210\315\351\373\304\004\226\110\213\001\307\215\001\317
\133\063\006\226\106\146\164\035\117\355\301\266\271\264\015\141
\314\143\176\327\056\167\214\226\034\052\043\150\153\205\127\166
\160\063\023\376\341\117\246\043\167\030\372\032\214\350\275\145
\311\317\077\364\311\027\334\353\307\274\300\004\056\055\106\057
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\202\077\252\072\242\072\042\227\061\335\010\143\303\165\024\271
\140\050\055\133\150\340\026\251\146\202\043\121\365\353\123\330
\061\233\173\351\267\235\113\353\210\026\317\371\135\070\212\111
\060\217\355\361\353\031\364\167\032\061\030\115\147\124\154\057
\157\145\371\333\075\354\041\354\136\364\364\213\312\140\145\124
\321\161\144\364\371\246\243\201\063\066\063\161\360\244\170\137
\116\255\203\041\336\064\111\215\350\131\254\235\362\166\132\066
\362\023\364\257\340\011\307\141\052\154\367\340\235\256\273\206
\112\050\157\056\356\264\171\315\220\063\303\263\166\372\365\360
\154\235\001\220\372\236\220\366\234\162\317\107\332\303\037\344
\065\040\123\362\124\321\337\141\203\246\002\342\045\070\336\205
\062\055\136\163\220\122\135\102\304\316\075\113\341\371\031\204
\035\325\242\120\314\101\373\101\024\303\275\326\311\132\243\143
\146\002\200\275\005\072\073\107\234\354\000\046\114\365\210\121
\277\250\043\177\030\007\260\013\355\213\046\241\144\323\141\112
\353\134\237\336\263\257\147\003\263\037\335\155\135\151\150\151
\253\136\072\354\174\151\274\307\073\205\116\236\025\271\264\025
\117\303\225\172\130\327\311\154\351\154\271\363\051\143\136\264

\054\360\055\075\355\132\145\340\251\133\100\302\110\231\201\155
\236\037\006\052\074\022\264\213\017\233\242\044\360\246\215\326
\172\340\113\266\144\226\143\225\204\302\112\315\034\056\044\207
\063\140\345\303
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "QuoVadis Root CA 1 G3"
Issuer: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
Serial Number:78:58:5f:2e:ad:2c:19:4b:e3:37:07:35:34:13:28:b5:96:d4:65:93
Subject: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
Not Valid Before: Thu Jan 12 17:27:44 2012
Not Valid After : Sun Jan 12 17:27:44 2042
Fingerprint (SHA-256):
8A:86:6F:D1:B2:76:B5:7E:57:8E:92:1C:65:82:8A:2B:ED:58:E9:F2:F2:88:05:41:34:B7:F1:F4:BF:C9:CC:74
Fingerprint (SHA1): 1B:8E:EA:57:96:29:1A:C9:39:EA:B8:0A:81:1A:73:73:C0:93:79:67
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 1 G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\033\216\352\127\226\051\032\311\071\352\270\012\201\032\163\163
\300\223\171\147
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\244\274\133\077\376\067\232\372\144\360\342\372\005\075\013\253
END
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\061\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\170\130\137\056\255\054\031\113\343\067\007\065\064\023
\050\265\226\324\145\223
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "QuoVadis Root CA 2 G3"

```
#
# Issuer: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Serial Number:44:57:34:24:5b:81:89:9b:35:f2:ce:b8:2b:3b:5b:a7:26:f0:75:28
# Subject: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 18:59:32 2012
# Not Valid After : Sun Jan 12 18:59:32 2042
# Fingerprint (SHA-256):
8F:E4:FB:0A:F9:3A:4D:0D:67:DB:0B:EB:B2:3E:37:C7:1B:F3:25:DC:BC:DD:24:0E:A0:4D:AF:58:B4:7E:18:40
# Fingerprint (SHA1): 09:3C:61:F3:8B:8B:DC:7D:55:DF:75:38:02:05:00:E1:25:F5:C8:36
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2 G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\104\127\064\044\133\201\211\233\065\362\316\270\053\073
\133\247\046\360\165\050
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\140\060\202\003\110\240\003\002\001\002\002\024\104
\127\064\044\133\201\211\233\065\362\316\270\053\073\133\247\046
\360\165\050\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\110\061\013\060\011\006\003\125\004\006\023\002\102
\115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126
\141\144\151\163\040\114\151\155\151\164\145\144\061\036\060\034
\006\003\125\004\003\023\025\121\165\157\126\141\144\151\163\040
\122\157\157\164\040\103\101\040\062\040\107\063\060\036\027\015
\061\062\060\061\061\062\061\070\065\071\063\062\132\027\015\064
\062\060\061\061\062\061\070\065\071\063\062\132\060\110\061\013
\060\011\006\003\125\004\006\023\002\102\115\061\031\060\027\006
\003\125\004\012\023\020\121\165\157\126\141\144\151\163\040\114
\151\155\151\164\145\144\061\036\060\034\006\003\125\004\003\023
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\025\121\165\157\126\141\144\151\163\040\122\157\157\164\040\103
\101\040\062\040\107\063\060\202\002\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202
\002\012\002\202\002\001\000\241\256\045\262\001\030\334\127\210
\077\106\353\371\257\342\353\043\161\342\232\321\141\146\041\137
\252\257\047\121\345\156\033\026\324\055\175\120\260\123\167\275
\170\072\140\342\144\002\233\174\206\233\326\032\216\255\377\037
\025\177\325\225\036\022\313\346\024\204\004\301\337\066\263\026
\237\212\343\311\333\230\064\316\330\063\027\050\106\374\247\311
\360\322\264\325\115\011\162\111\371\362\207\343\251\332\175\241
\175\153\262\072\045\251\155\122\104\254\370\276\156\373\334\246
\163\221\220\141\246\003\024\040\362\347\207\243\210\255\255\240
\214\377\246\013\045\122\045\347\026\001\325\313\270\065\201\014
\243\073\360\341\341\374\132\135\316\200\161\155\370\111\253\076
\073\272\270\327\200\001\373\245\353\133\263\305\136\140\052\061
\240\257\067\350\040\072\237\250\062\054\014\314\011\035\323\236
\216\135\274\114\230\356\305\032\150\173\354\123\246\351\024\065
\243\337\315\200\237\014\110\373\034\364\361\277\112\270\372\325
\214\161\112\307\037\255\376\101\232\263\203\135\362\204\126\357
\245\127\103\316\051\255\214\253\125\277\304\373\133\001\335\043
\041\241\130\000\216\303\320\152\023\355\023\343\022\053\200\334
\147\346\225\262\315\036\042\156\052\370\101\324\362\312\024\007
\215\212\125\022\306\151\365\270\206\150\057\123\136\260\322\252
\041\301\230\346\060\343\147\125\307\233\156\254\031\250\125\246
\105\006\320\043\072\333\353\145\135\052\021\021\360\073\117\312
\155\364\064\304\161\344\377\000\132\366\134\256\043\140\205\163
\361\344\020\261\045\256\325\222\273\023\301\014\340\071\332\264
\071\127\265\253\065\252\162\041\073\203\065\347\061\337\172\041
\156\270\062\010\175\035\062\221\025\112\142\162\317\343\167\241
\274\325\021\033\166\001\147\010\340\101\013\303\353\025\156\370
\244\031\331\242\253\257\342\047\122\126\053\002\212\054\024\044
\371\277\102\002\277\046\310\306\217\340\156\070\175\123\055\345
\355\230\263\225\143\150\177\371\065\364\337\210\305\140\065\222
\300\174\151\034\141\225\026\320\353\336\013\257\076\004\020\105
\145\130\120\070\257\110\362\131\266\026\362\074\015\220\002\306
\160\056\001\255\074\025\327\002\003\001\000\001\243\102\060\100
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\006\060\035\006\003\125\035\016\004\026\004\024\355\347\157\166
\132\277\140\354\111\133\306\245\167\273\162\026\161\233\304\075
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\202\002\001\000\221\337\200\077\103\011\176\161\302\367\353\263
\210\217\341\121\262\274\075\165\371\050\135\310\274\231\233\173
\135\252\345\312\341\012\367\350\262\323\237\335\147\061\176\272
\001\252\307\152\101\073\220\324\010\134\262\140\152\220\360\310
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\026\212\130\114\110\017\350\204\141\352\074\162\246\167\344\102
\256\210\243\103\130\171\176\256\312\245\123\015\251\075\160\275

\040\031\141\244\154\070\374\103\062\341\301\107\377\370\354\361
\021\042\062\226\234\302\366\133\151\226\173\040\014\103\101\232
\133\366\131\031\210\336\125\210\067\121\013\170\134\012\036\243
\102\375\307\235\210\017\300\362\170\002\044\124\223\257\211\207
\210\311\112\200\035\352\320\156\076\141\056\066\273\065\016\047
\226\375\146\064\073\141\162\163\361\026\134\107\006\124\111\000
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\371\137\255\142\125\044\232\122\230\355\121\347\241\176\227\072
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\152\305\136\227\123\362\062\002\011\060\243\130\360\015\001\325
\162\306\261\174\151\173\303\365\066\105\314\141\156\136\114\224
\305\136\256\350\016\136\213\277\367\315\340\355\241\016\033\063
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\165\262\015\131\007\205\025\043\071\326\361\337\251\046\017\326
\110\307\263\246\042\365\063\067\132\225\107\237\173\272\030\025
\157\377\326\024\144\203\111\322\012\147\041\333\017\065\143\140
\050\042\343\261\225\203\315\205\246\335\057\017\347\147\122\156
\273\057\205\174\365\112\163\347\305\076\300\275\041\022\005\077
\374\267\003\111\002\133\310\045\346\342\124\070\365\171\207\214
\035\123\262\116\205\173\006\070\307\054\370\370\260\162\215\045
\345\167\122\364\003\034\110\246\120\137\210\040\060\156\362\202
\103\253\075\227\204\347\123\373\041\301\117\017\042\232\206\270
\131\052\366\107\075\031\210\055\350\205\341\236\354\205\010\152
\261\154\064\311\035\354\110\053\073\170\355\146\304\216\171\151
\203\336\177\214
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "QuoVadis Root CA 2 G3"
Issuer: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
Serial Number:44:57:34:24:5b:81:89:9b:35:f2:ce:b8:2b:3b:5b:a7:26:f0:75:28
Subject: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
Not Valid Before: Thu Jan 12 18:59:32 2012
Not Valid After : Sun Jan 12 18:59:32 2042
Fingerprint (SHA-256):
8F:E4:FB:0A:F9:3A:4D:0D:67:DB:0B:EB:B2:3E:37:C7:1B:F3:25:DC:BC:DD:24:0E:A0:4D:AF:58:B4:7E:18:40
Fingerprint (SHA1): 09:3C:61:F3:8B:8B:DC:7D:55:DF:75:38:02:05:00:E1:25:F5:C8:36
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2 G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\011\074\141\363\213\213\334\175\125\337\165\070\002\005\000\341
\045\365\310\066

```
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\257\014\206\156\277\100\055\177\013\076\022\120\272\022\075\006
END
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\104\127\064\044\133\201\211\233\065\362\316\270\053\073
\133\247\046\360\165\050
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "QuoVadis Root CA 3 G3"
#
# Issuer: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Serial Number:2e:f5:9b:02:28:a7:db:7a:ff:d5:a3:a9:ee:bd:03:a0:cf:12:6a:1d
# Subject: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 20:26:32 2012
# Not Valid After : Sun Jan 12 20:26:32 2042
# Fingerprint (SHA-256):
88:EF:81:DE:20:2E:B0:18:45:2E:43:F8:64:72:5C:EA:5F:BD:1F:C2:D9:D2:05:73:07:09:C5:D8:B8:69:0F:46
# Fingerprint (SHA1): 48:12:BD:92:3C:A8:C4:39:06:E7:30:6D:27:96:E6:A4:CF:22:2E:7D
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3 G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
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\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\056\365\233\002\050\247\333\172\377\325\243\251\356\275
\003\240\317\022\152\035
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\140\060\202\003\110\240\003\002\001\002\002\024\056
\365\233\002\050\247\333\172\377\325\243\251\356\275\003\240\317
\022\152\035\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\110\061\013\060\011\006\003\125\004\006\023\002\102
\115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126
\141\144\151\163\040\114\151\155\151\164\145\144\061\036\060\034
\006\003\125\004\003\023\025\121\165\157\126\141\144\151\163\040
\122\157\157\164\040\103\101\040\063\040\107\063\060\036\027\015
\061\062\060\061\061\062\062\060\062\066\063\062\132\027\015\064
\062\060\061\061\062\062\060\062\066\063\062\132\060\110\061\013
\060\011\006\003\125\004\006\023\002\102\115\061\031\060\027\006
\003\125\004\012\023\020\121\165\157\126\141\144\151\163\040\114
\151\155\151\164\145\144\061\036\060\034\006\003\125\004\003\023
\025\121\165\157\126\141\144\151\163\040\122\157\157\164\040\103
\101\040\063\040\107\063\060\202\002\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202
\002\012\002\202\002\001\000\263\313\016\020\147\216\352\024\227
\247\062\052\012\126\066\177\150\114\307\263\157\072\043\024\221
\377\031\177\245\312\254\356\263\166\235\172\351\213\033\253\153
\061\333\372\013\123\114\257\305\245\032\171\074\212\114\377\254
\337\045\336\116\331\202\062\013\104\336\312\333\214\254\243\156
\026\203\073\246\144\113\062\211\373\026\026\070\176\353\103\342
\323\164\112\302\142\012\163\012\335\111\263\127\322\260\012\205
\235\161\074\336\243\313\300\062\363\001\071\040\103\033\065\321
\123\263\261\356\305\223\151\202\076\026\265\050\106\241\336\352
\211\011\355\103\270\005\106\212\206\365\131\107\276\033\157\001
\041\020\271\375\251\322\050\312\020\071\011\312\023\066\317\234
\255\255\100\164\171\053\002\077\064\377\372\040\151\175\323\356
\141\365\272\263\347\060\320\067\043\206\162\141\105\051\110\131
\150\157\167\246\056\201\276\007\115\157\257\316\304\105\023\221
\024\160\006\217\037\237\370\207\151\261\016\357\303\211\031\353
\352\034\141\374\172\154\212\334\326\003\013\236\046\272\022\335
\324\124\071\253\046\243\063\352\165\201\332\055\315\017\117\344
\003\321\357\025\227\033\153\220\305\002\220\223\146\002\041\261
\107\336\213\232\112\200\271\125\217\265\242\057\300\326\063\147
\332\176\304\247\264\004\104\353\107\373\346\130\271\367\014\360
\173\053\261\300\160\051\303\100\142\055\073\110\151\334\043\074
\110\353\173\011\171\251\155\332\250\060\230\317\200\162\003\210
\246\133\106\256\162\171\174\010\003\041\145\256\267\341\034\245

\261\052\242\061\336\146\004\367\300\164\350\161\336\377\075\131
\314\226\046\022\213\205\225\127\032\253\153\165\013\104\075\021
\050\074\173\141\267\342\217\147\117\345\354\074\114\140\200\151
\127\070\036\001\133\215\125\350\307\337\300\314\167\043\064\111
\165\174\366\230\021\353\055\336\355\101\056\024\005\002\177\340
\376\040\353\065\347\021\254\042\316\127\075\336\311\060\155\020
\003\205\315\361\377\214\026\265\301\262\076\210\154\140\177\220
\117\225\367\366\055\255\001\071\007\004\372\165\200\175\277\111
\120\355\357\311\304\174\034\353\200\176\333\266\320\335\023\376
\311\323\234\327\262\227\251\002\003\001\000\001\243\102\060\100
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\006\060\035\006\003\125\035\016\004\026\004\024\306\027\320\274
\250\352\002\103\362\033\006\231\135\053\220\040\271\327\234\344
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003
\202\002\001\000\064\141\331\126\265\022\207\125\115\335\243\065
\061\106\273\244\007\162\274\137\141\142\350\245\373\013\067\261
\074\266\263\372\051\235\177\002\365\244\311\250\223\267\172\161
\050\151\217\163\341\122\220\332\325\276\072\345\267\166\152\126
\200\041\337\135\346\351\072\236\345\076\366\242\151\307\052\012
\260\030\107\334\040\160\175\122\243\076\131\174\301\272\311\310
\025\100\141\312\162\326\160\254\322\267\360\034\344\206\051\360
\316\357\150\143\320\265\040\212\025\141\232\176\206\230\264\311
\302\166\373\314\272\060\026\314\243\141\306\164\023\345\153\357
\243\025\352\003\376\023\213\144\344\323\301\322\350\204\373\111
\321\020\115\171\146\353\252\375\364\215\061\036\160\024\255\334
\336\147\023\114\201\025\141\274\267\331\221\167\161\031\201\140
\273\360\130\245\265\234\013\367\217\042\125\047\300\113\001\155
\073\231\015\324\035\233\143\147\057\320\356\015\312\146\274\224
\117\246\255\355\374\356\143\254\127\077\145\045\317\262\206\217
\320\010\377\270\166\024\156\336\345\047\354\253\170\265\123\271
\266\077\350\040\371\322\250\276\141\106\312\207\214\204\363\371
\361\240\150\233\042\036\201\046\233\020\004\221\161\300\006\037
\334\240\323\271\126\247\343\230\055\177\203\235\337\214\053\234
\062\216\062\224\360\001\074\042\052\237\103\302\056\303\230\071
\007\070\173\374\136\000\102\037\363\062\046\171\203\204\366\345
\360\301\121\022\300\013\036\004\043\014\124\245\114\057\111\305
\112\321\266\156\140\015\153\374\153\213\205\044\144\267\211\016
\253\045\107\133\074\317\176\111\275\307\351\012\306\332\367\176
\016\027\010\323\110\227\320\161\222\360\017\071\076\064\152\034
\175\330\362\042\256\273\151\364\063\264\246\110\125\321\017\016
\046\350\354\266\013\055\247\205\065\315\375\131\310\237\321\315
\076\132\051\064\271\075\204\316\261\145\324\131\221\221\126\165
\041\301\167\236\371\172\341\140\235\323\255\004\030\364\174\353
\136\223\217\123\112\042\051\370\110\053\076\115\206\254\133\177
\313\006\231\131\140\330\130\145\225\215\104\321\367\177\176\047
\177\175\256\200\365\007\114\266\076\234\161\124\231\004\113\375
\130\371\230\364

```
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "QuoVadis Root CA 3 G3"
# Issuer: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Serial Number:2e:f5:9b:02:28:a7:db:7a:ff:d5:a3:a9:ee:bd:03:a0:cf:12:6a:1d
# Subject: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 20:26:32 2012
# Not Valid After : Sun Jan 12 20:26:32 2042
# Fingerprint (SHA-256):
88:EF:81:DE:20:2E:B0:18:45:2E:43:F8:64:72:5C:EA:5F:BD:1F:C2:D9:D2:05:73:07:09:C5:D8:B8:69:0F:46
# Fingerprint (SHA1): 48:12:BD:92:3C:A8:C4:39:06:E7:30:6D:27:96:E6:A4:CF:22:2E:7D
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3 G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\110\022\275\222\074\250\304\071\006\347\060\155\047\226\346\244
\317\042\056\175
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\337\175\271\255\124\157\150\241\337\211\127\003\227\103\260\327
END
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\056\365\233\002\050\247\333\172\377\325\243\251\356\275
\003\240\317\022\152\035
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "DigiCert Assured ID Root G2"
#
# Issuer: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:0b:93:1c:3a:d6:39:67:ea:67:23:bf:c3:af:9a:f4:4b
# Subject: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
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Not Valid Before: Thu Aug 01 12:00:00 2013
Not Valid After : Fri Jan 15 12:00:00 2038
Fingerprint (SHA-256):
7D:05:EB:B6:82:33:9F:8C:94:51:EE:09:4E:EB:FE:FA:79:53:A1:14:ED:B2:F4:49:49:45:2F:AB:7D:2F:C1:85
Fingerprint (SHA1): A1:4B:48:D9:43:EE:0A:0E:40:90:4F:3C:E0:A4:C0:91:93:51:5D:3F
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\013\223\034\072\326\071\147\352\147\043\277\303\257\232
\364\113
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\226\060\202\002\176\240\003\002\001\002\002\020\013
\223\034\072\326\071\147\352\147\043\277\303\257\232\364\113\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\145
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060
\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164
\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167
\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061
\044\060\042\006\003\125\004\003\023\033\104\151\147\151\103\145
\162\164\040\101\163\163\165\162\145\144\040\111\104\040\122\157
\157\164\040\107\062\060\036\027\015\061\063\060\070\060\061\061
\062\060\060\060\060\132\027\015\063\070\060\061\061\065\061\062
\060\060\060\060\132\060\145\061\013\060\011\006\003\125\004\006
\023\002\125\123\061\025\060\023\006\003\125\004\012\023\014\104

\151\147\151\103\145\162\164\040\111\156\143\061\031\060\027\006
\003\125\004\013\023\020\167\167\167\056\144\151\147\151\143\145
\162\164\056\143\157\155\061\044\060\042\006\003\125\004\003\023
\033\104\151\147\151\103\145\162\164\040\101\163\163\165\162\145
\144\040\111\104\040\122\157\157\164\040\107\062\060\202\001\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\001\017\000\060\202\001\012\002\202\001\001\000\331\347\050
\057\122\077\066\162\111\210\223\064\363\370\152\036\061\124\200
\237\255\124\101\265\107\337\226\250\324\257\200\055\271\012\317
\165\375\211\245\175\044\372\343\042\014\053\274\225\027\013\063
\277\031\115\101\006\220\000\275\014\115\020\376\007\265\347\034
\156\042\125\061\145\227\275\323\027\322\036\142\363\333\352\154
\120\214\077\204\014\226\317\267\313\003\340\312\155\241\024\114
\033\211\335\355\000\260\122\174\257\221\154\261\070\023\321\351
\022\010\300\000\260\034\053\021\332\167\160\066\233\256\316\171
\207\334\202\160\346\011\164\160\125\151\257\243\150\237\277\335
\266\171\263\362\235\160\051\125\364\253\377\225\141\363\311\100
\157\035\321\276\223\273\323\210\052\273\235\277\162\132\126\161
\073\077\324\363\321\012\376\050\357\243\356\331\231\257\003\323
\217\140\267\362\222\241\261\275\211\211\037\060\315\303\246\056
\142\063\256\026\002\167\104\132\347\201\012\074\247\104\056\171
\270\077\004\274\134\240\207\341\033\257\121\216\315\354\054\372
\370\376\155\360\072\174\252\213\344\147\225\061\215\002\003\001
\000\001\243\102\060\100\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001
\377\004\004\003\002\001\206\060\035\006\003\125\035\016\004\026
\004\024\316\303\112\271\231\125\362\270\333\140\277\251\176\275
\126\265\227\066\247\326\060\015\006\011\052\206\110\206\367\015
\001\001\013\005\000\003\202\001\001\000\312\245\125\214\343\310
\101\156\151\047\247\165\021\357\074\206\066\157\322\235\306\170
\070\035\151\226\242\222\151\056\070\154\233\175\004\324\211\245
\261\061\067\212\311\041\314\253\154\315\213\034\232\326\277\110
\322\062\146\301\212\300\363\057\072\357\300\343\324\221\206\321
\120\343\003\333\163\167\157\112\071\123\355\336\046\307\265\175
\257\053\102\321\165\142\343\112\053\002\307\120\113\340\151\342
\226\154\016\104\146\020\104\217\255\005\353\370\171\254\246\033
\350\067\064\235\123\311\141\252\242\122\257\112\160\026\206\302
\072\310\261\023\160\066\330\317\356\364\012\064\325\133\114\375
\007\234\242\272\331\001\162\134\363\115\301\335\016\261\034\015
\304\143\276\255\364\024\373\211\354\242\101\016\114\314\310\127
\100\320\156\003\252\315\014\216\211\231\231\154\360\074\060\257
\070\337\157\274\243\276\051\040\047\253\164\377\023\042\170\336
\227\122\125\036\203\265\124\040\003\356\256\300\117\126\336\067
\314\303\177\252\004\047\273\323\167\270\142\333\027\174\234\050
\042\023\163\154\317\046\365\212\051\347
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "DigiCert Assured ID Root G2"
Issuer: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
Serial Number:0b:93:1c:3a:d6:39:67:ea:67:23:bf:c3:af:9a:f4:4b
Subject: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
Not Valid Before: Thu Aug 01 12:00:00 2013
Not Valid After : Fri Jan 15 12:00:00 2038
Fingerprint (SHA-256):
7D:05:EB:B6:82:33:9F:8C:94:51:EE:09:4E:EB:FE:FA:79:53:A1:14:ED:B2:F4:49:49:45:2F:AB:7D:2F:C1:85
Fingerprint (SHA1): A1:4B:48:D9:43:EE:0A:0E:40:90:4F:3C:E0:A4:C0:91:93:51:5D:3F
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\241\113\110\331\103\356\012\016\100\220\117\074\340\244\300\221
\223\121\135\077
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\222\070\271\370\143\044\202\145\054\127\063\346\376\201\217\235
END
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\013\223\034\072\326\071\147\352\147\043\277\303\257\232
\364\113
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "DigiCert Assured ID Root G3"
#
Issuer: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
Serial Number:0b:a1:5a:fa:1d:df:a0:b5:49:44:af:cd:24:a0:6c:ec
Subject: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
Not Valid Before: Thu Aug 01 12:00:00 2013

Not Valid After : Fri Jan 15 12:00:00 2038
Fingerprint (SHA-256):
7E:37:CB:8B:4C:47:09:0C:AB:36:55:1B:A6:F4:5D:B8:40:68:0F:BA:16:6A:95:2D:B1:00:71:7F:43:05:3F:C2
Fingerprint (SHA1): F5:17:A2:4F:9A:48:C6:C9:F8:A2:00:26:9F:DC:0F:48:2C:AB:30:89
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\013\241\132\372\035\337\240\265\111\104\257\315\044\240
\154\354
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\106\060\202\001\315\240\003\002\001\002\002\020\013
\241\132\372\035\337\240\265\111\104\257\315\044\240\154\354\060
\012\006\010\052\206\110\316\075\004\003\003\060\145\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\025\060\023\006\003
\125\004\012\023\014\104\151\147\151\103\145\162\164\040\111\156
\143\061\031\060\027\006\003\125\004\013\023\020\167\167\167\056
\144\151\147\151\143\145\162\164\056\143\157\155\061\044\060\042
\006\003\125\004\003\023\033\104\151\147\151\103\145\162\164\040
\101\163\163\165\162\145\144\040\111\104\040\122\157\157\164\040
\107\063\060\036\027\015\061\063\060\070\060\061\061\062\060\060
\060\060\132\027\015\063\070\060\061\061\065\061\062\060\060\060
\060\132\060\145\061\013\060\011\006\003\125\004\006\023\002\125
\123\061\025\060\023\006\003\125\004\012\023\014\104\151\147\151
\103\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004

\013\023\020\167\167\167\056\144\151\147\151\143\145\162\164\056
\143\157\155\061\044\060\042\006\003\125\004\003\023\033\104\151
\147\151\103\145\162\164\040\101\163\163\165\162\145\144\040\111
\104\040\122\157\157\164\040\107\063\060\166\060\020\006\007\052
\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000
\004\031\347\274\254\104\145\355\315\270\077\130\373\215\261\127
\251\104\055\005\025\362\357\013\377\020\164\237\265\142\122\137
\146\176\037\345\334\033\105\171\013\314\306\123\012\235\215\135
\002\331\251\131\336\002\132\366\225\052\016\215\070\112\212\111
\306\274\306\003\070\007\137\125\332\176\011\156\342\177\136\320
\105\040\017\131\166\020\326\240\044\360\055\336\066\362\154\051
\071\243\102\060\100\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\206\060\035\006\003\125\035\016\004\026\004
\024\313\320\275\251\341\230\005\121\241\115\067\242\203\171\316
\215\035\052\344\204\060\012\006\010\052\206\110\316\075\004\003
\003\003\147\000\060\144\002\060\045\244\201\105\002\153\022\113
\165\164\117\310\043\343\160\362\165\162\336\174\211\360\317\221
\162\141\236\136\020\222\131\126\271\203\307\020\347\070\351\130
\046\066\175\325\344\064\206\071\002\060\174\066\123\360\060\345
\142\143\072\231\342\266\243\073\233\064\372\036\332\020\222\161
\136\221\023\247\335\244\156\222\314\062\326\365\041\146\307\057
\352\226\143\152\145\105\222\225\001\264
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "DigiCert Assured ID Root G3"
Issuer: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
Serial Number:0b:a1:5a:fa:1d:df:a0:b5:49:44:af:cd:24:a0:6c:ec
Subject: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
Not Valid Before: Thu Aug 01 12:00:00 2013
Not Valid After : Fri Jan 15 12:00:00 2038
Fingerprint (SHA-256):
7E:37:CB:8B:4C:47:09:0C:AB:36:55:1B:A6:F4:5D:B8:40:68:0F:BA:16:6A:95:2D:B1:00:71:7F:43:05:3F:C2
Fingerprint (SHA1): F5:17:A2:4F:9A:48:C6:C9:F8:A2:00:26:9F:DC:0F:48:2C:AB:30:89
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\365\027\242\117\232\110\306\311\370\242\000\046\237\334\017\110
\054\253\060\211
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\174\177\145\061\014\201\337\215\272\076\231\342\134\255\156\373

```
END
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\013\241\132\372\035\337\240\265\111\104\257\315\044\240
\154\354
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "DigiCert Global Root G2"
#
# Issuer: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:03:3a:f1:e6:a7:11:a9:a0:bb:28:64:b1:1d:09:fa:e5
# Subject: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
CB:3C:CB:B7:60:31:E5:E0:13:8F:8D:D3:9A:23:F9:DE:47:FF:C3:5E:43:C1:14:4C:EA:27:D4:6A:5A:B1:CB:5F
# Fingerprint (SHA1): DF:3C:24:F9:BF:D6:66:76:1B:26:80:73:FE:06:D1:CC:8D:4F:82:A4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
```

\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\003\072\361\346\247\021\251\240\273\050\144\261\035\011
\372\345
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\216\060\202\002\166\240\003\002\001\002\002\020\003
\072\361\346\247\021\251\240\273\050\144\261\035\011\372\345\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\141
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060
\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164
\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167
\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061
\040\060\036\006\003\125\004\003\023\027\104\151\147\151\103\145
\162\164\040\107\154\157\142\141\154\040\122\157\157\164\040\107
\062\060\036\027\015\061\063\060\070\060\061\061\062\060\060\060
\060\132\027\015\063\070\060\061\061\065\061\062\060\060\060\060
\132\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103
\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013
\023\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143
\157\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147
\151\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157
\164\040\107\062\060\202\001\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012
\002\202\001\001\000\273\067\315\064\334\173\153\311\262\150\220
\255\112\165\377\106\272\041\012\010\215\365\031\124\311\373\210
\333\363\256\362\072\211\221\074\172\346\253\006\032\153\317\254
\055\350\136\011\044\104\272\142\232\176\326\243\250\176\340\124
\165\040\005\254\120\267\234\143\032\154\060\334\332\037\031\261
\327\036\336\375\327\340\313\224\203\067\256\354\037\103\116\335
\173\054\322\275\056\245\057\344\251\270\255\072\324\231\244\266
\045\351\233\153\000\140\222\140\377\117\041\111\030\367\147\220
\253\141\006\234\217\362\272\351\264\351\222\062\153\265\363\127
\350\135\033\315\214\035\253\225\004\225\111\363\065\055\226\343
\111\155\335\167\343\373\111\113\264\254\125\007\251\217\225\263
\264\043\273\114\155\105\360\366\251\262\225\060\264\375\114\125
\214\047\112\127\024\174\202\235\315\163\222\323\026\112\006\014
\214\120\321\217\036\011\276\027\241\346\041\312\375\203\345\020
\274\203\245\012\304\147\050\366\163\024\024\075\106\166\303\207
\024\211\041\064\115\257\017\105\014\246\111\241\272\273\234\305
\261\063\203\051\205\002\003\001\000\001\243\102\060\100\060\017

\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060
\035\006\003\125\035\016\004\026\004\024\116\042\124\040\030\225
\346\343\156\346\017\372\372\271\022\355\006\027\217\071\060\015
\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202\001
\001\000\140\147\050\224\157\016\110\143\353\061\335\352\147\030
\325\211\175\074\305\213\112\177\351\276\333\053\027\337\260\137
\163\167\052\062\023\071\201\147\102\204\043\362\105\147\065\354
\210\277\370\217\260\141\014\064\244\256\040\114\204\306\333\370
\065\341\166\331\337\246\102\273\307\104\010\206\177\066\164\044
\132\332\154\015\024\131\065\275\362\111\335\266\037\311\263\015
\107\052\075\231\057\273\134\273\265\324\040\341\231\137\123\106
\025\333\150\233\360\363\060\325\076\061\342\215\204\236\343\212
\332\332\226\076\065\023\245\137\360\371\160\120\160\107\101\021
\127\031\116\300\217\256\006\304\225\023\027\057\033\045\237\165
\362\261\216\231\241\157\023\261\101\161\376\210\052\310\117\020
\040\125\327\363\024\105\345\340\104\364\352\207\225\062\223\016
\376\123\106\372\054\235\377\213\042\271\113\331\011\105\244\336
\244\270\232\130\335\033\175\122\237\216\131\103\210\201\244\236
\046\325\157\255\335\015\306\067\175\355\003\222\033\345\167\137
\166\356\074\215\304\135\126\133\242\331\146\156\263\065\067\345
\062\266
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "DigiCert Global Root G2"
Issuer: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
Serial Number:03:3a:f1:e6:a7:11:a9:a0:bb:28:64:b1:1d:09:fa:e5
Subject: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
Not Valid Before: Thu Aug 01 12:00:00 2013
Not Valid After : Fri Jan 15 12:00:00 2038
Fingerprint (SHA-256):
CB:3C:CB:B7:60:31:E5:E0:13:8F:8D:D3:9A:23:F9:DE:47:FF:C3:5E:43:C1:14:4C:EA:27:D4:6A:5A:B1:CB:5F
Fingerprint (SHA1): DF:3C:24:F9:BF:D6:66:76:1B:26:80:73:FE:06:D1:CC:8D:4F:82:A4
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\337\074\044\371\277\326\146\166\033\046\200\163\376\006\321\314
\215\117\202\244
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\344\246\212\310\124\254\122\102\106\012\375\162\110\033\052\104
END

CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\003\072\361\346\247\021\251\240\273\050\144\261\035\011
\372\345
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "DigiCert Global Root G3"
#
Issuer: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
Serial Number:05:55:56:bc:f2:5e:a4:35:35:c3:a4:0f:d5:ab:45:72
Subject: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
Not Valid Before: Thu Aug 01 12:00:00 2013
Not Valid After : Fri Jan 15 12:00:00 2038
Fingerprint (SHA-256):
31:AD:66:48:F8:10:41:38:C7:38:F3:9E:A4:32:01:33:39:3E:3A:18:CC:02:29:6E:F9:7C:2A:C9:EF:67:31:D0
Fingerprint (SHA1): 7E:04:DE:89:6A:3E:66:6D:00:E6:87:D3:3F:FA:D9:3B:E8:3D:34:9E
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145

\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\005\125\126\274\362\136\244\065\065\303\244\017\325\253
\105\162
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\077\060\202\001\305\240\003\002\001\002\002\020\005
\125\126\274\362\136\244\065\065\303\244\017\325\253\105\162\060
\012\006\010\052\206\110\316\075\004\003\003\060\141\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\025\060\023\006\003
\125\004\012\023\014\104\151\147\151\103\145\162\164\040\111\156
\143\061\031\060\027\006\003\125\004\013\023\020\167\167\167\056
\144\151\147\151\143\145\162\164\056\143\157\155\061\040\060\036
\006\003\125\004\003\023\027\104\151\147\151\103\145\162\164\040
\107\154\157\142\141\154\040\122\157\157\164\040\107\063\060\036
\027\015\061\063\060\070\060\061\061\062\060\060\060\060\132\027
\015\063\070\060\061\061\065\061\062\060\060\060\060\132\060\141
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060
\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164
\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167
\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061
\040\060\036\006\003\125\004\003\023\027\104\151\147\151\103\145
\162\164\040\107\154\157\142\141\154\040\122\157\157\164\040\107
\063\060\166\060\020\006\007\052\206\110\316\075\002\001\006\005
\053\201\004\000\042\003\142\000\004\335\247\331\273\212\270\013
\373\013\177\041\322\360\276\276\163\363\063\135\032\274\064\352
\336\306\233\274\320\225\366\360\314\320\013\272\141\133\121\106
\176\236\055\237\356\216\143\014\027\354\007\160\365\317\204\056
\100\203\234\350\077\101\155\073\255\323\244\024\131\066\170\235
\003\103\356\020\023\154\162\336\256\210\247\241\153\265\103\316
\147\334\043\377\003\034\243\342\076\243\102\060\100\060\017\006
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060\035
\006\003\125\035\016\004\026\004\024\263\333\110\244\371\241\305
\330\256\066\101\314\021\143\151\142\051\274\113\306\060\012\006
\010\052\206\110\316\075\004\003\003\003\150\000\060\145\002\061
\000\255\274\362\154\077\022\112\321\055\071\303\012\011\227\163
\364\210\066\214\210\047\273\346\210\215\120\205\247\143\371\236
\062\336\146\223\017\361\314\261\011\217\335\154\253\372\153\177
\240\002\060\071\146\133\302\144\215\270\236\120\334\250\325\111
\242\355\307\334\321\111\177\027\001\270\310\206\217\116\214\210
\053\250\232\251\212\305\321\000\275\370\124\342\232\345\133\174
\263\047\027

```
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "DigiCert Global Root G3"
# Issuer: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:05:55:56:bc:f2:5e:a4:35:35:c3:a4:0f:d5:ab:45:72
# Subject: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
31:AD:66:48:F8:10:41:38:C7:38:F3:9E:A4:32:01:33:39:3E:3A:18:CC:02:29:6E:F9:7C:2A:C9:EF:67:31:D0
# Fingerprint (SHA1): 7E:04:DE:89:6A:3E:66:6D:00:E6:87:D3:3F:FA:D9:3B:E8:3D:34:9E
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\176\004\336\211\152\076\146\155\000\346\207\323\077\372\331\073
\350\075\064\236
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\365\135\244\120\245\373\050\176\036\017\015\314\226\127\126\312
END
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\005\125\126\274\362\136\244\065\065\303\244\017\325\253
\105\162
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "DigiCert Trusted Root G4"
#
# Issuer: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
```

Serial Number:05:9b:1b:57:9e:8e:21:32:e2:39:07:bd:a7:77:75:5c
Subject: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
Not Valid Before: Thu Aug 01 12:00:00 2013
Not Valid After : Fri Jan 15 12:00:00 2038
Fingerprint (SHA-256):
55:2F:7B:DC:F1:A7:AF:9E:6C:E6:72:01:7F:4F:12:AB:F7:72:40:C7:8E:76:1A:C2:03:D1:D9:D2:0A:C8:99:88
Fingerprint (SHA1): DD:FB:16:CD:49:31:C9:73:A2:03:7D:3F:C8:3A:4D:7D:77:5D:05:E4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Trusted Root G4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\041\060\037\006\003\125\004\003\023\030\104\151\147\151
\103\145\162\164\040\124\162\165\163\164\145\144\040\122\157\157
\164\040\107\064
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\041\060\037\006\003\125\004\003\023\030\104\151\147\151
\103\145\162\164\040\124\162\165\163\164\145\144\040\122\157\157
\164\040\107\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\005\233\033\127\236\216\041\062\342\071\007\275\247\167
\165\134
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\220\060\202\003\170\240\003\002\001\002\002\020\005
\233\033\127\236\216\041\062\342\071\007\275\247\167\165\134\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\142
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060
\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164
\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167
\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061
\041\060\037\006\003\125\004\003\023\030\104\151\147\151\103\145
\162\164\040\124\162\165\163\164\145\144\040\122\157\157\164\040
\107\064\060\036\027\015\061\063\060\070\060\061\061\062\060\060
\060\060\132\027\015\063\070\060\061\061\065\061\062\060\060\060

\060\132\060\142\061\013\060\011\006\003\125\004\006\023\002\125
\123\061\025\060\023\006\003\125\004\012\023\014\104\151\147\151
\103\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004
\013\023\020\167\167\167\056\144\151\147\151\143\145\162\164\056
\143\157\155\061\041\060\037\006\003\125\004\003\023\030\104\151
\147\151\103\145\162\164\040\124\162\165\163\164\145\144\040\122
\157\157\164\040\107\064\060\202\002\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202
\002\012\002\202\002\001\000\277\346\220\163\150\336\273\344\135
\112\074\060\042\060\151\063\354\302\247\045\056\311\041\075\362
\212\330\131\302\341\051\247\075\130\253\166\232\315\256\173\033
\204\015\304\060\037\363\033\244\070\026\353\126\306\227\155\035
\253\262\171\362\312\021\322\344\137\326\005\074\122\017\122\037
\306\236\025\245\176\276\237\251\127\026\131\125\162\257\150\223
\160\302\262\272\165\231\152\163\062\224\321\020\104\020\056\337
\202\363\007\204\346\164\073\155\161\342\055\014\033\356\040\325
\311\040\035\143\051\055\316\354\136\116\310\223\370\041\141\233
\064\353\005\306\136\354\133\032\274\353\311\317\315\254\064\100
\137\261\172\146\356\167\310\110\250\146\127\127\237\124\130\216
\014\053\267\117\247\060\331\126\356\312\173\135\343\255\311\117
\136\345\065\347\061\313\332\223\136\334\216\217\200\332\266\221
\230\100\220\171\303\170\307\266\261\304\265\152\030\070\003\020
\215\330\324\067\244\056\005\175\210\365\202\076\020\221\160\253
\125\202\101\062\327\333\004\163\052\156\221\001\174\041\114\324
\274\256\033\003\165\135\170\146\331\072\061\104\232\063\100\277
\010\327\132\111\244\302\346\251\240\147\335\244\047\274\241\117
\071\265\021\130\027\367\044\134\106\217\144\367\301\151\210\166
\230\166\075\131\135\102\166\207\211\227\151\172\110\360\340\242
\022\033\146\232\164\312\336\113\036\347\016\143\256\346\324\357
\222\222\072\236\075\334\000\344\105\045\211\266\232\104\031\053
\176\300\224\264\322\141\155\353\063\331\305\337\113\004\000\314
\175\034\225\303\217\367\041\262\262\021\267\273\177\362\325\214
\160\054\101\140\252\261\143\030\104\225\032\166\142\176\366\200
\260\373\350\144\246\063\321\211\007\341\275\267\346\103\244\030
\270\246\167\001\341\017\224\014\041\035\262\124\051\045\211\154
\345\016\122\121\107\164\276\046\254\266\101\165\336\172\254\137
\215\077\311\274\323\101\021\022\133\345\020\120\353\061\305\312
\162\026\042\011\337\174\114\165\077\143\354\041\137\304\040\121
\153\157\261\253\206\213\117\302\326\105\137\235\040\374\241\036
\305\300\217\242\261\176\012\046\231\365\344\151\057\230\035\055
\365\331\251\262\035\345\033\002\003\001\000\001\243\102\060\100
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\206\060\035\006\003\125\035\016\004\026\004\024\354\327\343\202
\322\161\135\144\114\337\056\147\077\347\272\230\256\034\017\117
\060\015\006\011\052\206\110\206\367\015\001\001\014\005\000\003
\202\002\001\000\273\141\331\175\251\154\276\027\304\221\033\303
\241\242\000\215\343\144\150\017\126\317\167\256\160\371\375\232

\112\231\271\311\170\134\014\014\137\344\346\024\051\126\013\066
\111\135\104\143\340\255\234\226\030\146\033\043\015\075\171\351
\155\153\326\124\370\322\074\301\103\100\256\035\120\365\122\374
\220\073\273\230\231\151\153\307\301\247\250\150\244\047\334\235
\371\047\256\060\205\271\366\147\115\072\076\217\131\071\042\123
\104\353\310\135\003\312\355\120\172\175\142\041\012\200\310\163
\146\321\240\005\140\137\350\245\264\247\257\250\367\155\065\234
\174\132\212\326\242\070\231\363\170\213\364\115\322\040\013\336
\004\356\214\233\107\201\162\015\300\024\062\357\060\131\056\256
\340\161\362\126\344\152\227\157\222\120\155\226\215\150\172\232
\262\066\024\172\006\362\044\271\011\021\120\327\010\261\270\211
\172\204\043\141\102\051\345\243\315\242\040\101\327\321\234\144
\331\352\046\241\213\024\327\114\031\262\120\101\161\075\077\115
\160\043\206\014\112\334\201\322\314\062\224\204\015\010\011\227
\034\117\300\356\153\040\164\060\322\340\071\064\020\205\041\025
\001\010\350\125\062\336\161\111\331\050\027\120\115\346\276\115
\321\165\254\320\312\373\101\270\103\245\252\323\303\005\104\117
\054\066\233\342\372\342\105\270\043\123\154\006\157\147\125\177
\106\265\114\077\156\050\132\171\046\322\244\250\142\227\322\036
\342\355\112\213\274\033\375\107\112\015\337\147\146\176\262\133
\101\320\073\344\364\073\364\004\143\351\357\302\124\000\121\240
\212\052\311\316\170\314\325\352\207\004\030\263\316\257\111\210
\257\363\222\231\266\263\346\141\017\322\205\000\347\120\032\344
\033\225\235\031\241\271\234\261\233\261\000\036\357\320\017\117
\102\154\311\012\274\356\103\372\072\161\245\310\115\046\245\065
\375\211\135\274\205\142\035\062\322\240\053\124\355\232\127\301
\333\372\020\317\031\267\213\112\033\217\001\266\047\225\123\350
\266\211\155\133\274\150\324\043\350\213\121\242\126\371\360\246
\200\240\326\036\263\274\017\017\123\165\051\252\352\023\167\344
\336\214\201\041\255\007\020\107\021\255\207\075\007\321\165\274
\317\363\146\176
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "DigiCert Trusted Root G4"
Issuer: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
Serial Number:05:9b:1b:57:9e:8e:21:32:e2:39:07:bd:a7:77:75:5c
Subject: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
Not Valid Before: Thu Aug 01 12:00:00 2013
Not Valid After : Fri Jan 15 12:00:00 2038
Fingerprint (SHA-256):
55:2F:7B:DC:F1:A7:AF:9E:6C:E6:72:01:7F:4F:12:AB:F7:72:40:C7:8E:76:1A:C2:03:D1:D9:D2:0A:C8:99:88
Fingerprint (SHA1): DD:FB:16:CD:49:31:C9:73:A2:03:7D:3F:C8:3A:4D:7D:77:5D:05:E4
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Trusted Root G4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\335\373\026\315\111\061\311\163\242\003\175\077\310\072\115\175
\167\135\005\344
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\170\362\374\252\140\037\057\264\353\311\067\272\123\056\165\111
END
CKA_ISSUER MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\041\060\037\006\003\125\004\003\023\030\104\151\147\151
\103\145\162\164\040\124\162\165\163\164\145\144\040\122\157\157
\164\040\107\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\005\233\033\127\236\216\041\062\342\071\007\275\247\167
\165\134
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "COMODO RSA Certification Authority"
#
Issuer: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
Serial Number:4c:aa:f9:ca:db:63:6f:e0:1f:f7:4e:d8:5b:03:86:9d
Subject: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
Not Valid Before: Tue Jan 19 00:00:00 2010
Not Valid After : Mon Jan 18 23:59:59 2038
Fingerprint (SHA-256):
52:F0:E1:C4:E5:8E:C6:29:29:1B:60:31:7F:07:46:71:B8:5D:7E:A8:0D:5B:07:27:34:63:53:4B:32:B4:02:34
Fingerprint (SHA1): AF:E5:D2:44:A8:D1:19:42:30:FF:47:9F:E2:F8:97:BB:CD:7A:8C:B4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO RSA Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102

\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\042\103\117\115\117\104\117\040\122\123\101
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\042\103\117\115\117\104\117\040\122\123\101
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\114\252\371\312\333\143\157\340\037\367\116\330\133\003
\206\235
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\330\060\202\003\300\240\003\002\001\002\002\020\114
\252\371\312\333\143\157\340\037\367\116\330\133\003\206\235\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\201
\205\061\013\060\011\006\003\125\004\006\023\002\107\102\061\033
\060\031\006\003\125\004\010\023\022\107\162\145\141\164\145\162
\040\115\141\156\143\150\145\163\164\145\162\061\020\060\016\006
\003\125\004\007\023\007\123\141\154\146\157\162\144\061\032\060
\030\006\003\125\004\012\023\021\103\117\115\117\104\117\040\103
\101\040\114\151\155\151\164\145\144\061\053\060\051\006\003\125
\004\003\023\042\103\117\115\117\104\117\040\122\123\101\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\060\036\027\015\061\060\060\061\061\071
\060\060\060\060\060\060\132\027\015\063\070\060\061\061\070\062
\063\065\071\065\071\132\060\201\205\061\013\060\011\006\003\125
\004\006\023\002\107\102\061\033\060\031\006\003\125\004\010\023
\022\107\162\145\141\164\145\162\040\115\141\156\143\150\145\163
\164\145\162\061\020\060\016\006\003\125\004\007\023\007\123\141
\154\146\157\162\144\061\032\060\030\006\003\125\004\012\023\021
\103\117\115\117\104\117\040\103\101\040\114\151\155\151\164\145
\144\061\053\060\051\006\003\125\004\003\023\042\103\117\115\117
\104\117\040\122\123\101\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\060\202

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\231\053\067\243\175\043\160\000\161\274\123\337\304\372\052\022
\217\113\177\020\126\275\237\160\162\267\141\177\311\113\017\027
\247\075\343\260\004\141\356\377\021\227\307\364\206\076\012\372
\076\134\371\223\346\064\172\331\024\153\347\234\263\205\240\202
\172\166\257\161\220\327\354\375\015\372\234\154\372\337\260\202
\364\024\176\371\276\304\246\057\117\177\231\177\265\374\147\103
\162\275\014\000\326\211\353\153\054\323\355\217\230\034\024\253
\176\345\343\156\374\330\250\344\222\044\332\103\153\142\270\125
\375\352\301\274\154\266\213\363\016\215\232\344\233\154\151\231
\370\170\110\060\105\325\255\341\015\074\105\140\374\062\226\121
\047\274\147\303\312\056\266\153\352\106\307\307\040\240\261\037
\145\336\110\010\272\244\116\251\362\203\106\067\204\353\350\314
\201\110\103\147\116\162\052\233\134\275\114\033\050\212\134\042
\173\264\253\230\331\356\340\121\203\303\011\106\116\155\076\231
\372\225\027\332\174\063\127\101\074\215\121\355\013\266\134\257
\054\143\032\337\127\310\077\274\351\135\304\233\257\105\231\342
\243\132\044\264\272\251\126\075\317\157\252\377\111\130\276\360
\250\377\364\270\255\351\067\373\272\270\364\013\072\371\350\103
\102\036\211\330\204\313\023\361\331\273\341\211\140\270\214\050
\126\254\024\035\234\012\347\161\353\317\016\335\075\251\226\241
\110\275\074\367\257\265\015\042\114\300\021\201\354\126\073\366
\323\242\342\133\267\262\004\042\122\225\200\223\151\350\216\114
\145\361\221\003\055\160\164\002\352\213\147\025\051\151\122\002
\273\327\337\120\152\125\106\277\240\243\050\141\177\160\320\303
\242\252\054\041\252\107\316\050\234\006\105\166\277\202\030\047
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\026\206\340\330\377\100\335\373\320\102\210\177\243\063\072\056
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\162\274\127\112\322\113\235\273\020\374\260\114\101\345\355\035
\075\136\050\235\234\314\277\263\121\332\247\107\345\204\123\002
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\070\230\354\331\062\062\324\060\016\006\003\125\035\017\001\001
\377\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001
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\204\267\256\121\273\154\262\115\101\024\000\223\114\234\313\345
\300\124\317\240\045\216\002\371\375\260\242\015\365\040\230\074
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\162\261\275\031\104\154\141\065\242\232\264\026\022\151\132\214
\341\327\076\244\032\350\057\003\364\256\141\035\020\033\052\244
\213\172\305\376\005\246\341\300\326\310\376\236\256\217\053\272
\075\231\370\330\163\011\130\106\156\246\234\364\327\047\323\225
\332\067\203\162\034\323\163\340\242\107\231\003\070\135\325\111

\171\000\051\034\307\354\233\040\034\007\044\151\127\170\262\071
\374\072\204\240\265\234\174\215\277\056\223\142\047\267\071\332
\027\030\256\275\074\011\150\377\204\233\074\325\326\013\003\343
\127\236\024\367\321\353\117\310\275\207\043\267\266\111\103\171
\205\134\272\353\222\013\241\306\350\150\250\114\026\261\032\231
\012\350\123\054\222\273\241\011\030\165\014\145\250\173\313\043
\267\032\302\050\205\303\033\377\320\053\142\357\244\173\011\221
\230\147\214\024\001\315\150\006\152\143\041\165\003\200\210\212
\156\201\306\205\362\251\244\055\347\364\245\044\020\107\203\312
\315\364\215\171\130\261\006\233\347\032\052\331\235\001\327\224
\175\355\003\112\312\360\333\350\251\001\076\365\126\231\311\036
\216\111\075\273\345\011\271\340\117\111\222\075\026\202\100\314
\314\131\306\346\072\355\022\056\151\074\154\225\261\375\252\035
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\113\106\143\376\000\064\100\160\301\303\271\241\335\246\160\342
\004\263\101\274\351\200\221\352\144\234\172\341\042\003\251\234
\156\157\016\145\117\154\207\207\136\363\156\240\371\165\245\233
\100\350\123\262\047\235\112\271\300\167\041\215\377\207\362\336
\274\214\357\027\337\267\111\013\321\362\156\060\013\032\016\116
\166\355\021\374\365\351\126\262\175\277\307\155\012\223\214\245
\320\300\266\035\276\072\116\224\242\327\156\154\013\302\212\174
\372\040\363\304\344\345\315\015\250\313\221\222\261\174\205\354
\265\024\151\146\016\202\347\315\316\310\055\246\121\177\041\301
\065\123\205\006\112\135\237\255\273\033\137\164
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "COMODO RSA Certification Authority"
Issuer: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
Serial Number:4c:aa:f9:ca:db:63:6f:e0:1f:f7:4e:d8:5b:03:86:9d
Subject: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
Not Valid Before: Tue Jan 19 00:00:00 2010
Not Valid After : Mon Jan 18 23:59:59 2038
Fingerprint (SHA-256): 52:F0:E1:C4:E5:8E:C6:29:29:1B:60:31:7F:07:46:71:B8:5D:7E:A8:0D:5B:07:27:34:63:53:4B:32:B4:02:34
Fingerprint (SHA1): AF:E5:D2:44:A8:D1:19:42:30:FF:47:9F:E2:F8:97:BB:CD:7A:8C:B4
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO RSA Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\257\345\322\104\250\321\031\102\060\377\107\237\342\370\227\273
\315\172\214\264

END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\033\061\260\161\100\066\314\024\066\221\255\304\076\375\354\030
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\042\103\117\115\117\104\117\040\122\123\101
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\114\252\371\312\333\143\157\340\037\367\116\330\133\003
\206\235
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "USERTrust RSA Certification Authority"
#
Issuer: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
Serial Number:01:fd:6d:30:fc:a3:ca:51:a8:1b:bc:64:0e:35:03:2d
Subject: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
Not Valid Before: Mon Feb 01 00:00:00 2010
Not Valid After : Mon Jan 18 23:59:59 2038
Fingerprint (SHA-256):
E7:93:C9:B0:2F:D8:AA:13:E2:1C:31:22:8A:CC:B0:81:19:64:3B:74:9C:89:89:64:B1:74:6D:46:C3:D4:CB:D2
Fingerprint (SHA1): 2B:8F:1B:57:33:0D:BB:A2:D0:7A:6C:51:F7:0E:E9:0D:DA:B9:AD:8E
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust RSA Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006

\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040
\122\123\101\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006
\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040
\122\123\101\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
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\003\055
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\336\060\202\003\306\240\003\002\001\002\002\020\001
\375\155\060\374\243\312\121\250\033\274\144\016\065\003\055\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\201
\210\061\013\060\011\006\003\125\004\006\023\002\125\123\061\023
\060\021\006\003\125\004\010\023\012\116\145\167\040\112\145\162
\163\145\171\061\024\060\022\006\003\125\004\007\023\013\112\145
\162\163\145\171\040\103\151\164\171\061\036\060\034\006\003\125
\004\012\023\025\124\150\145\040\125\123\105\122\124\122\125\123
\124\040\116\145\164\167\157\162\153\061\056\060\054\006\003\125
\004\003\023\045\125\123\105\122\124\162\165\163\164\040\122\123
\101\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\101\165\164\150\157\162\151\164\171\060\036\027\015\061\060\060
\062\060\061\060\060\060\060\060\060\132\027\015\063\070\060\061
\061\070\062\063\065\071\065\071\132\060\201\210\061\013\060\011
\006\003\125\004\006\023\002\125\123\061\023\060\021\006\003\125
\004\010\023\012\116\145\167\040\112\145\162\163\145\171\061\024
\060\022\006\003\125\004\007\023\013\112\145\162\163\145\171\040
\103\151\164\171\061\036\060\034\006\003\125\004\012\023\025\124
\150\145\040\125\123\105\122\124\122\125\123\124\040\116\145\164
\167\157\162\153\061\056\060\054\006\003\125\004\003\023\045\125
\123\105\122\124\162\165\163\164\040\122\123\101\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171\060\202\002\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012
\002\202\002\001\000\200\022\145\027\066\016\303\333\010\263\320

\254\127\015\166\355\315\047\323\114\255\120\203\141\342\252\040
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\334\361\323\261\326\173\067\050\021\053\107\332\071\306\274\072
\031\264\137\246\275\175\235\243\143\102\266\166\362\251\073\053
\221\370\342\157\320\354\026\040\220\011\076\342\350\164\311\030
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\274\376\023\360\207\024\173\366\344\037\216\324\344\121\306\021
\147\106\010\121\313\206\024\124\077\274\063\376\176\154\234\377
\026\235\030\275\121\216\065\246\247\146\310\162\147\333\041\146
\261\324\233\170\003\300\120\072\350\314\360\334\274\236\114\376
\257\005\226\065\037\127\132\267\377\316\371\075\267\054\266\366
\124\335\310\347\022\072\115\256\114\212\267\134\232\264\267\040
\075\312\177\042\064\256\176\073\150\146\001\104\347\001\116\106
\123\233\063\140\367\224\276\123\067\220\163\103\363\062\303\123
\357\333\252\376\164\116\151\307\153\214\140\223\336\304\307\014
\337\341\062\256\314\223\073\121\170\225\147\213\356\075\126\376
\014\320\151\017\033\017\363\045\046\153\063\155\367\156\107\372
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\015\301\223\124\060\031\023\254\323\175\067\247\353\135\072\154
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\142\216\265\146\317\045\210\315\204\270\261\077\244\071\017\331
\002\236\353\022\114\225\174\363\153\005\251\136\026\203\314\270
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\163\254\043\073\055\000\277\065\125\164\011\111\330\111\130\032
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\103\046\320\277\101\137\100\251\104\104\364\231\347\127\207\236
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\102\056\103\032\114\264\360\045\107\131\372\004\036\223\324\046
\106\112\120\201\262\336\276\170\267\374\147\025\341\311\127\204
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\006\003\125\035\016\004\026\004\024\123\171\277\132\252\053\112
\317\124\200\341\330\233\300\235\362\262\003\146\313\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\017\006
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\015
\006\011\052\206\110\206\367\015\001\001\014\005\000\003\202\002
\001\000\134\324\174\015\317\367\001\175\101\231\145\014\163\305
\122\237\313\370\317\231\006\177\033\332\103\025\237\236\002\125
\127\226\024\361\122\074\047\207\224\050\355\037\072\001\067\242
\166\374\123\120\300\204\233\306\153\116\272\214\041\117\242\216
\125\142\221\363\151\025\330\274\210\343\304\252\013\375\357\250
\351\113\125\052\006\040\155\125\170\051\031\356\137\060\134\113
\044\021\125\377\044\232\156\136\052\053\356\013\115\237\177\367
\001\070\224\024\225\103\007\011\373\140\251\356\034\253\022\214
\240\232\136\247\230\152\131\155\213\077\010\373\310\321\105\257
\030\025\144\220\022\017\163\050\056\305\342\044\116\374\130\354
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\271\154\214\074\022\135\145\332\275\127\022\266\103\153\377\345
\336\115\146\021\121\317\231\256\354\027\266\350\161\221\214\336
\111\376\335\065\161\242\025\047\224\034\317\141\343\046\273\157
\243\147\045\041\135\346\335\035\013\056\150\033\073\202\257\354
\203\147\205\324\230\121\164\261\271\231\200\211\377\177\170\031
\134\171\112\140\056\222\100\256\114\067\052\054\311\307\142\310
\016\135\367\066\133\312\340\045\045\001\264\335\032\007\234\167
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\251\055\337\271\002\367\365\227\232\265\065\332\303\147\260\207
\112\251\050\236\043\216\377\134\047\153\341\260\117\363\007\356
\000\056\324\131\207\313\122\101\225\352\364\107\327\356\144\101
\125\174\215\131\002\225\335\142\235\302\271\356\132\050\164\204
\245\233\267\220\307\014\007\337\365\211\066\164\062\326\050\301
\260\260\013\340\234\114\303\034\326\374\343\151\265\107\106\201
\057\242\202\253\323\143\104\160\304\215\377\055\063\272\255\217
\173\265\160\210\256\076\031\317\100\050\330\374\310\220\273\135
\231\042\365\122\346\130\305\037\210\061\103\356\210\035\327\306
\216\074\103\152\035\247\030\336\175\075\026\361\142\371\312\220
\250\375
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "USERTrust RSA Certification Authority"
Issuer: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
Serial Number:01:fd:6d:30:fc:a3:ca:51:a8:1b:bc:64:0e:35:03:2d
Subject: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
Not Valid Before: Mon Feb 01 00:00:00 2010
Not Valid After : Mon Jan 18 23:59:59 2038
Fingerprint (SHA-256):
E7:93:C9:B0:2F:D8:AA:13:E2:1C:31:22:8A:CC:B0:81:19:64:3B:74:9C:89:89:64:B1:74:6D:46:C3:D4:CB:D2
Fingerprint (SHA1): 2B:8F:1B:57:33:0D:BB:A2:D0:7A:6C:51:F7:0E:E9:0D:DA:B9:AD:8E
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust RSA Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\053\217\033\127\063\015\273\242\320\172\154\121\367\016\351\015
\332\271\255\216
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL

\033\376\151\321\221\267\031\063\243\162\250\017\341\125\345\265
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006
\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040
\122\123\101\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\001\375\155\060\374\243\312\121\250\033\274\144\016\065
\003\055
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "USERTrust ECC Certification Authority"
#
Issuer: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
Serial Number:5c:8b:99:c5:5a:94:c5:d2:71:56:de:cd:89:80:cc:26
Subject: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
Not Valid Before: Mon Feb 01 00:00:00 2010
Not Valid After : Mon Jan 18 23:59:59 2038
Fingerprint (SHA-256):
4F:F4:60:D5:4B:9C:86:DA:BF:BC:FC:57:12:E0:40:0D:2B:ED:3F:BC:4D:4F:BD:AA:86:E0:6A:DC:D2:A9:AD:7A
Fingerprint (SHA1): D1:CB:CA:5D:B2:D5:2A:7F:69:3B:67:4D:E5:F0:5A:1D:0C:95:7D:F0
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust ECC Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006
\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006

\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040
\105\103\103\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006
\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040
\105\103\103\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\134\213\231\305\132\224\305\322\161\126\336\315\211\200
\314\046
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\217\060\202\002\025\240\003\002\001\002\002\020\134
\213\231\305\132\224\305\322\161\126\336\315\211\200\314\046\060
\012\006\010\052\206\110\316\075\004\003\003\060\201\210\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\023\060\021\006
\003\125\004\010\023\012\116\145\167\040\112\145\162\163\145\171
\061\024\060\022\006\003\125\004\007\023\013\112\145\162\163\145
\171\040\103\151\164\171\061\036\060\034\006\003\125\004\012\023
\025\124\150\145\040\125\123\105\122\124\122\125\123\124\040\116
\145\164\167\157\162\153\061\056\060\054\006\003\125\004\003\023
\045\125\123\105\122\124\162\165\163\164\040\105\103\103\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\060\036\027\015\061\060\060\062\060\061
\060\060\060\060\060\060\132\027\015\063\070\060\061\061\070\062
\063\065\071\065\071\132\060\201\210\061\013\060\011\006\003\125
\004\006\023\002\125\123\061\023\060\021\006\003\125\004\010\023
\012\116\145\167\040\112\145\162\163\145\171\061\024\060\022\006
\003\125\004\007\023\013\112\145\162\163\145\171\040\103\151\164
\171\061\036\060\034\006\003\125\004\012\023\025\124\150\145\040
\125\123\105\122\124\122\125\123\124\040\116\145\164\167\157\162
\153\061\056\060\054\006\003\125\004\003\023\045\125\123\105\122
\124\162\165\163\164\040\105\103\103\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\060\166\060\020\006\007\052\206\110\316\075\002\001\006\005
\053\201\004\000\042\003\142\000\004\032\254\124\132\251\371\150
\043\347\172\325\044\157\123\306\132\330\113\253\306\325\266\321
\346\163\161\256\335\234\326\014\141\375\333\240\211\003\270\005
\024\354\127\316\356\135\077\342\041\263\316\367\324\212\171\340

\243\203\176\055\227\320\141\304\361\231\334\045\221\143\253\177
\060\243\264\160\342\307\241\063\234\363\277\056\134\123\261\137
\263\175\062\177\212\064\343\171\171\243\102\060\100\060\035\006
\003\125\035\016\004\026\004\024\072\341\011\206\324\317\031\302
\226\166\164\111\166\334\340\065\306\143\143\232\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\006\060\017\006\003
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\012\006
\010\052\206\110\316\075\004\003\003\003\150\000\060\145\002\060
\066\147\241\026\010\334\344\227\000\101\035\116\276\341\143\001
\317\073\252\102\021\144\240\235\224\071\002\021\171\134\173\035
\372\144\271\356\026\102\263\277\212\302\011\304\354\344\261\115
\002\061\000\351\052\141\107\214\122\112\113\116\030\160\366\326
\104\326\156\365\203\272\155\130\275\044\331\126\110\352\357\304
\242\106\201\210\152\072\106\321\251\233\115\311\141\332\321\135
\127\152\030
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "USERTrust ECC Certification Authority"
Issuer: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
Serial Number:5c:8b:99:c5:5a:94:c5:d2:71:56:de:cd:89:80:cc:26
Subject: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
Not Valid Before: Mon Feb 01 00:00:00 2010
Not Valid After : Mon Jan 18 23:59:59 2038
Fingerprint (SHA-256): 4F:F4:60:D5:4B:9C:86:DA:BF:BC:FC:57:12:E0:40:0D:2B:ED:3F:BC:4D:4F:BD:AA:86:E0:6A:DC:D2:A9:AD:7A
Fingerprint (SHA1): D1:CB:CA:5D:B2:D5:2A:7F:69:3B:67:4D:E5:F0:5A:1D:0C:95:7D:F0
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust ECC Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\321\313\312\135\262\325\052\177\151\073\147\115\345\360\132\035
\014\225\175\360
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\372\150\274\331\265\177\255\375\311\035\006\203\050\314\044\301
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006

\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040
\105\103\103\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\134\213\231\305\132\224\305\322\161\126\336\315\211\200
\314\046
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "GlobalSign ECC Root CA - R5"
#
Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
Serial Number:60:59:49:e0:26:2e:bb:55:f9:0a:77:8a:71:f9:4a:d8:6c
Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
Not Valid Before: Tue Nov 13 00:00:00 2012
Not Valid After : Tue Jan 19 03:14:07 2038
Fingerprint (SHA-256):
17:9F:BC:14:8A:3D:D0:0F:D2:4E:A1:34:58:CC:43:BF:A7:F5:9C:81:82:D7:83:A5:13:F6:EB:EC:10:0C:89:24
Fingerprint (SHA1): 1F:24:C6:30:CD:A4:18:EF:20:69:FF:AD:4F:DD:5F:46:3A:1B:69:AA
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R5"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\103\101\040\055\040\122\065\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\103\101\040\055\040\122\065\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\140\131\111\340\046\056\273\125\371\012\167\212\161\371
\112\330\154
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\036\060\202\001\244\240\003\002\001\002\002\021\140
\131\111\340\046\056\273\125\371\012\167\212\161\371\112\330\154
\060\012\006\010\052\206\110\316\075\004\003\003\060\120\061\044
\060\042\006\003\125\004\013\023\033\107\154\157\142\141\154\123
\151\147\156\040\105\103\103\040\122\157\157\164\040\103\101\040
\055\040\122\065\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156\060\036
\027\015\061\062\061\061\061\063\060\060\060\060\060\060\132\027
\015\063\070\060\061\061\071\060\063\061\064\060\067\132\060\120
\061\044\060\042\006\003\125\004\013\023\033\107\154\157\142\141
\154\123\151\147\156\040\105\103\103\040\122\157\157\164\040\103
\101\040\055\040\122\065\061\023\060\021\006\003\125\004\012\023
\012\107\154\157\142\141\154\123\151\147\156\061\023\060\021\006
\003\125\004\003\023\012\107\154\157\142\141\154\123\151\147\156
\060\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053
\201\004\000\042\003\142\000\004\107\105\016\226\373\175\135\277
\351\071\321\041\370\237\013\266\325\173\036\222\072\110\131\034
\360\142\061\055\300\172\050\376\032\247\134\263\266\314\227\347
\105\324\130\372\321\167\155\103\242\300\207\145\064\012\037\172
\335\353\074\063\241\305\235\115\244\157\101\225\070\177\311\036
\204\353\321\236\111\222\207\224\207\014\072\205\112\146\237\235
\131\223\115\227\141\006\206\112\243\102\060\100\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\006\060\017\006\003
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\035\006
\003\125\035\016\004\026\004\024\075\346\051\110\233\352\007\312
\041\104\112\046\336\156\336\322\203\320\237\131\060\012\006\010
\052\206\110\316\075\004\003\003\003\150\000\060\145\002\061\000
\345\151\022\311\156\333\306\061\272\011\101\341\227\370\373\375
\232\342\175\022\311\355\174\144\323\313\005\045\213\126\331\240
\347\136\135\116\013\203\234\133\166\051\240\011\046\041\152\142
\002\060\161\322\265\217\134\352\073\341\170\011\205\250\165\222
\073\310\134\375\110\357\015\164\042\250\010\342\156\305\111\316
\307\014\274\247\141\151\361\367\073\341\052\313\371\053\363\146
\220\067
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "GlobalSign ECC Root CA - R5"
Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5

```
# Serial Number:60:59:49:e0:26:2e:bb:55:f9:0a:77:8a:71:f9:4a:d8:6c
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After : Tue Jan 19 03:14:07 2038
# Fingerprint (SHA-256):
17:9F:BC:14:8A:3D:D0:0F:D2:4E:A1:34:58:CC:43:BF:A7:F5:9C:81:82:D7:83:A5:13:F6:EB:EC:10:0C:89:24
# Fingerprint (SHA1): 1F:24:C6:30:CD:A4:18:EF:20:69:FF:AD:4F:DD:5F:46:3A:1B:69:AA
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R5"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\037\044\306\060\315\244\030\357\040\151\377\255\117\335\137\106
\072\033\151\252
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\237\255\073\034\002\036\212\272\027\164\070\201\014\242\274\010
END
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\103\101\040\055\040\122\065\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\140\131\111\340\046\056\273\125\371\012\167\212\161\371
\112\330\154
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Staat der Nederlanden Root CA - G3"
#
# Issuer: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Serial Number: 10003001 (0x98a239)
# Subject: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Not Valid Before: Thu Nov 14 11:28:42 2013
# Not Valid After : Mon Nov 13 23:00:00 2028
# Fingerprint (SHA-256):
3C:4F:B0:B9:5A:B8:B3:00:32:F4:32:B8:6F:53:5F:E1:72:C1:85:D0:FD:39:86:58:37:CF:36:18:7F:A6:F4:28
# Fingerprint (SHA1): D8:EB:6B:41:51:92:59:E0:F3:E7:85:00:C0:3D:B6:88:97:C9:EE:FC
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
```

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden Root CA - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\053\060\051\006\003\125\004\003\014\042\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
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\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\053\060\051\006\003\125\004\003\014\042\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\122\157\157\164\040\103\101\040\055\040\107\063
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CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\000\230\242\071
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\060\202\005\164\060\202\003\134\240\003\002\001\002\002\004\000
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\005\000\060\132\061\013\060\011\006\003\125\004\006\023\002\116
\114\061\036\060\034\006\003\125\004\012\014\025\123\164\141\141
\164\040\144\145\162\040\116\145\144\145\162\154\141\156\144\145
\156\061\053\060\051\006\003\125\004\003\014\042\123\164\141\141
\164\040\144\145\162\040\116\145\144\145\162\154\141\156\144\145
\156\040\122\157\157\164\040\103\101\040\055\040\107\063\060\036
\027\015\061\063\061\061\061\064\061\061\062\070\064\062\132\027
\015\062\070\061\061\061\063\062\063\060\060\060\060\132\060\132
\061\013\060\011\006\003\125\004\006\023\002\116\114\061\036\060
\034\006\003\125\004\012\014\025\123\164\141\141\164\040\144\145
\162\040\116\145\144\145\162\154\141\156\144\145\156\061\053\060
\051\006\003\125\004\003\014\042\123\164\141\141\164\040\144\145
\162\040\116\145\144\145\162\154\141\156\144\145\156\040\122\157
\157\164\040\103\101\040\055\040\107\063\060\202\002\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002
\017\000\060\202\002\012\002\202\002\001\000\276\062\242\124\017
\160\373\054\134\131\353\154\304\244\121\350\205\052\263\314\112
\064\362\260\137\363\016\307\034\075\123\036\210\010\150\330\157
\075\255\302\236\314\202\147\007\047\207\150\161\072\237\165\226
\042\106\005\260\355\255\307\133\236\052\336\234\374\072\306\225

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\050\222\331\133\043\155\146\265\155\007\102\353\246\063\316\222
\333\300\366\154\143\170\315\312\116\075\265\345\122\233\361\276
\073\346\124\140\260\146\036\011\253\007\376\124\211\021\102\321
\367\044\272\140\170\032\230\367\311\021\375\026\301\065\032\124
\165\357\103\323\345\256\116\316\347\173\303\306\116\141\121\113
\253\232\105\113\241\037\101\275\110\123\025\161\144\013\206\263
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\345\326\317\115\365\143\011\267\025\071\326\173\254\353\343\174
\351\116\374\165\102\310\355\130\225\014\006\102\242\234\367\344
\160\263\337\162\157\132\067\100\211\330\205\244\327\361\013\336
\103\031\324\112\130\054\214\212\071\236\277\204\207\361\026\073
\066\014\351\323\264\312\154\031\101\122\011\241\035\260\152\277
\202\357\160\121\041\062\334\005\166\214\313\367\144\344\003\120
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\265\134\322\253\040\223\264\346\202\203\160\066\305\315\243\215
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\016\132\107\266\357\227\141\165\117\331\376\307\262\035\324\355
\135\111\263\251\152\313\146\204\023\325\134\240\334\337\156\167
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\004\003\002\001\006\060\035\006\003\125\035\016\004\026\004\024
\124\255\372\307\222\127\256\312\065\234\056\022\373\344\272\135
\040\334\224\127\060\015\006\011\052\206\110\206\367\015\001\001
\013\005\000\003\202\002\001\000\060\231\235\005\062\310\136\016
\073\230\001\072\212\244\347\007\367\172\370\347\232\337\120\103
\123\227\052\075\312\074\107\230\056\341\025\173\361\222\363\141
\332\220\045\026\145\300\237\124\135\016\003\073\133\167\002\234
\204\266\015\230\137\064\335\073\143\302\303\050\201\302\234\051
\056\051\342\310\303\001\362\063\352\052\252\314\011\010\367\145
\147\306\315\337\323\266\053\247\275\314\321\016\160\137\270\043
\321\313\221\116\012\364\310\172\345\331\143\066\301\324\337\374
\042\227\367\140\135\352\051\057\130\262\275\130\275\215\226\117
\020\165\277\110\173\075\121\207\241\074\164\042\302\374\007\177
\200\334\304\254\376\152\301\160\060\260\351\216\151\342\054\151
\201\224\011\272\335\376\115\300\203\214\224\130\300\106\040\257
\234\037\002\370\065\125\111\057\106\324\300\360\240\226\002\017
\063\305\161\363\236\043\175\224\267\375\072\323\011\203\006\041
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\314\160\311\171\200\370\376\114\367\065\204\031\212\061\373\012
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\321\252\021\102\156\323\043\002\004\013\306\145\335\335\122\167
\332\201\153\262\250\372\001\070\271\226\352\052\154\147\227\211
\224\236\274\341\124\325\344\152\170\357\112\275\053\232\075\100
\176\306\300\165\322\156\373\150\060\354\354\213\235\371\111\065
\232\032\054\331\263\225\071\325\036\222\367\246\271\145\057\345
\075\155\072\110\114\010\334\344\050\022\050\276\175\065\134\352
\340\026\176\023\033\152\327\076\327\236\374\055\165\262\301\024
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\157\140\221\244\202\205\133\126\101\274\320\104\253\152\023\276
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CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Staat der Nederlanden Root CA - G3"
Issuer: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
Serial Number: 10003001 (0x98a239)
Subject: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
Not Valid Before: Thu Nov 14 11:28:42 2013
Not Valid After : Mon Nov 13 23:00:00 2028
Fingerprint (SHA-256):
3C:4F:B0:B9:5A:B8:B3:00:32:F4:32:B8:6F:53:5F:E1:72:C1:85:D0:FD:39:86:58:37:CF:36:18:7F:A6:F4:28
Fingerprint (SHA1): D8:EB:6B:41:51:92:59:E0:F3:E7:85:00:C0:3D:B6:88:97:C9:EE:FC
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden Root CA - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\330\353\153\101\121\222\131\340\363\347\205\000\300\075\266\210
\227\311\356\374
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
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END
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\116\114\061
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\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061

\053\060\051\006\003\125\004\003\014\042\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\000\230\242\071
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Staat der Nederlanden EV Root CA"
#
Issuer: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
Serial Number: 10000013 (0x98968d)
Subject: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
Not Valid Before: Wed Dec 08 11:19:29 2010
Not Valid After : Thu Dec 08 11:10:28 2022
Fingerprint (SHA-256):
4D:24:91:41:4C:FE:95:67:46:EC:4C:EF:A6:CF:6F:72:E2:8A:13:29:43:2F:9D:8A:90:7A:C4:CB:5D:AD:C1:5A
Fingerprint (SHA1): 76:E2:7E:C1:4F:DB:82:C1:C0:A6:75:B5:05:BE:3D:29:B4:ED:DB:BB
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden EV Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\116\114\061
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CKA_ID UTF8 "0"
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CKA_SERIAL_NUMBER MULTILINE_OCTAL
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\114\061\036\060\034\006\003\125\004\012\014\025\123\164\141\141
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\164\040\144\145\162\040\116\145\144\145\162\154\141\156\144\145
\156\040\105\126\040\122\157\157\164\040\103\101\060\036\027\015
\061\060\061\062\060\070\061\061\061\071\062\071\132\027\015\062
\062\061\062\060\070\061\061\061\060\062\070\132\060\130\061\013
\060\011\006\003\125\004\006\023\002\116\114\061\036\060\034\006
\003\125\004\012\014\025\123\164\141\141\164\040\144\145\162\040
\116\145\144\145\162\154\141\156\144\145\156\061\051\060\047\006
\003\125\004\003\014\040\123\164\141\141\164\040\144\145\162\040
\116\145\144\145\162\154\141\156\144\145\156\040\105\126\040\122
\157\157\164\040\103\101\060\202\002\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202
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\063\203\065\054\151\354\334\011\244\343\121\250\045\053\171\270
\010\075\340\221\272\204\205\306\205\244\312\346\311\056\123\244
\311\044\036\375\125\146\161\135\054\305\140\150\004\267\331\302
\122\046\070\210\244\326\073\100\246\302\315\077\315\230\223\263
\124\024\130\226\125\325\120\376\206\255\244\143\177\134\207\366
\216\346\047\222\147\027\222\002\003\054\334\326\146\164\355\335
\147\377\301\141\215\143\117\017\233\155\027\060\046\357\253\322
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\241\115\262\046\306\272\154\137\155\326\257\321\261\023\216\251
\255\363\136\151\165\046\030\076\101\053\041\177\356\213\135\007
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\311\015\332\305\231\342\274\170\101\063\166\341\277\057\135\345
\244\230\120\014\025\335\340\372\234\177\070\150\320\262\246\172
\247\321\061\275\176\212\130\047\103\263\272\063\221\323\247\230
\025\134\232\346\323\017\165\331\374\101\230\227\076\252\045\333
\217\222\056\260\173\014\137\361\143\251\067\371\233\165\151\114
\050\046\045\332\325\362\022\160\105\125\343\337\163\136\067\365
\041\154\220\216\065\132\311\323\043\353\323\300\276\170\254\102
\050\130\146\245\106\155\160\002\327\020\371\113\124\374\135\206
\112\207\317\177\312\105\254\021\132\265\040\121\215\057\210\107
\227\071\300\317\272\300\102\001\100\231\110\041\013\153\247\322
\375\226\325\321\276\106\235\111\340\013\246\240\042\116\070\320
\301\074\060\274\160\217\054\165\314\320\305\214\121\073\075\224
\010\144\046\141\175\271\303\145\217\024\234\041\320\252\375\027
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\274\342\162\101\133\041\224\323\105\067\224\321\337\011\071\135
\347\043\252\232\035\312\155\250\012\206\205\212\202\276\102\007
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\331\327\316\130\027\350\251\051\256\163\110\207\347\233\312\156
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\366\152\345\045\204\137\006\312\301\206\071\021\333\130\315\167
\073\054\302\114\017\136\232\343\360\253\076\141\033\120\044\302
\300\364\361\031\360\021\051\266\245\030\002\233\327\143\114\160
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\335\237\162\303\133\053\337\214\133\316\345\014\106\154\222\262
\012\243\114\124\102\030\025\022\030\275\332\374\272\164\156\377
\301\266\240\144\330\251\137\125\256\237\134\152\166\226\330\163
\147\207\373\115\177\134\356\151\312\163\020\373\212\251\375\236
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\172\132\216\171\324\223\344\273\150\122\204\254\154\351\363\230
\160\125\162\062\371\064\253\053\111\265\315\040\142\344\072\172
\147\143\253\226\334\155\256\227\354\374\237\166\126\210\056\146
\317\133\266\311\244\260\327\005\272\341\047\057\223\273\046\052
\242\223\260\033\363\216\276\035\100\243\271\066\217\076\202\032
\032\136\210\352\120\370\131\342\203\106\051\013\343\104\134\341
\225\266\151\220\232\024\157\227\256\201\317\150\357\231\232\276
\265\347\341\177\370\372\023\107\026\114\314\155\010\100\347\213
\170\157\120\202\104\120\077\146\006\212\253\103\204\126\112\017
\040\055\206\016\365\322\333\322\172\212\113\315\245\350\116\361
\136\046\045\001\131\043\240\176\322\366\176\041\127\327\047\274
\025\127\114\244\106\301\340\203\036\014\114\115\037\117\006\031
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END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Staat der Nederlanden EV Root CA"

Issuer: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
Serial Number: 10000013 (0x98968d)
Subject: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
Not Valid Before: Wed Dec 08 11:19:29 2010
Not Valid After : Thu Dec 08 11:10:28 2022
Fingerprint (SHA-256):
4D:24:91:41:4C:FE:95:67:46:EC:4C:EF:A6:CF:6F:72:E2:8A:13:29:43:2F:9D:8A:90:7A:C4:CB:5D:AD:C1:5A
Fingerprint (SHA1): 76:E2:7E:C1:4F:DB:82:C1:C0:A6:75:B5:05:BE:3D:29:B4:ED:DB:BB
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden EV Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\166\342\176\301\117\333\202\301\300\246\165\265\005\276\075\051
\264\355\333\273
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\374\006\257\173\350\032\361\232\264\350\322\160\037\300\365\272
END
CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\051\060\047\006\003\125\004\003\014\040\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\105\126\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\000\230\226\215
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "IdenTrust Commercial Root CA 1"
#
Issuer: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
Serial Number:0a:01:42:80:00:00:01:45:23:c8:44:b5:00:00:00:02
Subject: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
Not Valid Before: Thu Jan 16 18:12:23 2014
Not Valid After : Mon Jan 16 18:12:23 2034
Fingerprint (SHA-256):
5D:56:49:9B:E4:D2:E0:8B:CF:CA:D0:8A:3E:38:72:3D:50:50:3B:DE:70:69:48:E4:2F:55:60:30:19:E5:28:AE
Fingerprint (SHA1): DF:71:7E:AA:4A:D9:4E:C9:55:84:99:60:2D:48:DE:5F:BC:F0:3A:25
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Commercial Root CA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\047\060\045\006\003\125\004\003\023\036\111\144
\145\156\124\162\165\163\164\040\103\157\155\155\145\162\143\151
\141\154\040\122\157\157\164\040\103\101\040\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\047\060\045\006\003\125\004\003\023\036\111\144
\145\156\124\162\165\163\164\040\103\157\155\155\145\162\143\151
\141\154\040\122\157\157\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\012\001\102\200\000\000\001\105\043\310\104\265\000\000
\000\002
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\140\060\202\003\110\240\003\002\001\002\002\020\012
\001\102\200\000\000\001\105\043\310\104\265\000\000\000\002\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\112
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\022\060
\020\006\003\125\004\012\023\011\111\144\145\156\124\162\165\163
\164\061\047\060\045\006\003\125\004\003\023\036\111\144\145\156
\124\162\165\163\164\040\103\157\155\155\145\162\143\151\141\154
\040\122\157\157\164\040\103\101\040\061\060\036\027\015\061\064
\060\061\061\066\061\070\061\062\062\063\132\027\015\063\064\060
\061\061\066\061\070\061\062\062\063\132\060\112\061\013\060\011
\006\003\125\004\006\023\002\125\123\061\022\060\020\006\003\125
\004\012\023\011\111\144\145\156\124\162\165\163\164\061\047\060
\045\006\003\125\004\003\023\036\111\144\145\156\124\162\165\163
\164\040\103\157\155\155\145\162\143\151\141\154\040\122\157\157
\164\040\103\101\040\061\060\202\002\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202
\002\012\002\202\002\001\000\247\120\031\336\077\231\075\324\063
\106\361\157\121\141\202\262\251\117\217\147\211\135\204\331\123
\335\014\050\331\327\360\377\256\225\103\162\231\371\265\135\174
\212\301\102\341\061\120\164\321\201\015\174\315\233\041\253\103
\342\254\255\136\206\156\363\011\212\037\132\062\275\242\353\224
\371\350\134\012\354\377\230\322\257\161\263\264\123\237\116\207
\357\222\274\275\354\117\062\060\210\113\027\136\127\304\123\302

\366\002\227\215\331\142\053\277\044\037\142\215\337\303\270\051
\113\111\170\074\223\140\210\042\374\231\332\066\310\302\242\324
\054\124\000\147\065\156\163\277\002\130\360\244\335\345\260\242
\046\172\312\340\066\245\031\026\365\375\267\357\256\077\100\365
\155\132\004\375\316\064\312\044\334\164\043\033\135\063\023\022
\135\304\001\045\366\060\335\002\135\237\340\325\107\275\264\353
\033\241\273\111\111\330\237\133\002\363\212\344\044\220\344\142
\117\117\301\257\213\016\164\027\250\321\162\210\152\172\001\111
\314\264\106\171\306\027\261\332\230\036\007\131\372\165\041\205
\145\335\220\126\316\373\253\245\140\235\304\235\371\122\260\213
\275\207\371\217\053\043\012\043\166\073\367\063\341\311\000\363
\151\371\113\242\340\116\274\176\223\071\204\007\367\104\160\176
\376\007\132\345\261\254\321\030\314\362\065\345\111\111\010\312
\126\311\075\373\017\030\175\213\073\301\023\302\115\217\311\117
\016\067\351\037\241\016\152\337\142\056\313\065\006\121\171\054
\310\045\070\364\372\113\247\211\134\234\322\343\015\071\206\112
\164\174\325\131\207\302\077\116\014\134\122\364\075\367\122\202
\361\352\243\254\375\111\064\032\050\363\101\210\072\023\356\350
\336\377\231\035\137\272\313\350\036\362\271\120\140\300\061\323
\163\345\357\276\240\355\063\013\164\276\040\040\304\147\154\360
\010\003\172\125\200\177\106\116\226\247\364\036\076\341\366\330
\011\341\063\144\053\143\327\062\136\237\371\300\173\017\170\157
\227\274\223\232\371\234\022\220\170\172\200\207\025\327\162\164
\234\125\164\170\261\272\341\156\160\004\272\117\240\272\150\303
\173\377\061\360\163\075\075\224\052\261\013\101\016\240\376\115
\210\145\153\171\063\264\327\002\003\001\000\001\243\102\060\100
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\035\006\003\125\035\016\004\026\004\024\355\104\031\300
\323\360\006\213\356\244\173\276\102\347\046\124\310\216\066\166
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003
\202\002\001\000\015\256\220\062\366\246\113\174\104\166\031\141
\036\047\050\315\136\124\357\045\274\343\010\220\371\051\327\256
\150\010\341\224\000\130\357\056\056\176\123\122\214\266\134\007
\352\210\272\231\213\120\224\327\202\200\337\141\011\000\223\255
\015\024\346\316\301\362\067\224\170\260\137\234\263\242\163\270
\217\005\223\070\315\215\076\260\270\373\300\317\261\362\354\055
\055\033\314\354\252\232\263\252\140\202\033\055\073\303\204\075
\127\212\226\036\234\165\270\323\060\315\140\010\203\220\323\216
\124\361\115\146\300\135\164\003\100\243\356\205\176\302\037\167
\234\006\350\301\247\030\135\122\225\355\311\335\045\236\155\372
\251\355\243\072\064\320\131\173\332\355\120\363\065\277\355\353
\024\115\061\307\140\364\332\361\207\234\342\110\342\306\305\067
\373\006\020\372\165\131\146\061\107\051\332\166\232\034\351\202
\256\357\232\271\121\367\210\043\232\151\225\142\074\345\125\200
\066\327\124\002\377\361\271\135\316\324\043\157\330\105\204\112
\133\145\357\211\014\335\024\247\040\313\030\245\045\264\015\371
\001\360\242\322\364\000\310\164\216\241\052\110\216\145\333\023

\304\342\045\027\175\353\276\207\133\027\040\124\121\223\112\123
\003\013\354\135\312\063\355\142\375\105\307\057\133\334\130\240
\200\071\346\372\327\376\023\024\246\355\075\224\112\102\164\324
\303\167\131\163\315\217\106\276\125\070\357\372\350\221\062\352
\227\130\004\042\336\070\303\314\274\155\311\063\072\152\012\151
\077\240\310\352\162\217\214\143\206\043\275\155\074\226\236\225
\340\111\114\252\242\271\052\033\234\066\201\170\355\303\350\106
\342\046\131\104\165\036\331\165\211\121\315\020\204\235\141\140
\313\135\371\227\042\115\216\230\346\343\177\366\133\273\256\315
\312\112\201\153\136\013\363\121\341\164\053\351\176\047\247\331
\231\111\116\370\245\200\333\045\017\034\143\142\212\311\063\147
\153\074\020\203\306\255\336\250\315\026\216\215\360\007\067\161
\237\362\253\374\101\365\301\213\354\000\067\135\011\345\116\200
\357\372\261\134\070\006\245\033\112\341\334\070\055\074\334\253
\037\220\032\325\112\234\356\321\160\154\314\356\364\127\370\030
\272\204\156\207
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "IdenTrust Commercial Root CA 1"
Issuer: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
Serial Number:0a:01:42:80:00:00:01:45:23:c8:44:b5:00:00:00:02
Subject: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
Not Valid Before: Thu Jan 16 18:12:23 2014
Not Valid After : Mon Jan 16 18:12:23 2034
Fingerprint (SHA-256):
5D:56:49:9B:E4:D2:E0:8B:CF:CA:D0:8A:3E:38:72:3D:50:50:3B:DE:70:69:48:E4:2F:55:60:30:19:E5:28:AE
Fingerprint (SHA1): DF:71:7E:AA:4A:D9:4E:C9:55:84:99:60:2D:48:DE:5F:BC:F0:3A:25
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Commercial Root CA 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\337\161\176\252\112\331\116\311\125\204\231\140\055\110\336\137
\274\360\072\045
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\263\076\167\163\165\356\240\323\343\176\111\143\111\131\273\307
END
CKA_ISSUER MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\047\060\045\006\003\125\004\003\023\036\111\144
\145\156\124\162\165\163\164\040\103\157\155\155\145\162\143\151
\141\154\040\122\157\157\164\040\103\101\040\061

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END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\012\001\102\200\000\000\001\105\043\310\104\265\000\000
\000\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "IdenTrust Public Sector Root CA 1"
#
# Issuer: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Serial Number:0a:01:42:80:00:00:01:45:23:cf:46:7c:00:00:00:02
# Subject: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 17:53:32 2014
# Not Valid After : Mon Jan 16 17:53:32 2034
# Fingerprint (SHA-256):
30:D0:89:5A:9A:44:8A:26:20:91:63:55:22:D1:F5:20:10:B5:86:7A:CA:E1:2C:78:EF:95:8F:D4:F4:38:9F:2F
# Fingerprint (SHA1): BA:29:41:60:77:98:3F:F4:F3:EF:F2:31:05:3B:2E:EA:6D:4D:45:FD
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Public Sector Root CA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\052\060\050\006\003\125\004\003\023\041\111\144
\145\156\124\162\165\163\164\040\120\165\142\154\151\143\040\123
\145\143\164\157\162\040\122\157\157\164\040\103\101\040\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\052\060\050\006\003\125\004\003\023\041\111\144
\145\156\124\162\165\163\164\040\120\165\142\154\151\143\040\123
\145\143\164\157\162\040\122\157\157\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\012\001\102\200\000\000\001\105\043\317\106\174\000\000
\000\002
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\146\060\202\003\116\240\003\002\001\002\002\020\012
```

\001\102\200\000\000\001\105\043\317\106\174\000\000\000\002\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\115
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\022\060
\020\006\003\125\004\012\023\011\111\144\145\156\124\162\165\163
\164\061\052\060\050\006\003\125\004\003\023\041\111\144\145\156
\124\162\165\163\164\040\120\165\142\154\151\143\040\123\145\143
\164\157\162\040\122\157\157\164\040\103\101\040\061\060\036\027
\015\061\064\060\061\061\066\061\067\065\063\063\062\132\027\015
\063\064\060\061\061\066\061\067\065\063\063\062\132\060\115\061
\013\060\011\006\003\125\004\006\023\002\125\123\061\022\060\020
\006\003\125\004\012\023\011\111\144\145\156\124\162\165\163\164
\061\052\060\050\006\003\125\004\003\023\041\111\144\145\156\124
\162\165\163\164\040\120\165\142\154\151\143\040\123\145\143\164
\157\162\040\122\157\157\164\040\103\101\040\061\060\202\002\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\002\017\000\060\202\002\012\002\202\002\001\000\266\042\224
\374\244\110\257\350\107\153\012\373\047\166\344\362\077\212\073
\172\112\054\061\052\214\215\260\251\303\061\153\250\167\166\204
\046\266\254\201\102\015\010\353\125\130\273\172\370\274\145\175
\362\240\155\213\250\107\351\142\166\036\021\356\010\024\321\262
\104\026\364\352\320\372\036\057\136\333\313\163\101\256\274\000
\260\112\053\100\262\254\341\073\113\302\055\235\344\241\233\354
\032\072\036\360\010\263\320\344\044\065\007\237\234\264\311\122
\155\333\007\312\217\265\133\360\203\363\117\307\055\245\310\255
\313\225\040\244\061\050\127\130\132\344\215\033\232\253\236\015
\014\362\012\063\071\042\071\012\227\056\363\123\167\271\104\105
\375\204\313\066\040\201\131\055\232\157\155\110\110\141\312\114
\337\123\321\257\122\274\104\237\253\057\153\203\162\357\165\200
\332\006\063\033\135\310\332\143\306\115\315\254\146\061\315\321
\336\076\207\020\066\341\271\244\172\357\140\120\262\313\312\246
\126\340\067\257\253\064\023\071\045\350\071\146\344\230\172\252
\022\230\234\131\146\206\076\255\361\260\312\076\006\017\173\360
\021\113\067\240\104\155\173\313\250\214\161\364\325\265\221\066
\314\360\025\306\053\336\121\027\261\227\114\120\075\261\225\131
\174\005\175\055\041\325\000\277\001\147\242\136\173\246\134\362
\367\042\361\220\015\223\333\252\104\121\146\314\175\166\003\353
\152\250\052\070\031\227\166\015\153\212\141\371\274\366\356\166
\375\160\053\335\051\074\370\012\036\133\102\034\213\126\057\125
\033\034\241\056\265\307\026\346\370\252\074\222\216\151\266\001
\301\265\206\235\211\017\013\070\224\124\350\352\334\236\075\045
\274\123\046\355\325\253\071\252\305\100\114\124\253\262\264\331
\331\370\327\162\333\034\274\155\275\145\137\357\210\065\052\146
\057\356\366\263\145\360\063\215\174\230\101\151\106\017\103\034
\151\372\233\265\320\141\152\315\312\113\331\114\220\106\253\025
\131\241\107\124\051\056\203\050\137\034\302\242\253\162\027\000
\006\216\105\354\213\342\063\075\177\332\031\104\344\142\162\303
\337\042\306\362\126\324\335\137\225\162\355\155\137\367\110\003
\133\375\305\052\240\366\163\043\204\020\033\001\347\002\003\001

\000\001\243\102\060\100\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026
\004\024\343\161\340\236\330\247\102\331\333\161\221\153\224\223
\353\303\243\321\024\243\060\015\006\011\052\206\110\206\367\015
\001\001\013\005\000\003\202\002\001\000\107\372\335\012\260\021
\221\070\255\115\135\367\345\016\227\124\031\202\110\207\124\214
\252\144\231\330\132\376\210\001\305\130\245\231\261\043\124\043
\267\152\035\040\127\345\001\142\101\027\323\011\333\165\313\156
\124\220\165\376\032\237\201\012\302\335\327\367\011\320\133\162
\025\344\036\011\152\075\063\363\041\232\346\025\176\255\121\325
\015\020\355\175\102\300\217\356\300\232\010\325\101\326\134\016
\041\151\156\200\141\016\025\300\270\317\305\111\022\122\314\276
\072\314\324\056\070\005\336\065\375\037\157\270\200\150\230\075
\115\240\312\100\145\322\163\174\365\213\331\012\225\077\330\077
\043\155\032\321\052\044\031\331\205\263\027\357\170\156\251\130
\321\043\323\307\023\355\162\045\177\135\261\163\160\320\177\006
\227\011\204\051\200\141\035\372\136\377\163\254\240\343\211\270
\034\161\025\306\336\061\177\022\334\341\155\233\257\347\350\237
\165\170\114\253\106\073\232\316\277\005\030\135\115\025\074\026
\232\031\120\004\232\262\232\157\145\213\122\137\074\130\004\050
\045\300\146\141\061\176\271\340\165\271\032\250\201\326\162\027
\263\305\003\061\065\021\170\170\242\340\351\060\214\177\200\337
\130\337\074\272\047\226\342\200\064\155\343\230\323\144\047\254
\110\176\050\167\134\306\045\141\045\370\205\014\145\372\304\062
\057\245\230\005\344\370\013\147\026\026\306\202\270\062\031\371
\371\271\171\334\037\315\353\257\253\016\335\033\333\105\344\172
\347\002\342\225\135\374\151\360\123\151\141\225\165\171\013\136
\125\346\070\034\224\251\131\063\236\310\161\164\171\177\121\211
\266\310\152\270\060\310\152\070\303\156\236\341\067\026\352\005
\142\114\133\022\107\355\247\264\263\130\126\307\111\363\177\022
\150\011\061\161\360\155\370\116\107\373\326\205\356\305\130\100
\031\244\035\247\371\113\103\067\334\150\132\117\317\353\302\144
\164\336\264\025\331\364\124\124\032\057\034\327\227\161\124\220
\216\331\040\235\123\053\177\253\217\342\352\060\274\120\067\357
\361\107\265\175\174\054\004\354\150\235\264\111\104\020\364\162
\113\034\144\347\374\346\153\220\335\151\175\151\375\000\126\245
\267\254\266\255\267\312\076\001\357\234
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "IdenTrust Public Sector Root CA 1"
Issuer: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
Serial Number:0a:01:42:80:00:00:01:45:23:cf:46:7c:00:00:00:02
Subject: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
Not Valid Before: Thu Jan 16 17:53:32 2014

Not Valid After : Mon Jan 16 17:53:32 2034
Fingerprint (SHA-256):
30:D0:89:5A:9A:44:8A:26:20:91:63:55:22:D1:F5:20:10:B5:86:7A:CA:E1:2C:78:EF:95:8F:D4:F4:38:9F:2F
Fingerprint (SHA1): BA:29:41:60:77:98:3F:F4:F3:EF:F2:31:05:3B:2E:EA:6D:4D:45:FD
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Public Sector Root CA 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\272\051\101\140\167\230\077\364\363\357\362\061\005\073\056\352
\155\115\105\375
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\067\006\245\260\374\211\235\272\364\153\214\032\144\315\325\272
END
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\052\060\050\006\003\125\004\003\023\041\111\144
\145\156\124\162\165\163\164\040\120\165\142\154\151\143\040\123
\145\143\164\157\162\040\122\157\157\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\012\001\102\200\000\000\001\105\043\317\106\174\000\000
\000\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Entrust Root Certification Authority - G2"
#
Issuer: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
Serial Number: 1246989352 (0x4a538c28)
Subject: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
Not Valid Before: Tue Jul 07 17:25:54 2009
Not Valid After : Sat Dec 07 17:55:54 2030
Fingerprint (SHA-256):
43:DF:57:74:B0:3E:7F:EF:5F:E4:0D:93:1A:7B:ED:F1:BB:2E:6B:42:73:8C:4E:6D:38:41:10:3D:3A:A7:F3:39
Fingerprint (SHA1): 8C:F4:27:FD:79:0C:3A:D1:66:06:8D:E8:1E:57:EF:BB:93:22:72:D4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\060\071\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
\060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\060\071\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
\060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\112\123\214\050
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\076\060\202\003\046\240\003\002\001\002\002\004\112
\123\214\050\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\201\276\061\013\060\011\006\003\125\004\006\023\002
\125\123\061\026\060\024\006\003\125\004\012\023\015\105\156\164
\162\165\163\164\054\040\111\156\143\056\061\050\060\046\006\003
\125\004\013\023\037\123\145\145\040\167\167\167\056\145\156\164
\162\165\163\164\056\156\145\164\057\154\145\147\141\154\055\164
\145\162\155\163\061\071\060\067\006\003\125\004\013\023\060\050
\143\051\040\062\060\060\071\040\105\156\164\162\165\163\164\054
\040\111\156\143\056\040\055\040\146\157\162\040\141\165\164\150

\157\162\151\172\145\144\040\165\163\145\040\157\156\154\171\061
\062\060\060\006\003\125\004\003\023\051\105\156\164\162\165\163
\164\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\055
\040\107\062\060\036\027\015\060\071\060\067\060\067\061\067\062
\065\065\064\132\027\015\063\060\061\062\060\067\061\067\065\065
\065\064\132\060\201\276\061\013\060\011\006\003\125\004\006\023
\002\125\123\061\026\060\024\006\003\125\004\012\023\015\105\156
\164\162\165\163\164\054\040\111\156\143\056\061\050\060\046\006
\003\125\004\013\023\037\123\145\145\040\167\167\167\056\145\156
\164\162\165\163\164\056\156\145\164\057\154\145\147\141\154\055
\164\145\162\155\163\061\071\060\067\006\003\125\004\013\023\060
\050\143\051\040\062\060\060\071\040\105\156\164\162\165\163\164
\054\040\111\156\143\056\040\055\040\146\157\162\040\141\165\164
\150\157\162\151\172\145\144\040\165\163\145\040\157\156\154\171
\061\062\060\060\006\003\125\004\003\023\051\105\156\164\162\165
\163\164\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040
\055\040\107\062\060\202\001\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012
\002\202\001\001\000\272\204\266\162\333\236\014\153\342\231\351
\060\001\247\166\352\062\270\225\101\032\311\332\141\116\130\162
\317\376\366\202\171\277\163\141\006\012\245\047\330\263\137\323
\105\116\034\162\326\116\062\362\162\212\017\367\203\031\320\152
\200\200\000\105\036\260\307\347\232\277\022\127\047\034\243\150
\057\012\207\275\152\153\016\136\145\363\034\167\325\324\205\215
\160\041\264\263\062\347\213\242\325\206\071\002\261\270\322\107
\316\344\311\111\304\073\247\336\373\124\175\127\276\360\350\156
\302\171\262\072\013\125\342\120\230\026\062\023\134\057\170\126
\301\302\224\263\362\132\344\047\232\237\044\327\306\354\320\233
\045\202\343\314\302\304\105\305\214\227\172\006\153\052\021\237
\251\012\156\110\073\157\333\324\021\031\102\367\217\007\277\365
\123\137\234\076\364\027\054\346\151\254\116\062\114\142\167\352
\267\350\345\273\064\274\031\213\256\234\121\347\267\176\265\123
\261\063\042\345\155\317\160\074\032\372\342\233\147\266\203\364
\215\245\257\142\114\115\340\130\254\144\064\022\003\370\266\215
\224\143\044\244\161\002\003\001\000\001\243\102\060\100\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\017
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060
\035\006\003\125\035\016\004\026\004\024\152\162\046\172\320\036
\357\175\347\073\151\121\324\154\215\237\220\022\146\253\060\015
\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202\001
\001\000\171\237\035\226\306\266\171\077\042\215\207\323\207\003
\004\140\152\153\232\056\131\211\163\021\254\103\321\365\023\377
\215\071\053\300\362\275\117\160\214\251\057\352\027\304\013\124
\236\324\033\226\230\063\074\250\255\142\242\000\166\253\131\151
\156\006\035\176\304\271\104\215\230\257\022\324\141\333\012\031
\106\107\363\353\367\143\301\100\005\100\245\322\267\364\265\232

\066\277\251\210\166\210\004\125\004\053\234\207\177\032\067\074
\176\055\245\032\330\324\211\136\312\275\254\075\154\330\155\257
\325\363\166\017\315\073\210\070\042\235\154\223\232\304\075\277
\202\033\145\077\246\017\135\252\374\345\262\025\312\265\255\306
\274\075\320\204\350\352\006\162\260\115\071\062\170\277\076\021
\234\013\244\235\232\041\363\360\233\013\060\170\333\301\334\207
\103\376\274\143\232\312\305\302\034\311\307\215\377\073\022\130
\010\346\266\075\354\172\054\116\373\203\226\316\014\074\151\207
\124\163\244\163\302\223\377\121\020\254\025\124\001\330\374\005
\261\211\241\177\164\203\232\111\327\334\116\173\212\110\157\213
\105\366
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Entrust Root Certification Authority - G2"
Issuer: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
Serial Number: 1246989352 (0x4a538c28)
Subject: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
Not Valid Before: Tue Jul 07 17:25:54 2009
Not Valid After : Sat Dec 07 17:55:54 2030
Fingerprint (SHA-256):
43:DF:57:74:B0:3E:7F:EF:5F:E4:0D:93:1A:7B:ED:F1:BB:2E:6B:42:73:8C:4E:6D:38:41:10:3D:3A:A7:F3:39
Fingerprint (SHA1): 8C:F4:27:FD:79:0C:3A:D1:66:06:8D:E8:1E:57:EF:BB:93:22:72:D4
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\214\364\047\375\171\014\072\321\146\006\215\350\036\127\357\273
\223\042\162\324
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\113\342\311\221\226\145\014\364\016\132\223\222\240\012\376\262
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\060\071\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162

\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
\060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\112\123\214\050
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Entrust Root Certification Authority - EC1"
#
Issuer: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
Serial Number:00:a6:8b:79:29:00:00:00:00:50:d0:91:f9
Subject: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
Not Valid Before: Tue Dec 18 15:25:36 2012
Not Valid After : Fri Dec 18 15:55:36 2037
Fingerprint (SHA-256):
02:ED:0E:B2:8C:14:DA:45:16:5C:56:67:91:70:0D:64:51:D7:FB:56:F0:B2:AB:1D:3B:8E:B0:70:E5:6E:DF:F5
Fingerprint (SHA1): 20:D8:06:40:DF:9B:25:F5:12:25:3A:11:EA:F7:59:8A:EB:14:B5:47
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - EC1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\277\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\061\062\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\063\060
\061\006\003\125\004\003\023\052\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\105
\103\061
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\277\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\061\062\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\063\060
\061\006\003\125\004\003\023\052\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\105
\103\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\000\246\213\171\051\000\000\000\000\120\320\221\371
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\371\060\202\002\200\240\003\002\001\002\002\015\000
\246\213\171\051\000\000\000\000\120\320\221\371\060\012\006\010
\052\206\110\316\075\004\003\003\060\201\277\061\013\060\011\006
\003\125\004\006\023\002\125\123\061\026\060\024\006\003\125\004
\012\023\015\105\156\164\162\165\163\164\054\040\111\156\143\056
\061\050\060\046\006\003\125\004\013\023\037\123\145\145\040\167
\167\167\056\145\156\164\162\165\163\164\056\156\145\164\057\154
\145\147\141\154\055\164\145\162\155\163\061\071\060\067\006\003
\125\004\013\023\060\050\143\051\040\062\060\061\062\040\105\156
\164\162\165\163\164\054\040\111\156\143\056\040\055\040\146\157
\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163\145
\040\157\156\154\171\061\063\060\061\006\003\125\004\003\023\052
\105\156\164\162\165\163\164\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171\040\055\040\105\103\061\060\036\027\015\061\062
\061\062\061\070\061\065\062\065\063\066\132\027\015\063\067\061
\062\061\070\061\065\065\065\063\066\132\060\201\277\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\026\060\024\006\003
\125\004\012\023\015\105\156\164\162\165\163\164\054\040\111\156
\143\056\061\050\060\046\006\003\125\004\013\023\037\123\145\145
\040\167\167\167\056\145\156\164\162\165\163\164\056\156\145\164
\057\154\145\147\141\154\055\164\145\162\155\163\061\071\060\067
\006\003\125\004\013\023\060\050\143\051\040\062\060\061\062\040
\105\156\164\162\165\163\164\054\040\111\156\143\056\040\055\040
\146\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165
\163\145\040\157\156\154\171\061\063\060\061\006\003\125\004\003
\023\052\105\156\164\162\165\163\164\040\122\157\157\164\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164

\150\157\162\151\164\171\040\055\040\105\103\061\060\166\060\020
\006\007\052\206\110\316\075\002\001\006\005\053\201\004\000\042
\003\142\000\004\204\023\311\320\272\155\101\173\342\154\320\353
\125\137\146\002\032\044\364\133\211\151\107\343\270\302\175\361
\362\002\305\237\240\366\133\325\213\006\031\206\117\123\020\155
\007\044\047\241\240\370\325\107\031\141\114\175\312\223\047\352
\164\014\357\157\226\011\376\143\354\160\135\066\255\147\167\256
\311\235\174\125\104\072\242\143\121\037\365\343\142\324\251\107
\007\076\314\040\243\102\060\100\060\016\006\003\125\035\017\001
\001\377\004\004\003\002\001\006\060\017\006\003\125\035\023\001
\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016
\004\026\004\024\267\143\347\032\335\215\351\010\246\125\203\244
\340\152\120\101\145\021\102\111\060\012\006\010\052\206\110\316
\075\004\003\003\003\147\000\060\144\002\060\141\171\330\345\102
\107\337\034\256\123\231\027\266\157\034\175\341\277\021\224\321
\003\210\165\344\215\211\244\212\167\106\336\155\141\357\002\365
\373\265\337\314\376\116\377\376\251\346\247\002\060\133\231\327
\205\067\006\265\173\010\375\353\047\213\112\224\371\341\372\247
\216\046\010\350\174\222\150\155\163\330\157\046\254\041\002\270
\231\267\046\101\133\045\140\256\320\110\032\356\006
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Entrust Root Certification Authority - EC1"
Issuer: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
Serial Number:00:a6:8b:79:29:00:00:00:00:50:d0:91:f9
Subject: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
Not Valid Before: Tue Dec 18 15:25:36 2012
Not Valid After : Fri Dec 18 15:55:36 2037
Fingerprint (SHA-256):
02:ED:0E:B2:8C:14:DA:45:16:5C:56:67:91:70:0D:64:51:D7:FB:56:F0:B2:AB:1D:3B:8E:B0:70:E5:6E:DF:F5
Fingerprint (SHA1): 20:D8:06:40:DF:9B:25:F5:12:25:3A:11:EA:F7:59:8A:EB:14:B5:47
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - EC1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\040\330\006\100\337\233\045\365\022\045\072\021\352\367\131\212
\353\024\265\107
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\266\176\035\360\130\305\111\154\044\073\075\355\230\030\355\274
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\277\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\061\062\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\063\060
\061\006\003\125\004\003\023\052\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\105
\103\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\000\246\213\171\051\000\000\000\000\120\320\221\371
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "CFCA EV ROOT"
#
Issuer: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
Serial Number: 407555286 (0x184accd6)
Subject: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
Not Valid Before: Wed Aug 08 03:07:01 2012
Not Valid After : Mon Dec 31 03:07:01 2029
Fingerprint (SHA-256):
5C:C3:D7:8E:4E:1D:5E:45:54:7A:04:E6:87:3E:64:F9:0C:F9:53:6D:1C:CC:2E:F8:00:F3:55:C4:C5:FD:70:FD
Fingerprint (SHA1): E2:B8:29:4B:55:84:AB:6B:58:C2:90:46:6C:AC:3F:B8:39:8F:84:83
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CFCA EV ROOT"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\126\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\060\060\056\006\003\125\004\012\014\047\103\150\151\156\141\040
\106\151\156\141\156\143\151\141\154\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\061\025\060\023\006\003\125\004\003\014\014\103\106\103\101
\040\105\126\040\122\117\117\124
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\126\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\060\060\056\006\003\125\004\012\014\047\103\150\151\156\141\040
\106\151\156\141\156\143\151\141\154\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\061\025\060\023\006\003\125\004\003\014\014\103\106\103\101
\040\105\126\040\122\117\117\124
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\030\112\314\326
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\215\060\202\003\165\240\003\002\001\002\002\004\030
\112\314\326\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\126\061\013\060\011\006\003\125\004\006\023\002\103
\116\061\060\060\056\006\003\125\004\012\014\047\103\150\151\156
\141\040\106\151\156\141\156\143\151\141\154\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\061\025\060\023\006\003\125\004\003\014\014\103\106
\103\101\040\105\126\040\122\117\117\124\060\036\027\015\061\062
\060\070\060\070\060\063\060\067\060\061\132\027\015\062\071\061
\062\063\061\060\063\060\067\060\061\132\060\126\061\013\060\011
\006\003\125\004\006\023\002\103\116\061\060\060\056\006\003\125
\004\012\014\047\103\150\151\156\141\040\106\151\156\141\156\143
\151\141\154\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\025\060\023\006
\003\125\004\003\014\014\103\106\103\101\040\105\126\040\122\117
\117\124\060\202\002\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202
\002\001\000\327\135\153\315\020\077\037\005\131\325\005\115\067
\261\016\354\230\053\216\025\035\372\223\113\027\202\041\161\020
\122\327\121\144\160\026\302\125\151\115\216\025\155\237\277\014
\033\302\340\243\147\326\014\254\317\042\256\257\167\124\052\113
\114\212\123\122\172\303\356\056\336\263\161\045\301\351\135\075
\356\241\057\243\367\052\074\311\043\035\152\253\035\241\247\361
\363\354\240\325\104\317\025\317\162\057\035\143\227\350\231\371
\375\223\244\124\200\114\122\324\122\253\056\111\337\220\315\270
\137\276\077\336\241\312\115\040\324\045\350\204\051\123\267\261
\210\037\377\372\332\220\237\012\251\055\101\077\261\361\030\051
\356\026\131\054\064\111\032\250\006\327\250\210\322\003\162\172
\062\342\352\150\115\156\054\226\145\173\312\131\372\362\342\335
\356\060\054\373\314\106\254\304\143\353\157\177\066\053\064\163
\022\224\177\337\314\046\236\361\162\135\120\145\131\217\151\263
\207\136\062\157\303\030\212\265\225\217\260\172\067\336\132\105
\073\307\066\341\357\147\321\071\323\227\133\163\142\031\110\055
\207\034\006\373\164\230\040\111\163\360\005\322\033\261\240\243
\267\033\160\323\210\151\271\132\326\070\364\142\334\045\213\170

\277\370\350\176\270\134\311\225\117\137\247\055\271\040\153\317
\153\335\365\015\364\202\267\364\262\146\056\020\050\366\227\132
\173\226\026\217\001\031\055\154\156\177\071\130\006\144\203\001
\203\203\303\115\222\335\062\306\207\244\067\351\026\316\252\055
\150\257\012\201\145\072\160\301\233\255\115\155\124\312\052\055
\113\205\033\263\200\346\160\105\015\153\136\065\360\177\073\270
\234\344\004\160\211\022\045\223\332\012\231\042\140\152\143\140
\116\166\006\230\116\275\203\255\035\130\212\045\205\322\307\145
\036\055\216\306\337\266\306\341\177\212\004\041\025\051\164\360
\076\234\220\235\014\056\361\212\076\132\252\014\011\036\307\325
\074\243\355\227\303\036\064\372\070\371\010\016\343\300\135\053
\203\321\126\152\311\266\250\124\123\056\170\062\147\075\202\177
\164\320\373\341\266\005\140\271\160\333\216\013\371\023\130\157
\161\140\020\122\020\271\301\101\011\357\162\037\147\061\170\377
\226\005\215\002\003\001\000\001\243\143\060\141\060\037\006\003
\125\035\043\004\030\060\026\200\024\343\376\055\375\050\320\013
\265\272\266\242\304\277\006\252\005\214\223\373\057\060\017\006
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\035
\006\003\125\035\016\004\026\004\024\343\376\055\375\050\320\013
\265\272\266\242\304\277\006\252\005\214\223\373\057\060\015\006
\011\052\206\110\206\367\015\001\001\013\005\000\003\202\002\001
\000\045\306\272\153\353\207\313\336\202\071\226\075\360\104\247
\153\204\163\003\336\235\053\117\272\040\177\274\170\262\317\227
\260\033\234\363\327\171\056\365\110\266\322\373\027\210\346\323
\172\077\355\123\023\320\342\057\152\171\313\000\043\050\346\036
\067\127\065\211\204\302\166\117\064\066\255\147\303\316\101\006
\210\305\367\356\330\032\270\326\013\177\120\377\223\252\027\113
\214\354\355\122\140\262\244\006\352\116\353\364\153\031\375\353
\365\032\340\045\052\232\334\307\101\066\367\310\164\005\204\071
\225\071\326\013\073\244\047\372\010\330\134\036\370\004\140\122
\021\050\050\003\377\357\123\146\000\245\112\064\026\146\174\375
\011\244\256\236\147\032\157\101\013\153\006\023\233\217\206\161
\005\264\057\215\211\146\063\051\166\124\232\021\370\047\372\262
\077\221\340\316\015\033\363\060\032\255\277\042\135\033\323\277
\045\005\115\341\222\032\177\231\237\074\104\223\312\324\100\111
\154\200\207\327\004\072\303\062\122\065\016\126\370\245\335\175
\304\213\015\021\037\123\313\036\262\027\266\150\167\132\340\324
\313\310\007\256\365\072\056\216\067\267\320\001\113\103\051\167
\214\071\227\217\202\132\370\121\345\211\240\030\347\150\177\135
\012\056\373\243\107\016\075\246\043\172\306\001\307\217\310\136
\277\155\200\126\276\212\044\272\063\352\237\341\062\021\236\361
\322\117\200\366\033\100\257\070\236\021\120\171\163\022\022\315
\346\154\235\054\210\162\074\060\201\006\221\042\352\131\255\332
\031\056\042\302\215\271\214\207\340\146\274\163\043\137\041\144
\143\200\110\365\240\074\030\075\224\310\110\101\035\100\272\136
\376\376\126\071\241\310\317\136\236\031\144\106\020\332\027\221
\267\005\200\254\213\231\222\175\347\242\330\007\013\066\047\347

\110\171\140\212\303\327\023\134\370\162\100\337\112\313\317\231
\000\012\000\013\021\225\332\126\105\003\210\012\237\147\320\325
\171\261\250\215\100\155\015\302\172\100\372\363\137\144\107\222
\313\123\271\273\131\316\117\375\320\025\123\001\330\337\353\331
\346\166\357\320\043\273\073\251\171\263\325\002\051\315\211\243
\226\017\112\065\347\116\102\300\165\315\007\317\346\054\353\173
\056
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "CFCA EV ROOT"
Issuer: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
Serial Number: 407555286 (0x184accd6)
Subject: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
Not Valid Before: Wed Aug 08 03:07:01 2012
Not Valid After : Mon Dec 31 03:07:01 2029
Fingerprint (SHA-256):
5C:C3:D7:8E:4E:1D:5E:45:54:7A:04:E6:87:3E:64:F9:0C:F9:53:6D:1C:CC:2E:F8:00:F3:55:C4:C5:FD:70:FD
Fingerprint (SHA1): E2:B8:29:4B:55:84:AB:6B:58:C2:90:46:6C:AC:3F:B8:39:8F:84:83
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CFCA EV ROOT"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\342\270\051\113\125\204\253\153\130\302\220\106\154\254\077\270
\071\217\204\203
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\164\341\266\355\046\172\172\104\060\063\224\253\173\047\201\060
END
CKA_ISSUER MULTILINE_OCTAL
\060\126\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\060\060\056\006\003\125\004\012\014\047\103\150\151\156\141\040
\106\151\156\141\156\143\151\141\154\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\061\025\060\023\006\003\125\004\003\014\014\103\106\103\101
\040\105\126\040\122\117\117\124
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\030\112\314\326
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

```
#
# Certificate "OISTE WISeKey Global Root GB CA"
#
# Issuer: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Serial Number:76:b1:20:52:74:f0:85:87:46:b3:f8:23:1a:f6:c2:c0
# Subject: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Not Valid Before: Mon Dec 01 15:00:32 2014
# Not Valid After : Thu Dec 01 15:10:31 2039
# Fingerprint (SHA-256):
6B:9C:08:E8:6E:B0:F7:67:CF:AD:65:CD:98:B6:21:49:E5:49:4A:67:F5:84:5E:7B:D1:ED:01:9F:27:B8:6B:D6
# Fingerprint (SHA1): 0F:F9:40:76:18:D3:D7:6A:4B:98:F0:A8:35:9E:0C:FD:27:AC:CC:ED
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GB CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145
\171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\102\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145
\171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\102\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\166\261\040\122\164\360\205\207\106\263\370\043\032\366
\302\300
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\265\060\202\002\235\240\003\002\001\002\002\020\166
\261\040\122\164\360\205\207\106\263\370\043\032\366\302\300\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\155
\061\013\060\011\006\003\125\004\006\023\002\103\110\061\020\060
\016\006\003\125\004\012\023\007\127\111\123\145\113\145\171\061
\042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040
```

\106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
\163\145\144\061\050\060\046\006\003\125\004\003\023\037\117\111
\123\124\105\040\127\111\123\145\113\145\171\040\107\154\157\142
\141\154\040\122\157\157\164\040\107\102\040\103\101\060\036\027
\015\061\064\061\062\060\061\061\065\060\060\063\062\132\027\015
\063\071\061\062\060\061\061\065\061\060\063\061\132\060\155\061
\013\060\011\006\003\125\004\006\023\002\103\110\061\020\060\016
\006\003\125\004\012\023\007\127\111\123\145\113\145\171\061\042
\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040\106
\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162\163
\145\144\061\050\060\046\006\003\125\004\003\023\037\117\111\123
\124\105\040\127\111\123\145\113\145\171\040\107\154\157\142\141
\154\040\122\157\157\164\040\107\102\040\103\101\060\202\001\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\001\017\000\060\202\001\012\002\202\001\001\000\330\027\267
\034\112\044\052\326\227\261\312\342\036\373\175\070\357\230\365
\262\071\230\116\047\270\021\135\173\322\045\224\210\202\025\046
\152\033\061\273\250\133\041\041\053\330\017\116\237\132\361\261
\132\344\171\326\062\043\053\341\123\314\231\105\134\173\117\255
\274\277\207\112\013\113\227\132\250\366\110\354\175\173\015\315
\041\006\337\236\025\375\101\212\110\267\040\364\241\172\033\127
\324\135\120\377\272\147\330\043\231\037\310\077\343\336\377\157
\133\167\261\153\156\270\311\144\367\341\312\101\106\016\051\161
\320\271\043\374\311\201\137\116\367\157\337\277\204\255\163\144
\273\267\102\216\151\366\324\166\035\176\235\247\270\127\212\121
\147\162\327\324\250\270\225\124\100\163\003\366\352\364\353\376
\050\102\167\077\235\043\033\262\266\075\200\024\007\114\056\117
\367\325\012\026\015\275\146\103\067\176\043\103\171\303\100\206
\365\114\051\332\216\232\255\015\245\004\207\210\036\205\343\351
\123\325\233\310\213\003\143\170\353\340\031\112\156\273\057\153
\063\144\130\223\255\151\277\217\033\357\202\110\307\002\003\001
\000\001\243\121\060\117\060\013\006\003\125\035\017\004\004\003
\002\001\206\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024\065
\017\310\066\143\136\342\243\354\371\073\146\025\316\121\122\343
\221\232\075\060\020\006\011\053\006\001\004\001\202\067\025\001
\004\003\002\001\000\060\015\006\011\052\206\110\206\367\015\001
\001\013\005\000\003\202\001\001\000\100\114\373\207\262\231\201
\220\176\235\305\260\260\046\315\210\173\053\062\215\156\270\041
\161\130\227\175\256\067\024\257\076\347\367\232\342\175\366\161
\230\231\004\252\103\164\170\243\343\111\141\076\163\214\115\224
\340\371\161\304\266\026\016\123\170\037\326\242\207\057\002\071
\201\051\074\257\025\230\041\060\376\050\220\000\214\321\341\313
\372\136\310\375\370\020\106\073\242\170\102\221\027\164\125\012
\336\120\147\115\146\321\247\377\375\331\300\265\250\243\212\316
\146\365\017\103\315\247\053\127\173\143\106\152\252\056\122\330
\364\355\341\155\255\051\220\170\110\272\341\043\252\243\211\354
\265\253\226\300\264\113\242\035\227\236\172\362\156\100\161\337

\150\361\145\115\316\174\005\337\123\145\251\245\360\261\227\004
\160\025\106\003\230\324\322\277\124\264\240\130\175\122\157\332
\126\046\142\324\330\333\211\061\157\034\360\042\302\323\142\034
\065\315\114\151\025\124\032\220\230\336\353\036\137\312\167\307
\313\216\075\103\151\234\232\130\320\044\073\337\033\100\226\176
\065\255\201\307\116\161\272\210\023
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "OISTE WISeKey Global Root GB CA"
Issuer: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
Serial Number:76:b1:20:52:74:f0:85:87:46:b3:f8:23:1a:f6:c2:c0
Subject: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
Not Valid Before: Mon Dec 01 15:00:32 2014
Not Valid After : Thu Dec 01 15:10:31 2039
Fingerprint (SHA-256):
6B:9C:08:E8:6E:B0:F7:67:CF:AD:65:CD:98:B6:21:49:E5:49:4A:67:F5:84:5E:7B:D1:ED:01:9F:27:B8:6B:D6
Fingerprint (SHA1): 0F:F9:40:76:18:D3:D7:6A:4B:98:F0:A8:35:9E:0C:FD:27:AC:CC:ED
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GB CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\017\371\100\166\030\323\327\152\113\230\360\250\065\236\014\375
\047\254\314\355
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\244\353\271\141\050\056\267\057\230\260\065\046\220\231\121\035
END
CKA_ISSUER MULTILINE_OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145
\171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\102\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\166\261\040\122\164\360\205\207\106\263\370\043\032\366
\302\300
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "SZAFIR ROOT CA2"
#
Issuer: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
Serial Number:3e:8a:5d:07:ec:55:d2:32:d5:b7:e3:b6:5f:01:eb:2d:dc:e4:d6:e4
Subject: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
Not Valid Before: Mon Oct 19 07:43:30 2015
Not Valid After : Fri Oct 19 07:43:30 2035
Fingerprint (SHA-256):
A1:33:9D:33:28:1A:0B:56:E5:57:D3:D3:2B:1C:E7:F9:36:7E:B0:94:BD:5F:A7:2A:7E:50:04:C8:DE:D7:CA:FE
Fingerprint (SHA1): E2:52:FA:95:3F:ED:DB:24:60:BD:6E:28:F3:9C:CC:CF:5E:B3:3F:DE
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SZAFIR ROOT CA2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\050\060\046\006\003\125\004\012\014\037\113\162\141\152\157\167
\141\040\111\172\142\141\040\122\157\172\154\151\143\172\145\156
\151\157\167\141\040\123\056\101\056\061\030\060\026\006\003\125
\004\003\014\017\123\132\101\106\111\122\040\122\117\117\124\040
\103\101\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\050\060\046\006\003\125\004\012\014\037\113\162\141\152\157\167
\141\040\111\172\142\141\040\122\157\172\154\151\143\172\145\156
\151\157\167\141\040\123\056\101\056\061\030\060\026\006\003\125
\004\003\014\017\123\132\101\106\111\122\040\122\117\117\124\040
\103\101\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\076\212\135\007\354\125\322\062\325\267\343\266\137\001
\353\055\334\344\326\344
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\162\060\202\002\132\240\003\002\001\002\002\024\076
\212\135\007\354\125\322\062\325\267\343\266\137\001\353\055\334
\344\326\344\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\121\061\013\060\011\006\003\125\004\006\023\002\120
\114\061\050\060\046\006\003\125\004\012\014\037\113\162\141\152
\157\167\141\040\111\172\142\141\040\122\157\172\154\151\143\172
\145\156\151\157\167\141\040\123\056\101\056\061\030\060\026\006

\003\125\004\003\014\017\123\132\101\106\111\122\040\122\117\117
\124\040\103\101\062\060\036\027\015\061\065\061\060\061\071\060
\067\064\063\063\060\132\027\015\063\065\061\060\061\071\060\067
\064\063\063\060\132\060\121\061\013\060\011\006\003\125\004\006
\023\002\120\114\061\050\060\046\006\003\125\004\012\014\037\113
\162\141\152\157\167\141\040\111\172\142\141\040\122\157\172\154
\151\143\172\145\156\151\157\167\141\040\123\056\101\056\061\030
\060\026\006\003\125\004\003\014\017\123\132\101\106\111\122\040
\122\117\117\124\040\103\101\062\060\202\001\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000
\060\202\001\012\002\202\001\001\000\267\274\076\120\250\113\315
\100\265\316\141\347\226\312\264\241\332\014\042\260\372\265\173
\166\000\167\214\013\317\175\250\206\314\046\121\344\040\075\205
\014\326\130\343\347\364\052\030\235\332\321\256\046\356\353\123
\334\364\220\326\023\112\014\220\074\303\364\332\322\216\015\222
\072\334\261\261\377\070\336\303\272\055\137\200\271\002\275\112
\235\033\017\264\303\302\301\147\003\335\334\033\234\075\263\260
\336\000\036\250\064\107\273\232\353\376\013\024\275\066\204\332
\015\040\277\372\133\313\251\026\040\255\071\140\356\057\165\266
\347\227\234\371\076\375\176\115\157\115\057\357\210\015\152\372
\335\361\075\156\040\245\240\022\264\115\160\271\316\327\162\073
\211\223\247\200\204\034\047\111\162\111\265\377\073\225\236\301
\314\310\001\354\350\016\212\012\226\347\263\246\207\345\326\371
\005\053\015\227\100\160\074\272\254\165\132\234\325\115\235\002
\012\322\113\233\146\113\106\007\027\145\255\237\154\210\000\334
\042\211\340\341\144\324\147\274\061\171\141\074\273\312\101\315
\134\152\000\310\074\070\216\130\257\002\003\001\000\001\243\102
\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060\003
\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\006\060\035\006\003\125\035\016\004\026\004\024\056\026
\251\112\030\265\313\314\365\157\120\363\043\137\370\135\347\254
\360\310\060\015\006\011\052\206\110\206\367\015\001\001\013\005
\000\003\202\001\001\000\265\163\370\003\334\131\133\035\166\351
\243\052\173\220\050\262\115\300\063\117\252\232\261\324\270\344
\047\377\251\226\231\316\106\340\155\174\114\242\070\244\006\160
\360\364\101\021\354\077\107\215\077\162\207\371\073\375\244\157
\053\123\000\340\377\071\271\152\007\016\353\035\034\366\242\162
\220\313\202\075\021\202\213\322\273\237\052\257\041\346\143\206
\235\171\031\357\367\273\014\065\220\303\212\355\117\017\365\314
\022\331\244\076\273\240\374\040\225\137\117\046\057\021\043\203
\116\165\007\017\277\233\321\264\035\351\020\004\376\312\140\217
\242\114\270\255\317\341\220\017\315\256\012\307\135\173\267\120
\322\324\141\372\325\025\333\327\237\207\121\124\353\245\343\353
\311\205\240\045\040\067\373\216\316\014\064\204\341\074\201\262
\167\116\103\245\210\137\206\147\241\075\346\264\134\141\266\076
\333\376\267\050\305\242\007\256\265\312\312\215\052\022\357\227
\355\302\060\244\311\052\172\373\363\115\043\033\231\063\064\240
\056\365\251\013\077\324\135\341\317\204\237\342\031\302\137\212

\326\040\036\343\163\267
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "SZAFIR ROOT CA2"
Issuer: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
Serial Number:3e:8a:5d:07:ec:55:d2:32:d5:b7:e3:b6:5f:01:eb:2d:dc:e4:d6:e4
Subject: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
Not Valid Before: Mon Oct 19 07:43:30 2015
Not Valid After : Fri Oct 19 07:43:30 2035
Fingerprint (SHA-256):
A1:33:9D:33:28:1A:0B:56:E5:57:D3:D3:2B:1C:E7:F9:36:7E:B0:94:BD:5F:A7:2A:7E:50:04:C8:DE:D7:CA:FE
Fingerprint (SHA1): E2:52:FA:95:3F:ED:DB:24:60:BD:6E:28:F3:9C:CC:CF:5E:B3:3F:DE
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SZAFIR ROOT CA2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\342\122\372\225\077\355\333\044\140\275\156\050\363\234\314\317
\136\263\077\336
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\021\144\301\211\260\044\261\214\261\007\176\211\236\121\236\231
END
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\050\060\046\006\003\125\004\012\014\037\113\162\141\152\157\167
\141\040\111\172\142\141\040\122\157\172\154\151\143\172\145\156
\151\157\167\141\040\123\056\101\056\061\030\060\026\006\003\125
\004\003\014\017\123\132\101\106\111\122\040\122\117\117\124\040
\103\101\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\076\212\135\007\354\125\322\062\325\267\343\266\137\001
\353\055\334\344\326\344
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Certum Trusted Network CA 2"
#
Issuer: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies

S.A.,C=PL
Serial Number:21:d6:d0:4a:4f:25:0f:c9:32:37:fc:aa:5e:12:8d:e9
Subject: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
Not Valid Before: Thu Oct 06 08:39:56 2011
Not Valid After : Sat Oct 06 08:39:56 2046
Fingerprint (SHA-256): B6:76:F2:ED:DA:E8:77:5C:D3:6C:B0:F6:3C:D1:D4:60:39:61:F4:9E:62:65:BA:01:3A:2F:03:07:B6:D0:B8:04
Fingerprint (SHA1): D3:DD:48:3E:2B:BF:4C:05:E8:AF:10:F5:FA:76:26:CF:D3:DC:30:92
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\200\061\013\060\011\006\003\125\004\006\023\002\120\114
\061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145
\164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103
\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\044\060
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\151\157\156\040\101\165\164\150\157\162\151\164\171\061\044\060
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CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Certum Trusted Network CA 2"
Issuer: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies

S.A.,C=PL
Serial Number:21:d6:d0:4a:4f:25:0f:c9:32:37:fc:aa:5e:12:8d:e9
Subject: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
Not Valid Before: Thu Oct 06 08:39:56 2011
Not Valid After : Sat Oct 06 08:39:56 2046
Fingerprint (SHA-256): B6:76:F2:ED:DA:E8:77:5C:D3:6C:B0:F6:3C:D1:D4:60:39:61:F4:9E:62:65:BA:01:3A:2F:03:07:B6:D0:B8:04
Fingerprint (SHA1): D3:DD:48:3E:2B:BF:4C:05:E8:AF:10:F5:FA:76:26:CF:D3:DC:30:92
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
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CKA_SERIAL_NUMBER MULTILINE_OCTAL
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CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Hellenic Academic and Research Institutions RootCA 2015"
#
Issuer: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
Serial Number: 0 (0x0)
Subject: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research

Institutions Cert. Authority,L=Athens,C=GR
Not Valid Before: Tue Jul 07 10:11:21 2015
Not Valid After : Sat Jun 30 10:11:21 2040
Fingerprint (SHA-256):
A0:40:92:9A:02:CE:53:B4:AC:F4:F2:FF:C6:98:1C:E4:49:6F:75:5E:6D:45:FE:0B:2A:69:2B:CD:52:52:3F:36
Fingerprint (SHA1): 01:0C:06:95:A6:98:19:14:FF:BF:5F:C6:B0:B6:95:EA:29:E9:12:A6
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2015"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
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\162\320\070\030\152\235\363\161\044\124\013\060\015\006\011\052
\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\165
\273\155\124\113\252\020\130\106\064\362\142\327\026\066\135\010
\136\325\154\310\207\275\264\056\106\362\061\370\174\352\102\265
\223\026\125\334\241\014\022\240\332\141\176\017\130\130\163\144
\162\307\350\105\216\334\251\362\046\077\306\171\214\261\123\010
\063\201\260\126\023\276\346\121\134\330\233\012\117\113\234\126
\123\002\351\117\366\015\140\352\115\102\125\350\174\033\041\041
\323\033\072\314\167\362\270\220\361\150\307\371\132\376\372\055
\364\277\311\365\105\033\316\070\020\052\067\212\171\243\264\343
\011\154\205\206\223\377\211\226\047\170\201\217\147\343\106\164
\124\216\331\015\151\342\112\364\115\164\003\377\262\167\355\225
\147\227\344\261\305\253\277\152\043\350\324\224\342\104\050\142
\304\113\342\360\330\342\051\153\032\160\176\044\141\223\173\117
\003\062\045\015\105\044\053\226\264\106\152\277\112\013\367\232
\217\301\254\032\305\147\363\157\064\322\372\163\143\214\357\026
\260\250\244\106\052\370\353\022\354\162\264\357\370\053\176\214
\122\300\213\204\124\371\057\076\343\125\250\334\146\261\331\341
\137\330\263\214\131\064\131\244\253\117\154\273\037\030\333\165
\253\330\313\222\315\224\070\141\016\007\006\037\113\106\020\361
\025\276\215\205\134\073\112\053\201\171\017\264\151\237\111\120
\227\115\367\016\126\135\300\225\152\302\066\303\033\150\311\365
\052\334\107\232\276\262\316\305\045\350\372\003\271\332\371\026
\156\221\204\365\034\050\310\374\046\314\327\034\220\126\247\137
\157\072\004\274\315\170\211\013\216\017\057\243\252\117\242\033
\022\075\026\010\100\017\361\106\114\327\252\173\010\301\012\365
\155\047\336\002\217\312\303\265\053\312\351\353\310\041\123\070
\245\314\073\330\167\067\060\242\117\331\157\321\362\100\255\101
\172\027\305\326\112\065\211\267\101\325\174\206\177\125\115\203
\112\245\163\040\300\072\257\220\361\232\044\216\331\216\161\312
\173\270\206\332\262\217\231\076\035\023\015\022\021\356\324\253
\360\351\025\166\002\344\340\337\252\040\036\133\141\205\144\100
\251\220\227\015\255\123\322\132\035\207\152\000\227\145\142\264
\276\157\152\247\365\054\102\355\062\255\266\041\236\276\274
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Hellenic Academic and Research Institutions RootCA 2015"
Issuer: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
Serial Number: 0 (0x0)
Subject: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
Not Valid Before: Tue Jul 07 10:11:21 2015
Not Valid After : Sat Jun 30 10:11:21 2040
Fingerprint (SHA-256):
A0:40:92:9A:02:CE:53:B4:AC:F4:F2:FF:C6:98:1C:E4:49:6F:75:5E:6D:45:FE:0B:2A:69:2B:CD:52:52:3F:36
Fingerprint (SHA1): 01:0C:06:95:A6:98:19:14:FF:BF:5F:C6:B0:B6:95:EA:29:E9:12:A6
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2015"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\001\014\006\225\246\230\031\024\377\277\137\306\260\266\225\352
\051\351\022\246
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\312\377\342\333\003\331\313\113\351\017\255\204\375\173\030\316
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\246\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151
\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165
\164\150\157\162\151\164\171\061\100\060\076\006\003\125\004\003
\023\067\110\145\154\154\145\156\151\143\040\101\143\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\165\164\151\157\156\163\040\122\157
\157\164\103\101\040\062\060\061\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Hellenic Academic and Research Institutions ECC RootCA 2015"
#

Issuer: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
Serial Number: 0 (0x0)
Subject: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
Not Valid Before: Tue Jul 07 10:37:12 2015
Not Valid After : Sat Jun 30 10:37:12 2040
Fingerprint (SHA-256):
44:B5:45:AA:8A:25:E6:5A:73:CA:15:DC:27:FC:36:D2:4C:1C:B9:95:3A:06:65:39:B1:15:82:DC:48:7B:48:33
Fingerprint (SHA1): 9F:F1:71:8D:92:D5:9A:F3:7D:74:97:B4:BC:6F:84:68:0B:BA:B6:66
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions ECC RootCA 2015"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\252\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151
\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165
\164\150\157\162\151\164\171\061\104\060\102\006\003\125\004\003
\023\073\110\145\154\154\145\156\151\143\040\101\143\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\165\164\151\157\156\163\040\105\103
\103\040\122\157\157\164\103\101\040\062\060\061\065
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\252\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151
\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165
\164\150\157\162\151\164\171\061\104\060\102\006\003\125\004\003
\023\073\110\145\154\154\145\156\151\143\040\101\143\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\165\164\151\157\156\163\040\105\103
\103\040\122\157\157\164\103\101\040\062\060\061\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\303\060\202\002\112\240\003\002\001\002\002\001\000

\060\012\006\010\052\206\110\316\075\004\003\002\060\201\252\061
\013\060\011\006\003\125\004\006\023\002\107\122\061\017\060\015
\006\003\125\004\007\023\006\101\164\150\145\156\163\061\104\060
\102\006\003\125\004\012\023\073\110\145\154\154\145\156\151\143
\040\101\143\141\144\145\155\151\143\040\141\156\144\040\122\145
\163\145\141\162\143\150\040\111\156\163\164\151\164\165\164\151
\157\156\163\040\103\145\162\164\056\040\101\165\164\150\157\162
\151\164\171\061\104\060\102\006\003\125\004\003\023\073\110\145
\154\154\145\156\151\143\040\101\143\141\144\145\155\151\143\040
\141\156\144\040\122\145\163\145\141\162\143\150\040\111\156\163
\164\151\164\165\164\151\157\156\163\040\105\103\103\040\122\157
\157\164\103\101\040\062\060\061\065\060\036\027\015\061\065\060
\067\060\067\061\060\063\067\061\062\132\027\015\064\060\060\066
\063\060\061\060\063\067\061\062\132\060\201\252\061\013\060\011
\006\003\125\004\006\023\002\107\122\061\017\060\015\006\003\125
\004\007\023\006\101\164\150\145\156\163\061\104\060\102\006\003
\125\004\012\023\073\110\145\154\154\145\156\151\143\040\101\143
\141\144\145\155\151\143\040\141\156\144\040\122\145\163\145\141
\162\143\150\040\111\156\163\164\151\164\165\164\151\157\156\163
\040\103\145\162\164\056\040\101\165\164\150\157\162\151\164\171
\061\104\060\102\006\003\125\004\003\023\073\110\145\154\154\145
\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144
\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164
\165\164\151\157\156\163\040\105\103\103\040\122\157\157\164\103
\101\040\062\060\061\065\060\166\060\020\006\007\052\206\110\316
\075\002\001\006\005\053\201\004\000\042\003\142\000\004\222\240
\101\350\113\202\204\134\342\370\061\021\231\206\144\116\011\045
\057\235\101\057\012\256\065\117\164\225\262\121\144\153\215\153
\346\077\160\225\360\005\104\107\246\162\070\120\166\225\002\132
\216\256\050\236\371\055\116\231\357\054\110\157\114\045\051\350
\321\161\133\337\035\301\165\067\264\327\372\173\172\102\234\152
\012\126\132\174\151\013\252\200\011\044\154\176\301\106\243\102
\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060\003
\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\006\060\035\006\003\125\035\016\004\026\004\024\264\042
\013\202\231\044\001\016\234\273\344\016\375\277\373\227\040\223
\231\052\060\012\006\010\052\206\110\316\075\004\003\002\003\147
\000\060\144\002\060\147\316\026\142\070\242\254\142\105\247\251
\225\044\300\032\047\234\062\073\300\300\325\272\251\347\370\004
\103\123\205\356\122\041\336\235\365\045\203\076\236\130\113\057
\327\147\023\016\041\002\060\005\341\165\001\336\150\355\052\037
\115\114\011\010\015\354\113\255\144\027\050\347\165\316\105\145
\162\041\027\313\042\101\016\214\023\230\070\232\124\155\233\312
\342\174\352\002\130\042\221
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Trust for "Hellenic Academic and Research Institutions ECC RootCA 2015"
# Issuer: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Not Valid Before: Tue Jul 07 10:37:12 2015
# Not Valid After : Sat Jun 30 10:37:12 2040
# Fingerprint (SHA-256):
44:B5:45:AA:8A:25:E6:5A:73:CA:15:DC:27:FC:36:D2:4C:1C:B9:95:3A:06:65:39:B1:15:82:DC:48:7B:48:33
# Fingerprint (SHA1): 9F:F1:71:8D:92:D5:9A:F3:7D:74:97:B4:BC:6F:84:68:0B:BA:B6:66
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions ECC RootCA 2015"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\237\361\161\215\222\325\232\363\175\164\227\264\274\157\204\150
\013\272\266\146
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\201\345\264\027\353\302\365\341\113\015\101\173\111\222\376\357
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\252\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151
\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165
\164\150\157\162\151\164\171\061\104\060\102\006\003\125\004\003
\023\073\110\145\154\154\145\156\151\143\040\101\143\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\165\164\151\157\156\163\040\105\103
\103\040\122\157\157\164\103\101\040\062\060\061\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "ISRG Root X1"
#
```

Issuer: CN=ISRG Root X1,O=Internet Security Research Group,C=US
Serial Number:00:82:10:cf:b0:d2:40:e3:59:44:63:e0:bb:63:82:8b:00
Subject: CN=ISRG Root X1,O=Internet Security Research Group,C=US
Not Valid Before: Thu Jun 04 11:04:38 2015
Not Valid After : Mon Jun 04 11:04:38 2035
Fingerprint (SHA-256):
96:BC:EC:06:26:49:76:F3:74:60:77:9A:CF:28:C5:A7:CF:E8:A3:C0:AA:E1:1A:8F:FC:EE:05:C0:BD:DF:08:C6
Fingerprint (SHA1): CA:BD:2A:79:A1:07:6A:31:F2:1D:25:36:35:CB:03:9D:43:29:A5:E8
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\202\020\317\260\322\100\343\131\104\143\340\273\143
\202\213\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\153\060\202\003\123\240\003\002\001\002\002\021\000
\202\020\317\260\322\100\343\131\104\143\340\273\143\202\213\000
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061\051
\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156\145
\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145\141
\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003\125
\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130\061
\060\036\027\015\061\065\060\066\060\064\061\061\060\064\063\070
\132\027\015\063\065\060\066\060\064\061\061\060\064\063\070\132
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156

\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\061\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002
\001\000\255\350\044\163\364\024\067\363\233\236\053\127\050\034
\207\276\334\267\337\070\220\214\156\074\346\127\240\170\367\165
\302\242\376\365\152\156\366\000\117\050\333\336\150\206\154\104
\223\266\261\143\375\024\022\153\277\037\322\352\061\233\041\176
\321\063\074\272\110\365\335\171\337\263\270\377\022\361\041\232
\113\301\212\206\161\151\112\146\146\154\217\176\074\160\277\255
\051\042\006\363\344\300\346\200\256\342\113\217\267\231\176\224
\003\237\323\107\227\174\231\110\043\123\350\070\256\117\012\157
\203\056\321\111\127\214\200\164\266\332\057\320\070\215\173\003
\160\041\033\165\362\060\074\372\217\256\335\332\143\253\353\026
\117\302\216\021\113\176\317\013\350\377\265\167\056\364\262\173
\112\340\114\022\045\014\160\215\003\051\240\341\123\044\354\023
\331\356\031\277\020\263\112\214\077\211\243\141\121\336\254\207
\007\224\364\143\161\354\056\342\157\133\230\201\341\211\134\064
\171\154\166\357\073\220\142\171\346\333\244\232\057\046\305\320
\020\341\016\336\331\020\216\026\373\267\367\250\367\307\345\002
\007\230\217\066\010\225\347\342\067\226\015\066\165\236\373\016
\162\261\035\233\274\003\371\111\005\330\201\335\005\264\052\326
\101\351\254\001\166\225\012\017\330\337\325\275\022\037\065\057
\050\027\154\322\230\301\250\011\144\167\156\107\067\272\316\254
\131\136\150\235\177\162\326\211\305\006\101\051\076\131\076\335
\046\365\044\311\021\247\132\243\114\100\037\106\241\231\265\247
\072\121\156\206\073\236\175\162\247\022\005\170\131\355\076\121
\170\025\013\003\217\215\320\057\005\262\076\173\112\034\113\163
\005\022\374\306\352\340\120\023\174\103\223\164\263\312\164\347
\216\037\001\010\320\060\324\133\161\066\264\007\272\301\060\060
\134\110\267\202\073\230\246\175\140\212\242\243\051\202\314\272
\275\203\004\033\242\203\003\101\241\326\005\361\033\302\266\360
\250\174\206\073\106\250\110\052\210\334\166\232\166\277\037\152
\245\075\031\217\353\070\363\144\336\310\053\015\012\050\377\367
\333\342\025\102\324\042\320\047\135\341\171\376\030\347\160\210
\255\116\346\331\213\072\306\335\047\121\156\377\274\144\365\063
\103\117\002\003\001\000\001\243\102\060\100\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\006\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003
\125\035\016\004\026\004\024\171\264\131\346\173\266\345\344\001
\163\200\010\210\310\032\130\366\351\233\156\060\015\006\011\052
\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\125
\037\130\251\274\262\250\120\320\014\261\330\032\151\040\047\051
\010\254\141\165\134\212\156\370\202\345\151\057\325\366\126\113
\271\270\163\020\131\323\041\227\176\347\114\161\373\262\322\140
\255\071\250\013\352\027\041\126\205\361\120\016\131\353\316\340
\131\351\272\311\025\357\206\235\217\204\200\366\344\351\221\220

\334\027\233\142\033\105\360\146\225\322\174\157\302\352\073\357
\037\317\313\326\256\047\361\251\260\310\256\375\175\176\232\372
\042\004\353\377\331\177\352\221\053\042\261\027\016\217\362\212
\064\133\130\330\374\001\311\124\271\270\046\314\212\210\063\211
\114\055\204\074\202\337\356\226\127\005\272\054\273\367\304\267
\307\116\073\202\276\061\310\042\163\163\222\321\302\200\244\071
\071\020\063\043\202\114\074\237\206\262\125\230\035\276\051\206
\214\042\233\236\342\153\073\127\072\202\160\115\334\011\307\211
\313\012\007\115\154\350\135\216\311\357\316\253\307\273\265\053
\116\105\326\112\320\046\314\345\162\312\010\152\245\225\343\025
\241\367\244\355\311\054\137\245\373\377\254\050\002\056\276\327
\173\273\343\161\173\220\026\323\007\136\106\123\174\067\007\102
\214\323\304\226\234\325\231\265\052\340\225\032\200\110\256\114
\071\007\316\314\107\244\122\225\053\272\270\373\255\322\063\123
\175\345\035\115\155\325\241\261\307\102\157\346\100\047\065\134
\243\050\267\007\215\347\215\063\220\347\043\237\373\120\234\171
\154\106\325\264\025\263\226\156\176\233\014\226\072\270\122\055
\077\326\133\341\373\010\302\204\376\044\250\243\211\332\254\152
\341\030\052\261\250\103\141\133\323\037\334\073\215\166\362\055
\350\215\165\337\027\063\154\075\123\373\173\313\101\137\377\334
\242\320\141\070\341\226\270\254\135\213\067\327\165\325\063\300
\231\021\256\235\101\301\162\165\204\276\002\101\102\137\147\044
\110\224\321\233\047\276\007\077\271\270\117\201\164\121\341\172
\267\355\235\043\342\276\340\325\050\004\023\074\061\003\236\335
\172\154\217\306\007\030\306\177\336\107\216\077\050\236\004\006
\317\245\124\064\167\275\354\211\233\351\027\103\337\133\333\137
\376\216\036\127\242\315\100\235\176\142\042\332\336\030\047
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "ISRG Root X1"
Issuer: CN=ISRG Root X1,O=Internet Security Research Group,C=US
Serial Number:00:82:10:cf:b0:d2:40:e3:59:44:63:e0:bb:63:82:8b:00
Subject: CN=ISRG Root X1,O=Internet Security Research Group,C=US
Not Valid Before: Thu Jun 04 11:04:38 2015
Not Valid After : Mon Jun 04 11:04:38 2035
Fingerprint (SHA-256):
96:BC:EC:06:26:49:76:F3:74:60:77:9A:CF:28:C5:A7:CF:E8:A3:C0:AA:E1:1A:8F:FC:EE:05:C0:BD:DF:08:C6
Fingerprint (SHA1): CA:BD:2A:79:A1:07:6A:31:F2:1D:25:36:35:CB:03:9D:43:29:A5:E8
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\312\275\052\171\241\007\152\061\362\035\045\066\065\313\003\235

\103\051\245\350
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\014\322\371\340\332\027\163\351\355\206\115\245\343\160\347\116
END
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\202\020\317\260\322\100\343\131\104\143\340\273\143
\202\213\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "AC RAIZ FNMT-RCM"
#
Issuer: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
Serial Number:5d:93:8d:30:67:36:c8:06:1d:1a:c7:54:84:69:07
Subject: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
Not Valid Before: Wed Oct 29 15:59:56 2008
Not Valid After : Tue Jan 01 00:00:00 2030
Fingerprint (SHA-256):
EB:C5:57:0C:29:01:8C:4D:67:B1:AA:12:7B:AF:12:F7:03:B4:61:1E:BC:17:B7:DA:B5:57:38:94:17:9B:93:FA
Fingerprint (SHA1): EC:50:35:07:B2:15:C4:95:62:19:E2:A8:9A:5B:42:99:2C:4C:2C:20
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122
\103\115\061\031\060\027\006\003\125\004\013\014\020\101\103\040
\122\101\111\132\040\106\116\115\124\055\122\103\115
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\105\123\061

\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122
\103\115\061\031\060\027\006\003\125\004\013\014\020\101\103\040
\122\101\111\132\040\106\116\115\124\055\122\103\115
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\017\135\223\215\060\147\066\310\006\035\032\307\124\204\151
\007
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\203\060\202\003\153\240\003\002\001\002\002\017\135
\223\215\060\147\066\310\006\035\032\307\124\204\151\007\060\015
\006\011\052\206\110\206\367\015\001\001\013\005\000\060\073\061
\013\060\011\006\003\125\004\006\023\002\105\123\061\021\060\017
\006\003\125\004\012\014\010\106\116\115\124\055\122\103\115\061
\031\060\027\006\003\125\004\013\014\020\101\103\040\122\101\111
\132\040\106\116\115\124\055\122\103\115\060\036\027\015\060\070
\061\060\062\071\061\065\065\071\065\066\132\027\015\063\060\060
\061\060\061\060\060\060\060\060\060\132\060\073\061\013\060\011
\006\003\125\004\006\023\002\105\123\061\021\060\017\006\003\125
\004\012\014\010\106\116\115\124\055\122\103\115\061\031\060\027
\006\003\125\004\013\014\020\101\103\040\122\101\111\132\040\106
\116\115\124\055\122\103\115\060\202\002\042\060\015\006\011\052
\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060
\202\002\012\002\202\002\001\000\272\161\200\172\114\206\156\177
\310\023\155\300\306\175\034\000\227\217\054\014\043\273\020\232
\100\251\032\267\207\210\370\233\126\152\373\346\173\216\213\222
\216\247\045\135\131\021\333\066\056\267\121\027\037\251\010\037
\004\027\044\130\252\067\112\030\337\345\071\324\127\375\327\301
\054\221\001\221\342\042\324\003\300\130\374\167\107\354\217\076
\164\103\272\254\064\215\115\070\166\147\216\260\310\157\060\063
\130\161\134\264\365\153\156\324\001\120\270\023\176\154\112\243
\111\321\040\031\356\274\300\051\030\145\247\336\376\357\335\012
\220\041\347\032\147\222\102\020\230\137\117\060\274\076\034\105
\264\020\327\150\100\024\300\100\372\347\167\027\172\346\013\217
\145\133\074\331\232\122\333\265\275\236\106\317\075\353\221\005
\002\300\226\262\166\114\115\020\226\073\222\372\234\177\017\231
\337\276\043\065\105\036\002\134\376\265\250\233\231\045\332\136
\363\042\303\071\365\344\052\056\323\306\037\304\154\252\305\034
\152\001\005\112\057\322\305\301\250\064\046\135\146\245\322\002
\041\371\030\267\006\365\116\231\157\250\253\114\121\350\317\120
\030\305\167\310\071\011\054\111\222\062\231\250\273\027\027\171
\260\132\305\346\243\304\131\145\107\065\203\136\251\350\065\013
\231\273\344\315\040\306\233\112\006\071\265\150\374\042\272\356
\125\214\053\116\352\363\261\343\374\266\231\232\325\102\372\161
\115\010\317\207\036\152\161\175\371\323\264\351\245\161\201\173
\302\116\107\226\245\366\166\205\243\050\217\351\200\156\201\123
\245\155\137\270\110\371\302\371\066\246\056\111\377\270\226\302
\214\007\263\233\210\130\374\353\033\034\336\055\160\342\227\222

\060\241\211\343\274\125\250\047\326\113\355\220\255\213\372\143
\045\131\055\250\065\335\312\227\063\274\345\315\307\235\321\354
\357\136\016\112\220\006\046\143\255\271\331\065\055\007\272\166
\145\054\254\127\217\175\364\007\224\327\201\002\226\135\243\007
\111\325\172\320\127\371\033\347\123\106\165\252\260\171\102\313
\150\161\010\351\140\275\071\151\316\364\257\303\126\100\307\255
\122\242\011\344\157\206\107\212\037\353\050\047\135\203\040\257
\004\311\154\126\232\213\106\365\002\003\001\000\001\243\201\203
\060\201\200\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\006\060\035\006\003\125\035\016\004\026\004\024\367
\175\305\375\304\350\232\033\167\144\247\365\035\240\314\277\207
\140\232\155\060\076\006\003\125\035\040\004\067\060\065\060\063
\006\004\125\035\040\000\060\053\060\051\006\010\053\006\001\005
\005\007\002\001\026\035\150\164\164\160\072\057\057\167\167\167
\056\143\145\162\164\056\146\156\155\164\056\145\163\057\144\160
\143\163\057\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\003\202\002\001\000\007\220\112\337\363\043\116\360\303
\234\121\145\233\234\042\242\212\014\205\363\163\051\153\115\376
\001\342\251\014\143\001\277\004\147\245\235\230\137\375\001\023
\372\354\232\142\351\206\376\266\142\322\156\114\224\373\300\165
\105\174\145\014\370\262\067\317\254\017\317\215\157\371\031\367
\217\354\036\362\160\236\360\312\270\357\267\377\166\067\166\133
\366\156\210\363\257\142\062\042\223\015\072\152\216\024\146\014
\055\123\164\127\145\036\325\262\335\043\201\073\245\146\043\047
\147\011\217\341\167\252\103\315\145\121\010\355\121\130\376\346
\071\371\313\107\204\244\025\361\166\273\244\356\244\073\304\137
\357\262\063\226\021\030\267\311\145\276\030\341\243\244\334\372
\030\371\323\274\023\233\071\172\064\272\323\101\373\372\062\212
\052\267\053\206\013\151\203\070\276\315\212\056\013\160\255\215
\046\222\356\036\365\001\053\012\331\326\227\233\156\340\250\031
\034\072\041\213\014\036\100\255\003\347\335\146\176\365\271\040
\015\003\350\226\371\202\105\324\071\340\240\000\135\327\230\346
\175\236\147\163\303\232\052\367\253\213\241\072\024\357\064\274
\122\016\211\230\232\004\100\204\035\176\105\151\223\127\316\353
\316\370\120\174\117\034\156\004\103\233\371\326\073\043\030\351
\352\216\321\115\106\215\361\073\344\152\312\272\373\043\267\233
\372\231\001\051\132\130\132\055\343\371\324\155\016\046\255\301
\156\064\274\062\370\014\005\372\145\243\333\073\067\203\042\351
\326\334\162\063\375\135\362\040\275\166\074\043\332\050\367\371
\033\353\131\144\325\334\137\162\176\040\374\315\211\265\220\147
\115\142\172\077\116\255\035\303\071\376\172\364\050\026\337\101
\366\110\200\005\327\017\121\171\254\020\253\324\354\003\146\346
\152\260\272\061\222\102\100\152\276\072\323\162\341\152\067\125
\274\254\035\225\267\151\141\362\103\221\164\346\240\323\012\044
\106\241\010\257\326\332\105\031\226\324\123\035\133\204\171\360
\300\367\107\357\213\217\305\006\256\235\114\142\235\377\106\004
\370\323\311\266\020\045\100\165\376\026\252\311\112\140\206\057

\272\357\060\167\344\124\342\270\204\231\130\200\252\023\213\121
\072\117\110\366\213\266\263
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "AC RAIZ FNMT-RCM"
Issuer: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
Serial Number:5d:93:8d:30:67:36:c8:06:1d:1a:c7:54:84:69:07
Subject: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
Not Valid Before: Wed Oct 29 15:59:56 2008
Not Valid After : Tue Jan 01 00:00:00 2030
Fingerprint (SHA-256):
EB:C5:57:0C:29:01:8C:4D:67:B1:AA:12:7B:AF:12:F7:03:B4:61:1E:BC:17:B7:DA:B5:57:38:94:17:9B:93:FA
Fingerprint (SHA1): EC:50:35:07:B2:15:C4:95:62:19:E2:A8:9A:5B:42:99:2C:4C:2C:20
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\354\120\065\007\262\025\304\225\142\031\342\250\232\133\102\231
\054\114\054\040
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\342\011\004\264\323\275\321\240\024\375\032\322\107\304\127\035
END
CKA_ISSUER MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122
\103\115\061\031\060\027\006\003\125\004\013\014\020\101\103\040
\122\101\111\132\040\106\116\115\124\055\122\103\115
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\017\135\223\215\060\147\066\310\006\035\032\307\124\204\151
\007
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Amazon Root CA 1"
#
Issuer: CN=Amazon Root CA 1,O=Amazon,C=US
Serial Number:06:6c:9f:cf:99:bf:8c:0a:39:e2:f0:78:8a:43:e6:96:36:5b:ca

Subject: CN=Amazon Root CA 1,O=Amazon,C=US
Not Valid Before: Tue May 26 00:00:00 2015
Not Valid After : Sun Jan 17 00:00:00 2038
Fingerprint (SHA-256):
8E:CD:E6:88:4F:3D:87:B1:12:5B:A3:1A:C3:FC:B1:3D:70:16:DE:7F:57:CC:90:4F:E1:CB:97:C6:AE:98:19:6E
Fingerprint (SHA1): 8D:A7:F9:65:EC:5E:FC:37:91:0F:1C:6E:59:FD:C1:CC:6A:6E:DE:16
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\317\231\277\214\012\071\342\360\170\212\103
\346\226\066\133\312
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\101\060\202\002\051\240\003\002\001\002\002\023\006
\154\237\317\231\277\214\012\071\342\360\170\212\103\346\226\066
\133\312\060\015\006\011\052\206\110\206\367\015\001\001\013\005
\000\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157
\156\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172
\157\156\040\122\157\157\164\040\103\101\040\061\060\036\027\015
\061\065\060\065\062\066\060\060\060\060\060\060\132\027\015\063
\070\060\061\061\067\060\060\060\060\060\060\132\060\071\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\017\060\015\006
\003\125\004\012\023\006\101\155\141\172\157\156\061\031\060\027
\006\003\125\004\003\023\020\101\155\141\172\157\156\040\122\157
\157\164\040\103\101\040\061\060\202\001\042\060\015\006\011\052
\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060
\202\001\012\002\202\001\001\000\262\170\200\161\312\170\325\343
\161\257\107\200\120\164\175\156\330\327\210\166\364\231\150\367
\130\041\140\371\164\204\001\057\254\002\055\206\323\240\103\172
\116\262\244\320\066\272\001\276\215\333\110\310\007\027\066\114

\364\356\210\043\307\076\353\067\365\265\031\370\111\150\260\336
\327\271\166\070\035\141\236\244\376\202\066\245\345\112\126\344
\105\341\371\375\264\026\372\164\332\234\233\065\071\057\372\260
\040\120\006\154\172\320\200\262\246\371\257\354\107\031\217\120
\070\007\334\242\207\071\130\370\272\325\251\371\110\147\060\226
\356\224\170\136\157\211\243\121\300\060\206\146\241\105\146\272
\124\353\243\303\221\371\110\334\377\321\350\060\055\175\055\164
\160\065\327\210\044\367\236\304\131\156\273\163\207\027\362\062
\106\050\270\103\372\267\035\252\312\264\362\237\044\016\055\113
\367\161\134\136\151\377\352\225\002\313\070\212\256\120\070\157
\333\373\055\142\033\305\307\036\124\341\167\340\147\310\017\234
\207\043\326\077\100\040\177\040\200\304\200\114\076\073\044\046
\216\004\256\154\232\310\252\015\002\003\001\000\001\243\102\060
\100\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\206\060\035\006\003\125\035\016\004\026\004\024\204\030\314
\205\064\354\274\014\224\224\056\010\131\234\307\262\020\116\012
\010\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000
\003\202\001\001\000\230\362\067\132\101\220\241\032\305\166\121
\050\040\066\043\016\256\346\050\273\252\370\224\256\110\244\060
\177\033\374\044\215\113\264\310\241\227\366\266\361\172\160\310
\123\223\314\010\050\343\230\045\317\043\244\371\336\041\323\174
\205\011\255\116\232\165\072\302\013\152\211\170\166\104\107\030
\145\154\215\101\216\073\177\232\313\364\265\247\120\327\005\054
\067\350\003\113\255\351\141\240\002\156\365\362\360\305\262\355
\133\267\334\372\224\134\167\236\023\245\177\122\255\225\362\370
\223\073\336\213\134\133\312\132\122\133\140\257\024\367\113\357
\243\373\237\100\225\155\061\124\374\102\323\307\106\037\043\255
\331\017\110\160\232\331\165\170\161\321\162\103\064\165\156\127
\131\302\002\134\046\140\051\317\043\031\026\216\210\103\245\324
\344\313\010\373\043\021\103\350\103\051\162\142\241\251\135\136
\010\324\220\256\270\330\316\024\302\320\125\362\206\366\304\223
\103\167\146\141\300\271\350\101\327\227\170\140\003\156\112\162
\256\245\321\175\272\020\236\206\154\033\212\271\131\063\370\353
\304\220\276\361\271
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Amazon Root CA 1"
Issuer: CN=Amazon Root CA 1,O=Amazon,C=US
Serial Number:06:6c:9f:cf:99:bf:8c:0a:39:e2:f0:78:8a:43:e6:96:36:5b:ca
Subject: CN=Amazon Root CA 1,O=Amazon,C=US
Not Valid Before: Tue May 26 00:00:00 2015
Not Valid After : Sun Jan 17 00:00:00 2038
Fingerprint (SHA-256):
8E:CD:E6:88:4F:3D:87:B1:12:5B:A3:1A:C3:FC:B1:3D:70:16:DE:7F:57:CC:90:4F:E1:CB:97:C6:AE:98:19:6E

```
# Fingerprint (SHA1): 8D:A7:F9:65:EC:5E:FC:37:91:0F:1C:6E:59:FD:C1:CC:6A:6E:DE:16
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\215\247\371\145\354\136\374\067\221\017\034\156\131\375\301\314
\152\156\336\026
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\103\306\277\256\354\376\255\057\030\306\210\150\060\374\310\346
END
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\317\231\277\214\012\071\342\360\170\212\103
\346\226\066\133\312
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Amazon Root CA 2"
#
# Issuer: CN=Amazon Root CA 2,O=Amazon,C=US
# Serial Number:06:6c:9f:d2:96:35:86:9f:0a:0f:e5:86:78:f8:5b:26:bb:8a:37
# Subject: CN=Amazon Root CA 2,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):
1B:A5:B2:AA:8C:65:40:1A:82:96:01:18:F8:0B:EC:4F:62:30:4D:83:CE:C4:71:3A:19:C3:9C:01:1E:A4:6D:B4
# Fingerprint (SHA1): 5A:8C:EF:45:D7:A6:98:59:76:7A:8C:8B:44:96:B5:78:CF:47:4B:1A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
```

\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\322\226\065\206\237\012\017\345\206\170\370
\133\046\273\212\067
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\101\060\202\003\051\240\003\002\001\002\002\023\006
\154\237\322\226\065\206\237\012\017\345\206\170\370\133\046\273
\212\067\060\015\006\011\052\206\110\206\367\015\001\001\014\005
\000\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157
\156\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172
\157\156\040\122\157\157\164\040\103\101\040\062\060\036\027\015
\061\065\060\065\062\066\060\060\060\060\060\060\132\027\015\064
\060\060\065\062\066\060\060\060\060\060\060\132\060\071\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\017\060\015\006
\003\125\004\012\023\006\101\155\141\172\157\156\061\031\060\027
\006\003\125\004\003\023\020\101\155\141\172\157\156\040\122\157
\157\164\040\103\101\040\062\060\202\002\042\060\015\006\011\052
\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060
\202\002\012\002\202\002\001\000\255\226\237\055\234\112\114\112
\201\171\121\231\354\212\313\153\140\121\023\274\115\155\006\374
\260\010\215\335\031\020\152\307\046\014\065\330\300\157\040\204
\351\224\261\233\205\003\303\133\333\112\350\310\370\220\166\331
\133\117\343\114\350\006\066\115\314\232\254\075\014\220\053\222
\324\006\031\140\254\067\104\171\205\201\202\255\132\067\340\015
\314\235\246\114\122\166\352\103\235\267\004\321\120\366\125\340
\325\322\246\111\205\351\067\351\312\176\256\134\225\115\110\232
\077\256\040\132\155\210\225\331\064\270\122\032\103\220\260\277
\154\005\271\266\170\267\352\320\344\072\074\022\123\142\377\112
\362\173\276\065\005\251\022\064\343\363\144\164\142\054\075\000
\111\132\050\376\062\104\273\207\335\145\047\002\161\073\332\112
\367\037\332\315\367\041\125\220\117\017\354\256\202\341\237\153
\331\105\323\273\360\137\207\355\074\054\071\206\332\077\336\354
\162\125\353\171\243\255\333\335\174\260\272\034\316\374\336\117
\065\166\317\017\370\170\037\152\066\121\106\047\141\133\351\236
\317\360\242\125\175\174\045\212\157\057\264\305\317\204\056\053
\375\015\121\020\154\373\137\033\274\033\176\305\256\073\230\001
\061\222\377\013\127\364\232\262\271\127\351\253\357\015\166\321

\360\356\364\316\206\247\340\156\351\264\151\241\337\151\366\063
\306\151\056\227\023\236\245\207\260\127\020\201\067\311\123\263
\273\177\366\222\321\234\320\030\364\222\156\332\203\117\246\143
\231\114\245\373\136\357\041\144\172\040\137\154\144\205\025\313
\067\351\142\014\013\052\026\334\001\056\062\332\076\113\365\236
\072\366\027\100\224\357\236\221\010\206\372\276\143\250\132\063
\354\313\164\103\225\371\154\151\122\066\307\051\157\374\125\003
\134\037\373\237\275\107\353\347\111\107\225\013\116\211\042\011
\111\340\365\141\036\361\277\056\212\162\156\200\131\377\127\072
\371\165\062\243\116\137\354\355\050\142\331\115\163\362\314\201
\027\140\355\315\353\334\333\247\312\305\176\002\275\362\124\010
\124\375\264\055\011\054\027\124\112\230\321\124\341\121\147\010
\322\355\156\176\157\077\322\055\201\131\051\146\313\220\071\225
\021\036\164\047\376\335\353\257\002\003\001\000\001\243\102\060
\100\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\206\060\035\006\003\125\035\016\004\026\004\024\260\014\360
\114\060\364\005\130\002\110\375\063\345\122\257\113\204\343\146
\122\060\015\006\011\052\206\110\206\367\015\001\001\014\005\000
\003\202\002\001\000\252\250\200\217\016\170\243\340\242\324\315
\346\365\230\172\073\352\000\003\260\227\016\223\274\132\250\366
\054\214\162\207\251\261\374\177\163\375\143\161\170\245\207\131
\317\060\341\015\020\262\023\132\155\202\365\152\346\200\237\240
\005\013\150\344\107\153\307\152\337\266\375\167\062\162\345\030
\372\011\364\240\223\054\135\322\214\165\205\166\145\220\014\003
\171\267\061\043\143\255\170\203\011\206\150\204\312\377\371\317
\046\232\222\171\347\315\113\305\347\141\247\027\313\363\251\022
\223\223\153\247\350\057\123\222\304\140\130\260\314\002\121\030
\133\205\215\142\131\143\266\255\264\336\232\373\046\367\000\047
\300\135\125\067\164\231\311\120\177\343\131\056\104\343\054\045
\356\354\114\062\167\264\237\032\351\113\135\040\305\332\375\034
\207\026\306\103\350\324\273\046\232\105\160\136\251\013\067\123
\342\106\173\047\375\340\106\362\211\267\314\102\266\313\050\046
\156\331\245\311\072\310\101\023\140\367\120\214\025\256\262\155
\032\025\032\127\170\346\222\052\331\145\220\202\077\154\002\257
\256\022\072\047\226\066\004\327\035\242\200\143\251\233\361\345
\272\264\174\024\260\116\311\261\037\164\137\070\366\121\352\233
\372\054\242\021\324\251\055\047\032\105\261\257\262\116\161\015
\300\130\106\326\151\006\313\123\313\263\376\153\101\315\101\176
\175\114\017\174\162\171\172\131\315\136\112\016\254\233\251\230
\163\171\174\264\364\314\271\270\007\014\262\164\134\270\307\157
\210\241\220\247\364\252\371\277\147\072\364\032\025\142\036\267
\237\276\075\261\051\257\147\241\022\362\130\020\031\123\003\060
\033\270\032\211\366\234\275\227\003\216\243\011\363\035\213\041
\361\264\337\344\034\321\237\145\002\006\352\134\326\023\263\204
\357\242\245\134\214\167\051\247\150\300\153\256\100\322\250\264
\352\315\360\215\113\070\234\031\232\033\050\124\270\211\220\357
\312\165\201\076\036\362\144\044\307\030\257\116\377\107\236\007

\366\065\145\244\323\012\126\377\365\027\144\154\357\250\042\045
\111\223\266\337\000\027\332\130\176\135\356\305\033\260\321\321
\137\041\020\307\371\363\272\002\012\047\007\305\361\326\307\323
\340\373\011\140\154
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Amazon Root CA 2"
Issuer: CN=Amazon Root CA 2,O=Amazon,C=US
Serial Number:06:6c:9f:d2:96:35:86:9f:0a:0f:e5:86:78:f8:5b:26:bb:8a:37
Subject: CN=Amazon Root CA 2,O=Amazon,C=US
Not Valid Before: Tue May 26 00:00:00 2015
Not Valid After : Sat May 26 00:00:00 2040
Fingerprint (SHA-256):
1B:A5:B2:AA:8C:65:40:1A:82:96:01:18:F8:0B:EC:4F:62:30:4D:83:CE:C4:71:3A:19:C3:9C:01:1E:A4:6D:B4
Fingerprint (SHA1): 5A:8C:EF:45:D7:A6:98:59:76:7A:8C:8B:44:96:B5:78:CF:47:4B:1A
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\132\214\357\105\327\246\230\131\166\172\214\213\104\226\265\170
\317\107\113\032
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\310\345\215\316\250\102\342\172\300\052\134\174\236\046\277\146
END
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\322\226\065\206\237\012\017\345\206\170\370
\133\046\273\212\067
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Amazon Root CA 3"
#

Issuer: CN=Amazon Root CA 3,O=Amazon,C=US
Serial Number:06:6c:9f:d5:74:97:36:66:3f:3b:0b:9a:d9:e8:9e:76:03:f2:4a
Subject: CN=Amazon Root CA 3,O=Amazon,C=US
Not Valid Before: Tue May 26 00:00:00 2015
Not Valid After : Sat May 26 00:00:00 2040
Fingerprint (SHA-256):
18:CE:6C:FE:7B:F1:4E:60:B2:E3:47:B8:DF:E8:68:CB:31:D0:2E:BB:3A:DA:27:15:69:F5:03:43:B4:6D:B3:A4
Fingerprint (SHA1): 0D:44:DD:8C:3C:8C:1A:1A:58:75:64:81:E9:0F:2E:2A:FF:B3:D2:6E
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\325\164\227\066\146\077\073\013\232\331\350
\236\166\003\362\112
END
CKA_VALUE MULTILINE_OCTAL
\060\202\001\266\060\202\001\133\240\003\002\001\002\002\023\006
\154\237\325\164\227\066\146\077\073\013\232\331\350\236\166\003
\362\112\060\012\006\010\052\206\110\316\075\004\003\002\060\071
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\017\060
\015\006\003\125\004\012\023\006\101\155\141\172\157\156\061\031
\060\027\006\003\125\004\003\023\020\101\155\141\172\157\156\040
\122\157\157\164\040\103\101\040\063\060\036\027\015\061\065\060
\065\062\066\060\060\060\060\060\060\132\027\015\064\060\060\065
\062\066\060\060\060\060\060\060\132\060\071\061\013\060\011\006
\003\125\004\006\023\002\125\123\061\017\060\015\006\003\125\004
\012\023\006\101\155\141\172\157\156\061\031\060\027\006\003\125
\004\003\023\020\101\155\141\172\157\156\040\122\157\157\164\040
\103\101\040\063\060\131\060\023\006\007\052\206\110\316\075\002
\001\006\010\052\206\110\316\075\003\001\007\003\102\000\004\051
\227\247\306\101\177\300\015\233\350\001\033\126\306\362\122\245
\272\055\262\022\350\322\056\327\372\311\305\330\252\155\037\163

\201\073\073\230\153\071\174\063\245\305\116\206\216\200\027\150
\142\105\127\175\104\130\035\263\067\345\147\010\353\146\336\243
\102\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\206\060\035\006\003\125\035\016\004\026\004\024\253
\266\333\327\006\236\067\254\060\206\007\221\160\307\234\304\031
\261\170\300\060\012\006\010\052\206\110\316\075\004\003\002\003
\111\000\060\106\002\041\000\340\205\222\243\027\267\215\371\053
\006\245\223\254\032\230\150\141\162\372\341\241\320\373\034\170
\140\246\103\231\305\270\304\002\041\000\234\002\357\361\224\234
\263\226\371\353\306\052\370\266\054\376\072\220\024\026\327\214
\143\044\110\034\337\060\175\325\150\073
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Amazon Root CA 3"
Issuer: CN=Amazon Root CA 3,O=Amazon,C=US
Serial Number:06:6c:9f:d5:74:97:36:66:3f:3b:0b:9a:d9:e8:9e:76:03:f2:4a
Subject: CN=Amazon Root CA 3,O=Amazon,C=US
Not Valid Before: Tue May 26 00:00:00 2015
Not Valid After : Sat May 26 00:00:00 2040
Fingerprint (SHA-256):
18:CE:6C:FE:7B:F1:4E:60:B2:E3:47:B8:DF:E8:68:CB:31:D0:2E:BB:3A:DA:27:15:69:F5:03:43:B4:6D:B3:A4
Fingerprint (SHA1): 0D:44:DD:8C:3C:8C:1A:1A:58:75:64:81:E9:0F:2E:2A:FF:B3:D2:6E
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\015\104\335\214\074\214\032\032\130\165\144\201\351\017\056\052
\377\263\322\156
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\240\324\357\013\367\265\330\111\225\052\354\365\304\374\201\207
END
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\325\164\227\066\146\077\073\013\232\331\350
\236\166\003\362\112
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Amazon Root CA 4"
#
Issuer: CN=Amazon Root CA 4,O=Amazon,C=US
Serial Number:06:6c:9f:d7:c1:bb:10:4c:29:43:e5:71:7b:7b:2c:c8:1a:c1:0e
Subject: CN=Amazon Root CA 4,O=Amazon,C=US
Not Valid Before: Tue May 26 00:00:00 2015
Not Valid After : Sat May 26 00:00:00 2040
Fingerprint (SHA-256):
E3:5D:28:41:9E:D0:20:25:CF:A6:90:38:CD:62:39:62:45:8D:A5:C6:95:FB:DE:A3:C2:2B:0B:FB:25:89:70:92
Fingerprint (SHA1): F6:10:84:07:D6:F8:BB:67:98:0C:C2:E2:44:C2:EB:AE:1C:EF:63:BE
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\064
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\327\301\273\020\114\051\103\345\161\173\173
\054\310\032\301\016
END
CKA_VALUE MULTILINE_OCTAL
\060\202\001\362\060\202\001\170\240\003\002\001\002\002\023\006
\154\237\327\301\273\020\114\051\103\345\161\173\173\054\310\032
\301\016\060\012\006\010\052\206\110\316\075\004\003\003\060\071
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\017\060
\015\006\003\125\004\012\023\006\101\155\141\172\157\156\061\031
\060\027\006\003\125\004\003\023\020\101\155\141\172\157\156\040
\122\157\157\164\040\103\101\040\064\060\036\027\015\061\065\060
\065\062\066\060\060\060\060\060\060\132\027\015\064\060\060\065

\062\066\060\060\060\060\060\060\132\060\071\061\013\060\011\006
\003\125\004\006\023\002\125\123\061\017\060\015\006\003\125\004
\012\023\006\101\155\141\172\157\156\061\031\060\027\006\003\125
\004\003\023\020\101\155\141\172\157\156\040\122\157\157\164\040
\103\101\040\064\060\166\060\020\006\007\052\206\110\316\075\002
\001\006\005\053\201\004\000\042\003\142\000\004\322\253\212\067
\117\243\123\015\376\301\212\173\113\250\173\106\113\143\260\142
\366\055\033\333\010\161\041\322\000\350\143\275\232\047\373\360
\071\156\135\352\075\245\311\201\252\243\133\040\230\105\135\026
\333\375\350\020\155\343\234\340\343\275\137\204\142\363\160\144
\063\240\313\044\057\160\272\210\241\052\240\165\370\201\256\142
\006\304\201\333\071\156\051\260\036\372\056\134\243\102\060\100
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\206\060\035\006\003\125\035\016\004\026\004\024\323\354\307\072
\145\156\314\341\332\166\232\126\373\234\363\206\155\127\345\201
\060\012\006\010\052\206\110\316\075\004\003\003\003\150\000\060
\145\002\060\072\213\041\361\275\176\021\255\320\357\130\226\057
\326\353\235\176\220\215\053\317\146\125\303\054\343\050\251\160
\012\107\016\360\067\131\022\377\055\231\224\050\116\052\117\065
\115\063\132\002\061\000\352\165\000\116\073\304\072\224\022\221
\311\130\106\235\041\023\162\247\210\234\212\344\114\112\333\226
\324\254\213\153\153\111\022\123\063\255\327\344\276\044\374\265
\012\166\324\245\274\020
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Amazon Root CA 4"
Issuer: CN=Amazon Root CA 4,O=Amazon,C=US
Serial Number:06:6c:9f:d7:c1:bb:10:4c:29:43:e5:71:7b:7b:2c:c8:1a:c1:0e
Subject: CN=Amazon Root CA 4,O=Amazon,C=US
Not Valid Before: Tue May 26 00:00:00 2015
Not Valid After : Sat May 26 00:00:00 2040
Fingerprint (SHA-256):
E3:5D:28:41:9E:D0:20:25:CF:A6:90:38:CD:62:39:62:45:8D:A5:C6:95:FB:DE:A3:C2:2B:0B:FB:25:89:70:92
Fingerprint (SHA1): F6:10:84:07:D6:F8:BB:67:98:0C:C2:E2:44:C2:EB:AE:1C:EF:63:BE
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\366\020\204\007\326\370\273\147\230\014\302\342\104\302\353\256
\034\357\143\276
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL

\211\274\047\325\353\027\215\006\152\151\325\375\211\107\264\315
END
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\327\301\273\020\114\051\103\345\161\173\173
\054\310\032\301\016
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Symantec Class 1 Public Primary Certification Authority - G6"
#
Issuer: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust
Network,O=Symantec Corporation,C=US
Serial Number:24:32:75:f2:1d:2f:d2:09:33:f7:b4:6a:ca:d0:f3:98
Subject: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust
Network,O=Symantec Corporation,C=US
Not Valid Before: Tue Oct 18 00:00:00 2011
Not Valid After : Tue Dec 01 23:59:59 2037
Fingerprint (SHA-256):
9D:19:0B:2E:31:45:66:68:5B:E8:A8:89:E2:7A:A8:C7:D7:AE:1D:8A:AD:DB:A3:C1:EC:F9:D2:48:63:CD:34:B9
Fingerprint (SHA1): 51:7F:61:1E:29:91:6B:53:82:FB:72:E7:44:D9:8D:C3:CC:53:6D:64
For Email Distrust After: Wed Aug 31 00:00:00 2022
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 1 Public Primary Certification Authority - G6"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\061\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066

END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\061\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\044\062\165\362\035\057\322\011\063\367\264\152\312\320
\363\230
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\366\060\202\002\336\240\003\002\001\002\002\020\044
\062\165\362\035\057\322\011\063\367\264\152\312\320\363\230\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\201
\224\061\013\060\011\006\003\125\004\006\023\002\125\123\061\035
\060\033\006\003\125\004\012\023\024\123\171\155\141\156\164\145
\143\040\103\157\162\160\157\162\141\164\151\157\156\061\037\060
\035\006\003\125\004\013\023\026\123\171\155\141\156\164\145\143
\040\124\162\165\163\164\040\116\145\164\167\157\162\153\061\105
\060\103\006\003\125\004\003\023\074\123\171\155\141\156\164\145
\143\040\103\154\141\163\163\040\061\040\120\165\142\154\151\143
\040\120\162\151\155\141\162\171\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\055\040\107\066\060\036\027\015\061\061\061\060\061\070\060
\060\060\060\060\060\132\027\015\063\067\061\062\060\061\062\063
\065\071\065\071\132\060\201\224\061\013\060\011\006\003\125\004
\006\023\002\125\123\061\035\060\033\006\003\125\004\012\023\024
\123\171\155\141\156\164\145\143\040\103\157\162\160\157\162\141
\164\151\157\156\061\037\060\035\006\003\125\004\013\023\026\123
\171\155\141\156\164\145\143\040\124\162\165\163\164\040\116\145
\164\167\157\162\153\061\105\060\103\006\003\125\004\003\023\074
\123\171\155\141\156\164\145\143\040\103\154\141\163\163\040\061
\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165
\164\150\157\162\151\164\171\040\055\040\107\066\060\202\001\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\001\017\000\060\202\001\012\002\202\001\001\000\307\071\327
\111\144\251\231\202\042\114\352\105\331\007\026\343\173\364\203
\350\231\163\372\153\261\066\340\232\167\240\100\302\201\215\001
\307\314\214\275\217\175\367\171\343\172\114\003\115\331\373\375

\207\070\050\054\335\232\213\124\010\333\147\373\033\214\376\050
\222\057\276\267\262\110\247\201\241\330\136\210\303\314\071\100
\101\132\321\334\345\332\020\237\057\332\001\115\375\056\106\174
\371\056\047\012\151\067\356\221\243\033\152\314\104\277\033\307
\303\324\021\262\120\140\227\011\275\056\042\365\101\204\146\237
\315\100\246\251\000\200\301\037\225\222\237\336\363\110\357\333
\035\167\141\374\177\337\356\226\244\162\320\266\076\377\170\047
\257\313\222\025\151\010\333\143\020\342\346\227\254\156\334\254
\366\242\316\036\107\231\271\211\267\022\346\241\324\315\131\021
\147\303\157\205\330\102\116\050\276\131\125\131\004\225\253\217
\067\200\277\015\360\374\037\072\144\061\130\201\170\327\342\065
\366\040\077\051\270\217\026\156\076\110\334\265\114\007\341\362
\032\352\176\012\171\326\250\275\353\135\206\053\115\002\003\001
\000\001\243\102\060\100\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026
\004\024\063\101\350\310\071\022\025\223\110\362\226\062\056\132
\365\332\224\137\123\140\060\015\006\011\052\206\110\206\367\015
\001\001\013\005\000\003\202\001\001\000\025\343\163\127\261\027
\266\137\111\151\104\246\366\136\172\147\254\322\336\165\111\253
\376\045\125\307\072\311\104\025\020\156\277\061\153\313\331\007
\223\177\034\205\143\000\343\062\022\340\314\313\373\071\154\217
\342\123\342\074\100\063\331\244\214\107\346\255\130\373\211\257
\343\336\206\051\126\064\054\105\270\022\372\104\211\156\055\024
\045\050\044\001\145\326\352\122\254\005\156\126\022\011\075\320
\164\364\327\275\006\312\250\072\215\126\102\372\215\162\076\164
\361\003\162\337\207\033\136\016\172\125\226\054\070\267\230\205
\315\115\063\104\311\224\217\132\061\060\067\113\243\072\022\263
\347\066\321\041\150\113\055\070\346\123\256\034\045\126\010\126
\003\147\204\235\306\303\316\044\142\307\114\066\317\260\006\104
\267\365\137\002\335\331\124\351\057\220\116\172\310\116\203\100
\014\232\227\074\067\277\277\354\366\360\264\205\167\050\301\013
\310\147\202\020\027\070\242\267\006\352\233\277\072\370\351\043
\007\277\164\340\230\070\025\125\170\356\162\000\134\031\243\364
\322\063\340\377\275\321\124\071\051\017
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL
\062\062\060\070\063\061\060\060\060\060\060\060\132
END

Trust for "Symantec Class 1 Public Primary Certification Authority - G6"
Issuer: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US
Serial Number:24:32:75:f2:1d:2f:d2:09:33:f7:b4:6a:ca:d0:f3:98
Subject: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US

Not Valid Before: Tue Oct 18 00:00:00 2011
Not Valid After : Tue Dec 01 23:59:59 2037
Fingerprint (SHA-256):
9D:19:0B:2E:31:45:66:68:5B:E8:A8:89:E2:7A:A8:C7:D7:AE:1D:8A:AD:DB:A3:C1:EC:F9:D2:48:63:CD:34:B9
Fingerprint (SHA1): 51:7F:61:1E:29:91:6B:53:82:FB:72:E7:44:D9:8D:C3:CC:53:6D:64
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 1 Public Primary Certification Authority - G6"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\121\177\141\036\051\221\153\123\202\373\162\347\104\331\215\303
\314\123\155\144
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\057\250\264\332\366\144\113\036\202\371\106\075\124\032\174\260
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\061\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\044\062\165\362\035\057\322\011\063\367\264\152\312\320
\363\230
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Symantec Class 2 Public Primary Certification Authority - G6"
#
Issuer: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust
Network,O=Symantec Corporation,C=US
Serial Number:64:82:9e:fc:37:1e:74:5d:fc:97:ff:97:c8:b1:ff:41
Subject: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust
Network,O=Symantec Corporation,C=US
Not Valid Before: Tue Oct 18 00:00:00 2011
Not Valid After : Tue Dec 01 23:59:59 2037

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# Fingerprint (SHA-256):
CB:62:7D:18:B5:8A:D5:6D:DE:33:1A:30:45:6B:C6:5C:60:1A:4E:9B:18:DE:DC:EA:08:E7:DA:AA:07:81:5F:F0
# Fingerprint (SHA1): 40:B3:31:A0:E9:BF:E8:55:BC:39:93:CA:70:4F:4E:C2:51:D4:1D:8F
# For Email Distrust After: Wed Aug 31 00:00:00 2022
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 2 Public Primary Certification Authority - G6"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\062\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\062\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\144\202\236\374\067\036\164\135\374\227\377\227\310\261
\377\101
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\366\060\202\002\336\240\003\002\001\002\002\020\144
\202\236\374\067\036\164\135\374\227\377\227\310\261\377\101\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\201
\224\061\013\060\011\006\003\125\004\006\023\002\125\123\061\035
\060\033\006\003\125\004\012\023\024\123\171\155\141\156\164\145
\143\040\103\157\162\160\157\162\141\164\151\157\156\061\037\060
\035\006\003\125\004\013\023\026\123\171\155\141\156\164\145\143
\040\124\162\165\163\164\040\116\145\164\167\157\162\153\061\105
```

\060\103\006\003\125\004\003\023\074\123\171\155\141\156\164\145
\143\040\103\154\141\163\163\040\062\040\120\165\142\154\151\143
\040\120\162\151\155\141\162\171\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\055\040\107\066\060\036\027\015\061\061\061\060\061\070\060
\060\060\060\060\060\132\027\015\063\067\061\062\060\061\062\063
\065\071\065\071\132\060\201\224\061\013\060\011\006\003\125\004
\006\023\002\125\123\061\035\060\033\006\003\125\004\012\023\024
\123\171\155\141\156\164\145\143\040\103\157\162\160\157\162\141
\164\151\157\156\061\037\060\035\006\003\125\004\013\023\026\123
\171\155\141\156\164\145\143\040\124\162\165\163\164\040\116\145
\164\167\157\162\153\061\105\060\103\006\003\125\004\003\023\074
\123\171\155\141\156\164\145\143\040\103\154\141\163\163\040\062
\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165
\164\150\157\162\151\164\171\040\055\040\107\066\060\202\001\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\001\017\000\060\202\001\012\002\202\001\001\000\315\314\351
\005\310\143\205\313\077\100\143\027\275\030\372\065\346\004\147
\127\145\230\051\244\117\311\134\217\017\064\322\370\332\250\023
\142\252\270\036\120\147\170\260\026\114\240\071\251\025\172\256
\355\322\242\300\360\220\067\051\030\046\134\350\015\074\266\154
\111\077\301\340\334\331\113\266\024\031\013\246\323\226\341\326
\011\343\031\046\034\371\037\145\113\371\032\103\034\000\203\326
\320\252\111\242\324\333\346\142\070\272\120\024\103\155\371\061
\370\126\026\331\070\002\221\317\353\154\335\273\071\116\231\341
\060\147\105\361\324\360\215\303\337\376\362\070\007\041\175\000
\136\126\104\263\344\140\275\221\053\234\253\133\004\162\017\262
\050\331\162\253\005\040\102\045\251\133\003\152\040\020\314\061
\360\053\332\065\054\320\373\232\227\116\360\202\113\053\330\137
\066\243\013\055\257\143\015\035\045\177\241\156\134\142\241\215
\050\076\241\374\034\040\370\001\057\272\125\232\021\260\031\322
\310\120\171\153\016\152\005\327\252\004\066\262\243\362\341\137
\167\247\167\234\345\036\334\351\337\152\301\145\135\002\003\001
\000\001\243\102\060\100\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026
\004\024\207\214\040\225\310\230\112\321\326\200\006\112\220\064
\104\337\034\115\277\260\060\015\006\011\052\206\110\206\367\015
\001\001\013\005\000\003\202\001\001\000\201\216\262\245\146\226
\267\041\245\266\357\157\043\132\137\333\201\305\102\245\170\301
\151\375\364\074\327\371\134\153\160\162\032\374\132\227\115\000
\200\210\210\202\212\303\161\015\216\305\211\233\054\355\215\013
\322\162\124\365\175\324\134\103\127\351\363\256\245\002\021\366
\166\053\201\127\335\175\332\164\060\375\124\107\366\340\026\156
\246\264\012\110\346\347\165\007\017\051\031\071\316\171\364\266
\154\305\137\231\325\037\113\372\337\155\054\074\015\124\200\160
\360\210\013\200\317\306\150\242\270\035\160\331\166\214\374\356

\245\311\317\255\035\317\231\045\127\132\142\105\313\026\153\275
\111\315\245\243\214\151\171\045\256\270\114\154\213\100\146\113
\026\077\317\002\032\335\341\154\153\007\141\152\166\025\051\231
\177\033\335\210\200\301\277\265\217\163\305\246\226\043\204\246
\050\206\044\063\152\001\056\127\163\045\266\136\277\217\346\035
\141\250\100\051\147\035\207\233\035\177\233\237\231\315\061\326
\124\276\142\273\071\254\150\022\110\221\040\245\313\261\335\376
\157\374\132\344\202\125\131\257\061\251
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL
\062\062\060\070\063\061\060\060\060\060\060\060\132
END

Trust for "Symantec Class 2 Public Primary Certification Authority - G6"
Issuer: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US
Serial Number:64:82:9e:fc:37:1e:74:5d:fc:97:ff:97:c8:b1:ff:41
Subject: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US
Not Valid Before: Tue Oct 18 00:00:00 2011
Not Valid After : Tue Dec 01 23:59:59 2037
Fingerprint (SHA-256):
CB:62:7D:18:B5:8A:D5:6D:DE:33:1A:30:45:6B:C6:5C:60:1A:4E:9B:18:DE:DC:EA:08:E7:DA:AA:07:81:5F:F0
Fingerprint (SHA1): 40:B3:31:A0:E9:BF:E8:55:BC:39:93:CA:70:4F:4E:C2:51:D4:1D:8F
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 2 Public Primary Certification Authority - G6"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\100\263\061\240\351\277\350\125\274\071\223\312\160\117\116\302
\121\324\035\217
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\175\013\203\345\373\174\255\007\117\040\251\265\337\143\355\171
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\062\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151

\164\171\040\055\040\107\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\144\202\236\374\067\036\164\135\374\227\377\227\310\261
\377\101
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "D-TRUST Root CA 3 2013"
#
Issuer: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
Serial Number: 1039788 (0xfddac)
Subject: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
Not Valid Before: Fri Sep 20 08:25:51 2013
Not Valid After : Wed Sep 20 08:25:51 2028
Fingerprint (SHA-256):
A1:A8:6D:04:12:1E:B8:7F:02:7C:66:F5:33:03:C2:8E:57:39:F9:43:FC:84:B3:8A:D6:AF:00:90:35:DD:94:57
Fingerprint (SHA1): 6C:7C:CC:E7:D4:AE:51:5F:99:08:CD:3F:F6:E8:C3:78:DF:6F:EF:97
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root CA 3 2013"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\037\060\035\006\003\125\004\003\014
\026\104\055\124\122\125\123\124\040\122\157\157\164\040\103\101
\040\063\040\062\060\061\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\037\060\035\006\003\125\004\003\014
\026\104\055\124\122\125\123\124\040\122\157\157\164\040\103\101
\040\063\040\062\060\061\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\017\335\254
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\016\060\202\002\366\240\003\002\001\002\002\003\017

\335\254\060\015\006\011\052\206\110\206\367\015\001\001\013\005
\000\060\105\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165
\163\164\040\107\155\142\110\061\037\060\035\006\003\125\004\003
\014\026\104\055\124\122\125\123\124\040\122\157\157\164\040\103
\101\040\063\040\062\060\061\063\060\036\027\015\061\063\060\071
\062\060\060\070\062\065\065\061\132\027\015\062\070\060\071\062
\060\060\070\062\065\065\061\132\060\105\061\013\060\011\006\003
\125\004\006\023\002\104\105\061\025\060\023\006\003\125\004\012
\014\014\104\055\124\162\165\163\164\040\107\155\142\110\061\037
\060\035\006\003\125\004\003\014\026\104\055\124\122\125\123\124
\040\122\157\157\164\040\103\101\040\063\040\062\060\061\063\060
\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001\001
\005\000\003\202\001\017\000\060\202\001\012\002\202\001\001\000
\304\173\102\222\202\037\354\355\124\230\216\022\300\312\011\337
\223\156\072\223\134\033\344\020\167\236\116\151\210\154\366\341
\151\362\366\233\242\141\261\275\007\040\164\230\145\361\214\046
\010\315\250\065\312\200\066\321\143\155\350\104\172\202\303\154
\136\336\273\350\066\322\304\150\066\214\237\062\275\204\042\340
\334\302\356\020\106\071\155\257\223\071\256\207\346\303\274\011
\311\054\153\147\133\331\233\166\165\114\013\340\273\305\327\274
\076\171\362\137\276\321\220\127\371\256\366\146\137\061\277\323
\155\217\247\272\112\363\043\145\273\267\357\243\045\327\012\352
\130\266\357\210\372\372\171\262\122\130\325\360\254\214\241\121
\164\051\225\252\121\073\220\062\003\237\034\162\164\220\336\075
\355\141\322\345\343\375\144\107\345\271\267\112\251\367\037\256
\226\206\004\254\057\343\244\201\167\267\132\026\377\330\017\077
\366\267\170\314\244\257\372\133\074\022\133\250\122\211\162\357
\210\363\325\104\201\206\225\043\237\173\335\274\331\064\357\174
\224\074\252\300\101\302\343\235\120\032\300\344\031\042\374\263
\002\003\001\000\001\243\202\001\005\060\202\001\001\060\017\006
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\035
\006\003\125\035\016\004\026\004\024\077\220\310\175\307\025\157
\363\044\217\251\303\057\113\242\017\041\262\057\347\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\201\276
\006\003\125\035\037\004\201\266\060\201\263\060\164\240\162\240
\160\206\156\154\144\141\160\072\057\057\144\151\162\145\143\164
\157\162\171\056\144\055\164\162\165\163\164\056\156\145\164\057
\103\116\075\104\055\124\122\125\123\124\045\062\060\122\157\157
\164\045\062\060\103\101\045\062\060\063\045\062\060\062\060\061
\063\054\117\075\104\055\124\162\165\163\164\045\062\060\107\155
\142\110\054\103\075\104\105\077\143\145\162\164\151\146\151\143
\141\164\145\162\145\166\157\143\141\164\151\157\156\154\151\163
\164\060\073\240\071\240\067\206\065\150\164\164\160\072\057\057
\143\162\154\056\144\055\164\162\165\163\164\056\156\145\164\057
\143\162\154\057\144\055\164\162\165\163\164\137\162\157\157\164
\137\143\141\137\063\137\062\060\061\063\056\143\162\154\060\015
\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202\001

\001\000\016\131\016\130\344\164\110\043\104\317\064\041\265\234
\024\032\255\232\113\267\263\210\155\134\251\027\160\360\052\237
\215\173\371\173\205\372\307\071\350\020\010\260\065\053\137\317
\002\322\323\234\310\013\036\356\005\124\256\067\223\004\011\175
\154\217\302\164\274\370\034\224\276\061\001\100\055\363\044\040
\267\204\125\054\134\310\365\164\112\020\031\213\243\307\355\065
\326\011\110\323\016\300\272\071\250\260\106\002\260\333\306\210
\131\302\276\374\173\261\053\317\176\142\207\125\226\314\001\157
\233\147\041\225\065\213\370\020\374\161\033\267\113\067\151\246
\073\326\354\213\356\301\260\363\045\311\217\222\175\241\352\303
\312\104\277\046\245\164\222\234\343\164\353\235\164\331\313\115
\207\330\374\264\151\154\213\240\103\007\140\170\227\351\331\223
\174\302\106\274\233\067\122\243\355\212\074\023\251\173\123\113
\111\232\021\005\054\013\156\126\254\037\056\202\154\340\151\147
\265\016\155\055\331\344\300\025\361\077\372\030\162\341\025\155
\047\133\055\060\050\053\237\110\232\144\053\231\357\362\165\111
\137\134
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "D-TRUST Root CA 3 2013"
Issuer: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
Serial Number: 1039788 (0xfddac)
Subject: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
Not Valid Before: Fri Sep 20 08:25:51 2013
Not Valid After : Wed Sep 20 08:25:51 2028
Fingerprint (SHA-256):
A1:A8:6D:04:12:1E:B8:7F:02:7C:66:F5:33:03:C2:8E:57:39:F9:43:FC:84:B3:8A:D6:AF:00:90:35:DD:94:57
Fingerprint (SHA1): 6C:7C:CC:E7:D4:AE:51:5F:99:08:CD:3F:F6:E8:C3:78:DF:6F:EF:97
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root CA 3 2013"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\154\174\314\347\324\256\121\137\231\010\315\077\366\350\303\170
\337\157\357\227
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\267\042\146\230\176\326\003\340\301\161\346\165\315\126\105\277
END
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\037\060\035\006\003\125\004\003\014
\026\104\055\124\122\125\123\124\040\122\157\157\164\040\103\101

\040\063\040\062\060\061\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\017\335\254
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
#
Issuer: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
Serial Number: 1 (0x1)
Subject: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
Not Valid Before: Mon Nov 25 08:25:55 2013
Not Valid After : Sun Oct 25 08:25:55 2043
Fingerprint (SHA-256):
46:ED:C3:68:90:46:D5:3A:45:3F:B3:10:4A:B8:0D:CA:EC:65:8B:26:60:EA:16:29:DD:7E:86:79:90:64:87:16
Fingerprint (SHA1): 31:43:64:9B:EC:CE:27:EC:ED:3A:3F:0B:8F:0D:E4:E8:91:DD:EE:CA
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\322\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\030\060\026\006\003\125\004\007\023\017\107\145\142\172\145
\040\055\040\113\157\143\141\145\154\151\061\102\060\100\006\003
\125\004\012\023\071\124\165\162\153\151\171\145\040\102\151\154
\151\155\163\145\154\040\166\145\040\124\145\153\156\157\154\157
\152\151\153\040\101\162\141\163\164\151\162\155\141\040\113\165
\162\165\155\165\040\055\040\124\125\102\111\124\101\113\061\055
\060\053\006\003\125\004\013\023\044\113\141\155\165\040\123\145
\162\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153
\145\172\151\040\055\040\113\141\155\165\040\123\115\061\066\060
\064\006\003\125\004\003\023\055\124\125\102\111\124\101\113\040
\113\141\155\165\040\123\115\040\123\123\114\040\113\157\153\040
\123\145\162\164\151\146\151\153\141\163\151\040\055\040\123\165
\162\165\155\040\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\322\061\013\060\011\006\003\125\004\006\023\002\124\122

\061\030\060\026\006\003\125\004\007\023\017\107\145\142\172\145
\040\055\040\113\157\143\141\145\154\151\061\102\060\100\006\003
\125\004\012\023\071\124\165\162\153\151\171\145\040\102\151\154
\151\155\163\145\154\040\166\145\040\124\145\153\156\157\154\157
\152\151\153\040\101\162\141\163\164\151\162\155\141\040\113\165
\162\165\155\165\040\055\040\124\125\102\111\124\101\113\061\055
\060\053\006\003\125\004\013\023\044\113\141\155\165\040\123\145
\162\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153
\145\172\151\040\055\040\113\141\155\165\040\123\115\061\066\060
\064\006\003\125\004\003\023\055\124\125\102\111\124\101\113\040
\113\141\155\165\040\123\115\040\123\123\114\040\113\157\153\040
\123\145\162\164\151\146\151\153\141\163\151\040\055\040\123\165
\162\165\155\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\143\060\202\003\113\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\201\322\061\013\060\011\006\003\125\004\006\023\002\124\122\061
\030\060\026\006\003\125\004\007\023\017\107\145\142\172\145\040
\055\040\113\157\143\141\145\154\151\061\102\060\100\006\003\125
\004\012\023\071\124\165\162\153\151\171\145\040\102\151\154\151
\155\163\145\154\040\166\145\040\124\145\153\156\157\154\157\152
\151\153\040\101\162\141\163\164\151\162\155\141\040\113\165\162
\165\155\165\040\055\040\124\125\102\111\124\101\113\061\055\060
\053\006\003\125\004\013\023\044\113\141\155\165\040\123\145\162
\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153\145
\172\151\040\055\040\113\141\155\165\040\123\115\061\066\060\064
\006\003\125\004\003\023\055\124\125\102\111\124\101\113\040\113
\141\155\165\040\123\115\040\123\123\114\040\113\157\153\040\123
\145\162\164\151\146\151\153\141\163\151\040\055\040\123\165\162
\165\155\040\061\060\036\027\015\061\063\061\061\062\065\060\070
\062\065\065\065\132\027\015\064\063\061\060\062\065\060\070\062
\065\065\065\132\060\201\322\061\013\060\011\006\003\125\004\006
\023\002\124\122\061\030\060\026\006\003\125\004\007\023\017\107
\145\142\172\145\040\055\040\113\157\143\141\145\154\151\061\102
\060\100\006\003\125\004\012\023\071\124\165\162\153\151\171\145
\040\102\151\154\151\155\163\145\154\040\166\145\040\124\145\153
\156\157\154\157\152\151\153\040\101\162\141\163\164\151\162\155
\141\040\113\165\162\165\155\165\040\055\040\124\125\102\111\124
\101\113\061\055\060\053\006\003\125\004\013\023\044\113\141\155
\165\040\123\145\162\164\151\146\151\153\141\163\171\157\156\040
\115\145\162\153\145\172\151\040\055\040\113\141\155\165\040\123
\115\061\066\060\064\006\003\125\004\003\023\055\124\125\102\111
\124\101\113\040\113\141\155\165\040\123\115\040\123\123\114\040
\113\157\153\040\123\145\162\164\151\146\151\153\141\163\151\040

\055\040\123\165\162\165\155\040\061\060\202\001\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017
\000\060\202\001\012\002\202\001\001\000\257\165\060\063\252\273
\153\323\231\054\022\067\204\331\215\173\227\200\323\156\347\377
\233\120\225\076\220\225\126\102\327\031\174\046\204\215\222\372
\001\035\072\017\342\144\070\267\214\274\350\210\371\213\044\253
\056\243\365\067\344\100\216\030\045\171\203\165\037\073\377\154
\250\305\306\126\370\264\355\212\104\243\253\154\114\374\035\320
\334\357\150\275\317\344\252\316\360\125\367\242\064\324\203\153
\067\174\034\302\376\265\003\354\127\316\274\264\265\305\355\000
\017\123\067\052\115\364\117\014\203\373\206\317\313\376\214\116
\275\207\371\247\213\041\127\234\172\337\003\147\211\054\235\227
\141\247\020\270\125\220\177\016\055\047\070\164\337\347\375\332
\116\022\343\115\025\042\002\310\340\340\374\017\255\212\327\311
\124\120\314\073\017\312\026\200\204\320\121\126\303\216\126\177
\211\042\063\057\346\205\012\275\245\250\033\066\336\323\334\054
\155\073\307\023\275\131\043\054\346\345\244\367\330\013\355\352
\220\100\104\250\225\273\223\325\320\200\064\266\106\170\016\037
\000\223\106\341\356\351\371\354\117\027\002\003\001\000\001\243
\102\060\100\060\035\006\003\125\035\016\004\026\004\024\145\077
\307\212\206\306\074\335\074\124\134\065\370\072\355\122\014\107
\127\310\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\006\060\017\006\003\125\035\023\001\001\377\004\005\060\003
\001\001\377\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\003\202\001\001\000\052\077\341\361\062\216\256\341\230
\134\113\136\317\153\036\152\011\322\042\251\022\307\136\127\175
\163\126\144\200\204\172\223\344\011\271\020\315\237\052\047\341
\000\167\276\110\310\065\250\201\237\344\270\054\311\177\016\260
\322\113\067\135\352\271\325\013\136\064\275\364\163\051\303\355
\046\025\234\176\010\123\212\130\215\320\113\050\337\301\263\337
\040\363\371\343\343\072\337\314\234\224\330\116\117\303\153\027
\267\367\162\350\255\146\063\265\045\123\253\340\370\114\251\235
\375\362\015\272\256\271\331\252\306\153\371\223\273\256\253\270
\227\074\003\032\272\103\306\226\271\105\162\070\263\247\241\226
\075\221\173\176\300\041\123\114\207\355\362\013\124\225\121\223
\325\042\245\015\212\361\223\016\076\124\016\260\330\311\116\334
\362\061\062\126\352\144\371\352\265\235\026\146\102\162\363\177
\323\261\061\103\374\244\216\027\361\155\043\253\224\146\370\255
\373\017\010\156\046\055\177\027\007\011\262\214\373\120\300\237
\226\215\317\266\375\000\235\132\024\232\277\002\104\365\301\302
\237\042\136\242\017\241\343
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
Issuer: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu

SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
Serial Number: 1 (0x1)
Subject: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu
SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
Not Valid Before: Mon Nov 25 08:25:55 2013
Not Valid After : Sun Oct 25 08:25:55 2043
Fingerprint (SHA-256):
46:ED:C3:68:90:46:D5:3A:45:3F:B3:10:4A:B8:0D:CA:EC:65:8B:26:60:EA:16:29:DD:7E:86:79:90:64:87:16
Fingerprint (SHA1): 31:43:64:9B:EC:CE:27:EC:ED:3A:3F:0B:8F:0D:E4:E8:91:DD:EE:CA
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\061\103\144\233\354\316\047\354\355\072\077\013\217\015\344\350
\221\335\356\312
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\334\000\201\334\151\057\076\057\260\073\366\075\132\221\216\111
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\322\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\030\060\026\006\003\125\004\007\023\017\107\145\142\172\145
\040\055\040\113\157\143\141\145\154\151\061\102\060\100\006\003
\125\004\012\023\071\124\165\162\153\151\171\145\040\102\151\154
\151\155\163\145\154\040\166\145\040\124\145\153\156\157\154\157
\152\151\153\040\101\162\141\163\164\151\162\155\141\040\113\165
\162\165\155\165\040\055\040\124\125\102\111\124\101\113\061\055
\060\053\006\003\125\004\013\023\044\113\141\155\165\040\123\145
\162\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153
\145\172\151\040\055\040\113\141\155\165\040\123\115\061\066\060
\064\006\003\125\004\003\023\055\124\125\102\111\124\101\113\040
\113\141\155\165\040\123\115\040\123\123\114\040\113\157\153\040
\123\145\162\164\151\146\151\153\141\163\151\040\055\040\123\165
\162\165\155\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "GDCA TrustAUTH R5 ROOT"
#

Issuer: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY CO.,LTD.",C=CN
Serial Number:7d:09:97:fe:f0:47:ea:7a
Subject: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY CO.,LTD.",C=CN
Not Valid Before: Wed Nov 26 05:13:15 2014
Not Valid After : Mon Dec 31 15:59:59 2040
Fingerprint (SHA-256): BF:FF:8F:D0:44:33:48:7D:6A:8A:A6:0C:1A:29:76:7A:9F:C2:BB:B0:5E:42:0F:71:3A:13:B9:92:89:1D:38:93
Fingerprint (SHA1): 0F:36:38:5B:81:1A:25:C3:9B:31:4E:83:CA:E9:34:66:70:CC:74:B4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GDCA TrustAUTH R5 ROOT"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\062\060\060\006\003\125\004\012\014\051\107\125\101\116\107\040
\104\117\116\107\040\103\105\122\124\111\106\111\103\101\124\105
\040\101\125\124\110\117\122\111\124\131\040\103\117\056\054\114
\124\104\056\061\037\060\035\006\003\125\004\003\014\026\107\104
\103\101\040\124\162\165\163\164\101\125\124\110\040\122\065\040
\122\117\117\124
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\062\060\060\006\003\125\004\012\014\051\107\125\101\116\107\040
\104\117\116\107\040\103\105\122\124\111\106\111\103\101\124\105
\040\101\125\124\110\117\122\111\124\131\040\103\117\056\054\114
\124\104\056\061\037\060\035\006\003\125\004\003\014\026\107\104
\103\101\040\124\162\165\163\164\101\125\124\110\040\122\065\040
\122\117\117\124
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\175\011\227\376\360\107\352\172
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\210\060\202\003\160\240\003\002\001\002\002\010\175
\011\227\376\360\107\352\172\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\142\061\013\060\011\006\003\125\004
\006\023\002\103\116\061\062\060\060\006\003\125\004\012\014\051
\107\125\101\116\107\040\104\117\116\107\040\103\105\122\124\111
\106\111\103\101\124\105\040\101\125\124\110\117\122\111\124\131
\040\103\117\056\054\114\124\104\056\061\037\060\035\006\003\125
\004\003\014\026\107\104\103\101\040\124\162\165\163\164\101\125
\124\110\040\122\065\040\122\117\117\124\060\036\027\015\061\064

\061\061\062\066\060\065\061\063\061\065\132\027\015\064\060\061
\062\063\061\061\065\065\071\065\071\132\060\142\061\013\060\011
\006\003\125\004\006\023\002\103\116\061\062\060\060\006\003\125
\004\012\014\051\107\125\101\116\107\040\104\117\116\107\040\103
\105\122\124\111\106\111\103\101\124\105\040\101\125\124\110\117
\122\111\124\131\040\103\117\056\054\114\124\104\056\061\037\060
\035\006\003\125\004\003\014\026\107\104\103\101\040\124\162\165
\163\164\101\125\124\110\040\122\065\040\122\117\117\124\060\202
\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\331
\243\026\360\310\164\164\167\233\357\063\015\073\006\176\125\374
\265\140\217\166\206\022\102\175\126\146\076\210\202\355\162\143
\016\236\213\335\064\054\002\121\121\303\031\375\131\124\204\311
\361\153\263\114\260\351\350\106\135\070\306\242\247\056\021\127
\272\202\025\242\234\217\155\260\231\112\012\362\353\211\160\143
\116\171\304\267\133\275\242\135\261\362\101\002\053\255\251\072
\243\354\171\012\354\137\072\343\375\357\200\074\255\064\233\032
\253\210\046\173\126\242\202\206\037\353\065\211\203\177\137\256
\051\116\075\266\156\354\256\301\360\047\233\256\343\364\354\357
\256\177\367\206\075\162\172\353\245\373\131\116\247\353\225\214
\042\071\171\341\055\010\217\314\274\221\270\101\367\024\301\043
\251\303\255\232\105\104\263\262\327\054\315\306\051\342\120\020
\256\134\313\202\216\027\030\066\175\227\346\210\232\260\115\064
\011\364\054\271\132\146\052\260\027\233\236\036\166\235\112\146
\061\101\337\077\373\305\006\357\033\266\176\032\106\066\367\144
\143\073\343\071\030\043\347\147\165\024\325\165\127\222\067\275
\276\152\033\046\120\362\066\046\006\220\305\160\001\144\155\166
\146\341\221\333\156\007\300\141\200\056\262\056\057\214\160\247
\321\073\074\263\221\344\156\266\304\073\160\362\154\222\227\011
\315\107\175\030\300\363\273\236\017\326\213\256\007\266\132\017
\316\013\014\107\247\345\076\270\275\175\307\233\065\240\141\227
\072\101\165\027\314\053\226\167\052\222\041\036\331\225\166\040
\147\150\317\015\275\337\326\037\011\152\232\342\314\163\161\244
\057\175\022\200\267\123\060\106\136\113\124\231\017\147\311\245
\310\362\040\301\202\354\235\021\337\302\002\373\032\073\321\355
\040\232\357\145\144\222\020\015\052\342\336\160\361\030\147\202
\214\141\336\270\274\321\057\234\373\017\320\053\355\033\166\271
\344\071\125\370\370\241\035\270\252\200\000\114\202\347\262\177
\011\270\274\060\240\057\015\365\122\236\216\367\222\263\012\000
\035\000\124\227\006\340\261\007\331\307\017\134\145\175\074\155
\131\127\344\355\245\215\351\100\123\237\025\113\240\161\366\032
\041\343\332\160\006\041\130\024\207\205\167\171\252\202\171\002
\003\001\000\001\243\102\060\100\060\035\006\003\125\035\016\004
\026\004\024\342\311\100\237\115\316\350\232\241\174\317\016\077
\145\305\051\210\152\031\121\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\016\006\003\125\035\017\001
\001\377\004\004\003\002\001\206\060\015\006\011\052\206\110\206
\367\015\001\001\013\005\000\003\202\002\001\000\321\111\127\340

\247\314\150\130\272\001\017\053\031\315\215\260\141\105\254\021
\355\143\120\151\370\037\177\276\026\217\375\235\353\013\252\062
\107\166\322\147\044\355\275\174\063\062\227\052\307\005\206\146
\015\027\175\024\025\033\324\353\375\037\232\366\136\227\151\267
\032\045\244\012\263\221\077\137\066\254\213\354\127\250\076\347
\201\212\030\127\071\205\164\032\102\307\351\133\023\137\217\371
\010\351\222\164\215\365\107\322\253\073\326\373\170\146\116\066
\175\371\351\222\351\004\336\375\111\143\374\155\373\024\161\223
\147\057\107\112\267\271\377\036\052\163\160\106\060\277\132\362
\057\171\245\341\215\014\331\371\262\143\067\214\067\145\205\160
\152\134\133\011\162\271\255\143\074\261\335\370\374\062\277\067
\206\344\273\216\230\047\176\272\037\026\341\160\021\362\003\337
\045\142\062\047\046\030\062\204\237\377\000\072\023\272\232\115
\364\117\270\024\160\042\261\312\053\220\316\051\301\160\364\057
\235\177\362\220\036\326\132\337\267\106\374\346\206\372\313\340
\040\166\172\272\246\313\365\174\336\142\245\261\213\356\336\202
\146\212\116\072\060\037\077\200\313\255\047\272\014\136\327\320
\261\126\312\167\161\262\265\165\241\120\251\100\103\027\302\050
\331\317\122\213\133\310\143\324\102\076\240\063\172\106\056\367
\012\040\106\124\176\152\117\061\361\201\176\102\164\070\145\163
\047\356\306\174\270\216\327\245\072\327\230\241\234\214\020\125
\323\333\113\354\100\220\362\315\156\127\322\142\016\174\127\223
\261\247\155\315\235\203\273\052\347\345\266\073\161\130\255\375
\321\105\274\132\221\356\123\025\157\323\105\011\165\156\272\220
\135\036\004\317\067\337\036\250\146\261\214\346\040\152\357\374
\110\116\164\230\102\257\051\157\056\152\307\373\175\321\146\061
\042\314\206\000\176\146\203\014\102\364\275\064\222\303\032\352
\117\312\176\162\115\013\160\214\246\110\273\246\241\024\366\373
\130\104\231\024\256\252\013\223\151\240\051\045\112\245\313\053
\335\212\146\007\026\170\025\127\161\033\354\365\107\204\363\236
\061\067\172\325\177\044\255\344\274\375\375\314\156\203\350\014
\250\267\101\154\007\335\275\074\206\227\057\322
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "GDCA TrustAUTH R5 ROOT"
Issuer: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY CO.,LTD.",C=CN
Serial Number:7d:09:97:fe:f0:47:ea:7a
Subject: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY CO.,LTD.",C=CN
Not Valid Before: Wed Nov 26 05:13:15 2014
Not Valid After : Mon Dec 31 15:59:59 2040
Fingerprint (SHA-256):
BF:FF:8F:D0:44:33:48:7D:6A:8A:A6:0C:1A:29:76:7A:9F:C2:BB:B0:5E:42:0F:71:3A:13:B9:92:89:1D:38:93
Fingerprint (SHA1): 0F:36:38:5B:81:1A:25:C3:9B:31:4E:83:CA:E9:34:66:70:CC:74:B4

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GDCA TrustAUTH R5 ROOT"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\017\066\070\133\201\032\045\303\233\061\116\203\312\351\064\146
\160\314\164\264
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\143\314\331\075\064\065\134\157\123\243\342\010\160\110\037\264
END
CKA_ISSUER MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\062\060\060\006\003\125\004\012\014\051\107\125\101\116\107\040
\104\117\116\107\040\103\105\122\124\111\106\111\103\101\124\105
\040\101\125\124\110\117\122\111\124\131\040\103\117\056\054\114
\124\104\056\061\037\060\035\006\003\125\004\003\014\026\107\104
\103\101\040\124\162\165\163\164\101\125\124\110\040\122\065\040
\122\117\117\124
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\175\011\227\376\360\107\352\172
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "TrustCor RootCert CA-1"
#
Issuer: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de
R.L.,L=Panama City,ST=Panama,C=PA
Serial Number:00:da:9b:ec:71:f3:03:b0:19
Subject: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de
R.L.,L=Panama City,ST=Panama,C=PA
Not Valid Before: Thu Feb 04 12:32:16 2016
Not Valid After : Mon Dec 31 17:23:16 2029
Fingerprint (SHA-256):
D4:0E:9C:86:CD:8F:E4:68:C1:77:69:59:F4:9E:A7:74:FA:54:86:84:B6:C4:06:F3:90:92:61:F4:DC:E2:57:5C
Fingerprint (SHA1): FF:BD:CD:E7:82:C8:43:5E:3C:6F:26:86:5C:CA:A8:3A:45:5B:C3:0A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\201\244\061\013\060\011\006\003\125\004\006\023\002\120\101
\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\101\055\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\244\061\013\060\011\006\003\125\004\006\023\002\120\101
\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\101\055\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\332\233\354\161\363\003\260\031
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\060\060\202\003\030\240\003\002\001\002\002\011\000
\332\233\354\161\363\003\260\031\060\015\006\011\052\206\110\206
\367\015\001\001\013\005\000\060\201\244\061\013\060\011\006\003
\125\004\006\023\002\120\101\061\017\060\015\006\003\125\004\010
\014\006\120\141\156\141\155\141\061\024\060\022\006\003\125\004
\007\014\013\120\141\156\141\155\141\040\103\151\164\171\061\044
\060\042\006\003\125\004\012\014\033\124\162\165\163\164\103\157
\162\040\123\171\163\164\145\155\163\040\123\056\040\144\145\040
\122\056\114\056\061\047\060\045\006\003\125\004\013\014\036\124
\162\165\163\164\103\157\162\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\061\037\060
\035\006\003\125\004\003\014\026\124\162\165\163\164\103\157\162
\040\122\157\157\164\103\145\162\164\040\103\101\055\061\060\036
\027\015\061\066\060\062\060\064\061\062\063\062\061\066\132\027
\015\062\071\061\062\063\061\061\067\062\063\061\066\132\060\201
\244\061\013\060\011\006\003\125\004\006\023\002\120\101\061\017
\060\015\006\003\125\004\010\014\006\120\141\156\141\155\141\061

\024\060\022\006\003\125\004\007\014\013\120\141\156\141\155\141
\040\103\151\164\171\061\044\060\042\006\003\125\004\012\014\033
\124\162\165\163\164\103\157\162\040\123\171\163\164\145\155\163
\040\123\056\040\144\145\040\122\056\114\056\061\047\060\045\006
\003\125\004\013\014\036\124\162\165\163\164\103\157\162\040\103
\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157
\162\151\164\171\061\037\060\035\006\003\125\004\003\014\026\124
\162\165\163\164\103\157\162\040\122\157\157\164\103\145\162\164
\040\103\101\055\061\060\202\001\042\060\015\006\011\052\206\110
\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001
\012\002\202\001\001\000\277\216\267\225\342\302\046\022\153\063
\031\307\100\130\012\253\131\252\215\000\243\374\200\307\120\173
\216\324\040\046\272\062\022\330\043\124\111\045\020\042\230\235
\106\322\301\311\236\116\033\056\054\016\070\363\032\045\150\034
\246\132\005\346\036\213\110\277\230\226\164\076\151\312\351\265
\170\245\006\274\325\000\136\011\012\362\047\172\122\374\055\325
\261\352\264\211\141\044\363\032\023\333\251\317\122\355\014\044
\272\271\236\354\176\000\164\372\223\255\154\051\222\256\121\264
\273\323\127\277\263\363\250\215\234\364\044\113\052\326\231\236
\364\236\376\300\176\102\072\347\013\225\123\332\267\150\016\220
\114\373\160\077\217\112\054\224\363\046\335\143\151\251\224\330
\020\116\305\107\010\220\231\033\027\115\271\154\156\357\140\225
\021\216\041\200\265\275\240\163\330\320\262\167\304\105\352\132
\046\373\146\166\166\370\006\037\141\155\017\125\305\203\267\020
\126\162\006\007\245\363\261\032\003\005\144\016\235\132\212\326
\206\160\033\044\336\376\050\212\053\320\152\260\374\172\242\334
\262\171\016\213\145\017\002\003\001\000\001\243\143\060\141\060
\035\006\003\125\035\016\004\026\004\024\356\153\111\074\172\077
\015\343\261\011\267\212\310\253\031\237\163\063\120\347\060\037
\006\003\125\035\043\004\030\060\026\200\024\356\153\111\074\172
\077\015\343\261\011\267\212\310\253\031\237\163\063\120\347\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\206
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003
\202\001\001\000\045\030\324\221\217\023\356\217\036\035\021\123
\332\055\104\051\031\240\036\153\061\236\115\016\236\255\075\134
\101\157\225\053\044\241\171\230\072\070\066\373\273\146\236\110
\377\220\220\357\075\324\270\233\264\207\165\077\040\233\316\162
\317\241\125\301\115\144\242\031\006\241\007\063\014\013\051\345
\361\352\253\243\354\265\012\164\220\307\175\162\362\327\134\237
\221\357\221\213\267\334\355\146\242\317\216\146\073\274\237\072
\002\340\047\335\026\230\300\225\324\012\244\344\201\232\165\224
\065\234\220\137\210\067\006\255\131\225\012\260\321\147\323\031
\312\211\347\062\132\066\034\076\202\250\132\223\276\306\320\144
\221\266\317\331\266\030\317\333\176\322\145\243\246\304\216\027
\061\301\373\176\166\333\323\205\343\130\262\167\172\166\073\154
\057\120\034\347\333\366\147\171\037\365\202\225\232\007\247\024
\257\217\334\050\041\147\011\322\326\115\132\034\031\034\216\167

\134\303\224\044\075\062\153\113\176\324\170\224\203\276\067\115
\316\137\307\036\116\074\340\211\063\225\013\017\245\062\326\074
\132\171\054\031
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "TrustCor RootCert CA-1"
Issuer: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de
R.L.,L=Panama City,ST=Panama,C=PA
Serial Number:00:da:9b:ec:71:f3:03:b0:19
Subject: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de
R.L.,L=Panama City,ST=Panama,C=PA
Not Valid Before: Thu Feb 04 12:32:16 2016
Not Valid After : Mon Dec 31 17:23:16 2029
Fingerprint (SHA-256):
D4:0E:9C:86:CD:8F:E4:68:C1:77:69:59:F4:9E:A7:74:FA:54:86:84:B6:C4:06:F3:90:92:61:F4:DC:E2:57:5C
Fingerprint (SHA1): FF:BD:CD:E7:82:C8:43:5E:3C:6F:26:86:5C:CA:A8:3A:45:5B:C3:0A
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\377\275\315\347\202\310\103\136\074\157\046\206\134\312\250\072
\105\133\303\012
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\156\205\361\334\032\000\323\042\325\262\262\254\153\067\005\105
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\244\061\013\060\011\006\003\125\004\006\023\002\120\101
\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\101\055\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\332\233\354\161\363\003\260\031
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "TrustCor RootCert CA-2"
#
Issuer: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de
R.L.,L=Panama City,ST=Panama,C=PA
Serial Number:25:a1:df:ca:33:cb:59:02
Subject: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de
R.L.,L=Panama City,ST=Panama,C=PA
Not Valid Before: Thu Feb 04 12:32:23 2016
Not Valid After : Sun Dec 31 17:26:39 2034
Fingerprint (SHA-256):
07:53:E9:40:37:8C:1B:D5:E3:83:6E:39:5D:AE:A5:CB:83:9E:50:46:F1:BD:0E:AE:19:51:CF:10:FE:C7:C9:65
Fingerprint (SHA1): B8:BE:6D:CB:56:F1:55:B9:63:D4:12:CA:4E:06:34:C7:94:B2:1C:C0
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\244\061\013\060\011\006\003\125\004\006\023\002\120\101
\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\101\055\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\244\061\013\060\011\006\003\125\004\006\023\002\120\101
\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145

\162\164\040\103\101\055\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\045\241\337\312\063\313\131\002
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\057\060\202\004\027\240\003\002\001\002\002\010\045
\241\337\312\063\313\131\002\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\201\244\061\013\060\011\006\003\125
\004\006\023\002\120\101\061\017\060\015\006\003\125\004\010\014
\006\120\141\156\141\155\141\061\024\060\022\006\003\125\004\007
\014\013\120\141\156\141\155\141\040\103\151\164\171\061\044\060
\042\006\003\125\004\012\014\033\124\162\165\163\164\103\157\162
\040\123\171\163\164\145\155\163\040\123\056\040\144\145\040\122
\056\114\056\061\047\060\045\006\003\125\004\013\014\036\124\162
\165\163\164\103\157\162\040\103\145\162\164\151\146\151\143\141
\164\145\040\101\165\164\150\157\162\151\164\171\061\037\060\035
\006\003\125\004\003\014\026\124\162\165\163\164\103\157\162\040
\122\157\157\164\103\145\162\164\040\103\101\055\062\060\036\027
\015\061\066\060\062\060\064\061\062\063\062\062\063\132\027\015
\063\064\061\062\063\061\061\067\062\066\063\071\132\060\201\244
\061\013\060\011\006\003\125\004\006\023\002\120\101\061\017\060
\015\006\003\125\004\010\014\006\120\141\156\141\155\141\061\024
\060\022\006\003\125\004\007\014\013\120\141\156\141\155\141\040
\103\151\164\171\061\044\060\042\006\003\125\004\012\014\033\124
\162\165\163\164\103\157\162\040\123\171\163\164\145\155\163\040
\123\056\040\144\145\040\122\056\114\056\061\047\060\045\006\003
\125\004\013\014\036\124\162\165\163\164\103\157\162\040\103\145
\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162
\151\164\171\061\037\060\035\006\003\125\004\003\014\026\124\162
\165\163\164\103\157\162\040\122\157\157\164\103\145\162\164\040
\103\101\055\062\060\202\002\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012
\002\202\002\001\000\247\040\156\302\052\242\142\044\225\220\166
\310\070\176\200\322\253\301\233\145\005\224\364\301\012\020\325
\002\254\355\237\223\307\207\310\260\047\053\102\014\075\012\076
\101\132\236\165\335\215\312\340\233\354\150\062\244\151\222\150
\214\013\201\016\126\240\076\032\335\054\045\024\202\057\227\323
\144\106\364\124\251\334\072\124\055\061\053\231\202\362\331\052
\327\357\161\000\270\061\244\276\172\044\007\303\102\040\362\212
\324\222\004\033\145\126\114\154\324\373\266\141\132\107\043\264
\330\151\264\267\072\320\164\074\014\165\241\214\116\166\241\351
\333\052\245\073\372\316\260\377\176\152\050\375\047\034\310\261
\351\051\361\127\156\144\264\320\301\025\155\016\276\056\016\106
\310\136\364\121\376\357\016\143\072\073\161\272\317\157\131\312
\014\343\233\135\111\270\114\342\127\261\230\212\102\127\234\166
\357\357\275\321\150\250\322\364\011\273\167\065\276\045\202\010
\304\026\054\104\040\126\251\104\021\167\357\135\264\035\252\136

\153\076\213\062\366\007\057\127\004\222\312\365\376\235\302\351
\350\263\216\114\113\002\061\331\344\074\110\202\047\367\030\202
\166\110\072\161\261\023\241\071\325\056\305\064\302\035\142\205
\337\003\376\115\364\257\075\337\134\133\215\372\160\341\245\176
\047\307\206\056\152\217\022\306\204\136\103\121\120\234\031\233
\170\346\374\366\355\107\176\173\075\146\357\023\023\210\137\074
\241\143\373\371\254\207\065\237\363\202\236\244\077\012\234\061
\151\213\231\244\210\112\216\156\146\115\357\026\304\017\171\050
\041\140\015\205\026\175\327\124\070\361\222\126\375\265\063\114
\203\334\327\020\237\113\375\306\370\102\275\272\174\163\002\340
\377\175\315\133\341\324\254\141\173\127\325\112\173\133\324\205
\130\047\135\277\370\053\140\254\240\046\256\024\041\047\306\167
\232\063\200\074\136\106\077\367\303\261\243\206\063\306\350\136
\015\271\065\054\252\106\301\205\002\165\200\240\353\044\373\025
\252\344\147\177\156\167\077\364\004\212\057\174\173\343\027\141
\360\335\011\251\040\310\276\011\244\320\176\104\303\262\060\112
\070\252\251\354\030\232\007\202\053\333\270\234\030\255\332\340
\106\027\254\317\135\002\003\001\000\001\243\143\060\141\060\035
\006\003\125\035\016\004\026\004\024\331\376\041\100\156\224\236
\274\233\075\234\175\230\040\031\345\214\060\142\262\060\037\006
\003\125\035\043\004\030\060\026\200\024\331\376\041\100\156\224
\236\274\233\075\234\175\230\040\031\345\214\060\142\262\060\017
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202
\002\001\000\236\105\236\014\073\266\357\341\072\310\174\321\000
\075\317\342\352\006\265\262\072\273\006\113\150\172\320\043\227
\164\247\054\360\010\330\171\132\327\132\204\212\330\022\232\033
\331\175\134\115\160\305\245\371\253\345\243\211\211\335\001\372
\354\335\371\351\222\227\333\260\106\102\363\323\142\252\225\376
\061\147\024\151\130\220\012\252\013\356\067\043\307\120\121\264
\365\176\236\343\173\367\344\314\102\062\055\111\014\313\377\111
\014\233\036\064\375\156\156\226\212\171\003\266\157\333\011\313
\375\137\145\024\067\341\070\365\363\141\026\130\344\265\155\015
\013\004\033\077\120\055\177\263\307\172\032\026\200\140\370\212
\037\351\033\052\306\371\272\001\032\151\277\322\130\307\124\127
\010\217\341\071\140\167\113\254\131\204\032\210\361\335\313\117
\170\327\347\341\063\055\374\356\101\372\040\260\276\313\367\070
\224\300\341\320\205\017\273\355\054\163\253\355\376\222\166\032
\144\177\133\015\063\011\007\063\173\006\077\021\244\134\160\074
\205\300\317\343\220\250\203\167\372\333\346\305\214\150\147\020
\147\245\122\055\360\304\231\217\177\277\321\153\342\265\107\326
\331\320\205\231\115\224\233\017\113\215\356\000\132\107\035\021
\003\254\101\030\257\207\267\157\014\072\217\312\317\334\003\301
\242\011\310\345\375\200\136\310\140\102\001\033\032\123\132\273
\067\246\267\274\272\204\351\036\154\032\324\144\332\324\103\376
\223\213\113\362\054\171\026\020\324\223\013\210\217\241\330\206
\024\106\221\107\233\050\044\357\127\122\116\134\102\234\252\367

\111\354\047\350\100\036\263\246\211\042\162\234\365\015\063\264
\130\243\060\073\335\324\152\124\223\276\032\115\363\223\224\367
\374\204\013\077\204\040\134\064\003\104\305\332\255\274\012\301
\002\317\036\345\224\331\363\216\133\330\114\360\235\354\141\027
\273\024\062\124\014\002\051\223\036\222\206\366\177\357\347\222
\005\016\131\335\231\010\056\056\372\234\000\122\323\305\146\051
\344\247\227\104\244\016\050\201\023\065\305\366\157\144\346\101
\304\325\057\314\064\105\045\317\101\000\226\075\112\056\302\226
\230\117\116\112\234\227\267\333\037\222\062\310\377\017\121\156
\326\354\011
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "TrustCor RootCert CA-2"
Issuer: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de
R.L.,L=Panama City,ST=Panama,C=PA
Serial Number:25:a1:df:ca:33:cb:59:02
Subject: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de
R.L.,L=Panama City,ST=Panama,C=PA
Not Valid Before: Thu Feb 04 12:32:23 2016
Not Valid After : Sun Dec 31 17:26:39 2034
Fingerprint (SHA-256):
07:53:E9:40:37:8C:1B:D5:E3:83:6E:39:5D:AE:A5:CB:83:9E:50:46:F1:BD:0E:AE:19:51:CF:10:FE:C7:C9:65
Fingerprint (SHA1): B8:BE:6D:CB:56:F1:55:B9:63:D4:12:CA:4E:06:34:C7:94:B2:1C:C0
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\270\276\155\313\126\361\125\271\143\324\022\312\116\006\064\307
\224\262\034\300
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\242\341\370\030\013\272\105\325\307\101\052\273\067\122\105\144
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\244\061\013\060\011\006\003\125\004\006\023\002\120\101
\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014

\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\101\055\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\045\241\337\312\063\313\131\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "TrustCor ECA-1"
#
Issuer: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
Serial Number:00:84:82:2c:5f:1c:62:d0:40
Subject: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
Not Valid Before: Thu Feb 04 12:32:33 2016
Not Valid After : Mon Dec 31 17:28:07 2029
Fingerprint (SHA-256):
5A:88:5D:B1:9C:01:D9:12:C5:75:93:88:93:8C:AF:BB:DF:03:1A:B2:D4:8E:91:EE:15:58:9B:42:97:1D:03:9C
Fingerprint (SHA1): 58:D1:DF:95:95:67:6B:63:C0:F0:5B:1C:17:4D:8B:84:0B:C8:78:BD
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor ECA-1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\234\061\013\060\011\006\003\125\004\006\023\002\120\101
\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\027\060\025\006\003\125\004\003\014
\016\124\162\165\163\164\103\157\162\040\105\103\101\055\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\234\061\013\060\011\006\003\125\004\006\023\002\120\101
\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012

\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\027\060\025\006\003\125\004\003\014
\016\124\162\165\163\164\103\157\162\040\105\103\101\055\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\204\202\054\137\034\142\320\100
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\040\060\202\003\010\240\003\002\001\002\002\011\000
\204\202\054\137\034\142\320\100\060\015\006\011\052\206\110\206
\367\015\001\001\013\005\000\060\201\234\061\013\060\011\006\003
\125\004\006\023\002\120\101\061\017\060\015\006\003\125\004\010
\014\006\120\141\156\141\155\141\061\024\060\022\006\003\125\004
\007\014\013\120\141\156\141\155\141\040\103\151\164\171\061\044
\060\042\006\003\125\004\012\014\033\124\162\165\163\164\103\157
\162\040\123\171\163\164\145\155\163\040\123\056\040\144\145\040
\122\056\114\056\061\047\060\045\006\003\125\004\013\014\036\124
\162\165\163\164\103\157\162\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\061\027\060
\025\006\003\125\004\003\014\016\124\162\165\163\164\103\157\162
\040\105\103\101\055\061\060\036\027\015\061\066\060\062\060\064
\061\062\063\062\063\063\132\027\015\062\071\061\062\063\061\061
\067\062\070\060\067\132\060\201\234\061\013\060\011\006\003\125
\004\006\023\002\120\101\061\017\060\015\006\003\125\004\010\014
\006\120\141\156\141\155\141\061\024\060\022\006\003\125\004\007
\014\013\120\141\156\141\155\141\040\103\151\164\171\061\044\060
\042\006\003\125\004\012\014\033\124\162\165\163\164\103\157\162
\040\123\171\163\164\145\155\163\040\123\056\040\144\145\040\122
\056\114\056\061\047\060\045\006\003\125\004\013\014\036\124\162
\165\163\164\103\157\162\040\103\145\162\164\151\146\151\143\141
\164\145\040\101\165\164\150\157\162\151\164\171\061\027\060\025
\006\003\125\004\003\014\016\124\162\165\163\164\103\157\162\040
\105\103\101\055\061\060\202\001\042\060\015\006\011\052\206\110
\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001
\012\002\202\001\001\000\317\217\340\021\265\237\250\166\166\333
\337\017\124\357\163\143\051\202\255\107\306\243\153\355\376\137
\063\370\103\121\351\032\063\221\061\027\240\164\304\324\247\001
\346\262\222\076\152\235\355\016\371\164\230\100\323\077\003\200
\006\202\100\350\261\342\247\121\247\035\203\046\153\253\336\372
\027\221\053\330\306\254\036\261\236\031\001\325\227\246\352\015
\267\304\125\037\047\174\322\010\325\166\037\051\025\207\100\071
\335\070\105\021\165\320\232\247\064\340\277\315\310\122\035\271
\107\176\015\270\273\306\014\366\163\127\026\132\176\103\221\037
\125\072\306\155\104\004\252\234\251\234\247\114\211\027\203\256
\243\004\136\122\200\213\036\022\045\021\031\327\014\175\175\061

\104\101\352\333\257\260\034\357\201\320\054\305\232\041\233\075
\355\102\073\120\046\362\354\316\161\141\006\142\041\124\116\177
\301\235\076\177\040\214\200\313\052\330\227\142\310\203\063\221
\175\260\242\132\017\127\350\073\314\362\045\262\324\174\057\354
\115\306\241\072\025\172\347\266\135\065\365\366\110\112\066\105
\146\324\272\230\130\301\002\003\001\000\001\243\143\060\141\060
\035\006\003\125\035\016\004\026\004\024\104\236\110\365\314\155
\110\324\240\113\177\376\131\044\057\203\227\231\232\206\060\037
\006\003\125\035\043\004\030\060\026\200\024\104\236\110\365\314
\155\110\324\240\113\177\376\131\044\057\203\227\231\232\206\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\206
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003
\202\001\001\000\005\076\065\134\025\160\233\311\307\163\141\157
\162\053\324\302\217\362\103\135\002\316\304\224\271\224\021\203
\147\135\342\147\154\165\166\277\273\014\252\066\306\255\107\223
\143\334\036\176\326\336\056\376\351\031\062\070\003\177\024\366
\000\163\054\131\261\041\006\341\373\254\030\225\014\243\377\231
\226\367\053\047\233\325\044\314\035\335\301\072\340\230\104\260
\304\344\076\167\261\163\251\144\054\366\034\001\174\077\135\105
\205\300\205\347\045\217\225\334\027\363\074\237\032\156\260\312
\343\035\052\351\114\143\372\044\141\142\326\332\176\266\034\154
\365\002\035\324\052\335\125\220\353\052\021\107\074\056\136\164
\262\202\042\245\175\123\037\105\354\047\221\175\347\042\026\350
\300\150\066\330\306\361\117\200\104\062\371\341\321\321\035\252
\336\250\253\234\004\257\255\040\016\144\230\115\245\153\300\110
\130\226\151\115\334\007\214\121\223\242\337\237\017\075\213\140
\264\202\215\252\010\116\142\105\340\371\013\322\340\340\074\133
\336\134\161\047\045\302\346\003\201\213\020\123\343\307\125\242
\264\237\327\346
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "TrustCor ECA-1"
Issuer: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
Serial Number:00:84:82:2c:5f:1c:62:d0:40
Subject: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
Not Valid Before: Thu Feb 04 12:32:33 2016
Not Valid After : Mon Dec 31 17:28:07 2029
Fingerprint (SHA-256):
5A:88:5D:B1:9C:01:D9:12:C5:75:93:88:93:8C:AF:BB:DF:03:1A:B2:D4:8E:91:EE:15:58:9B:42:97:1D:03:9C
Fingerprint (SHA1): 58:D1:DF:95:95:67:6B:63:C0:F0:5B:1C:17:4D:8B:84:0B:C8:78:BD
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor ECA-1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\130\321\337\225\225\147\153\143\300\360\133\034\027\115\213\204
\013\310\170\275
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\047\222\043\035\012\365\100\174\351\346\153\235\330\365\347\154
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\234\061\013\060\011\006\003\125\004\006\023\002\120\101
\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\027\060\025\006\003\125\004\003\014
\016\124\162\165\163\164\103\157\162\040\105\103\101\055\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\204\202\054\137\034\142\320\100
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "SSL.com Root Certification Authority RSA"
#
Issuer: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
Serial Number:7b:2c:9b:d3:16:80:32:99
Subject: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
Not Valid Before: Fri Feb 12 17:39:39 2016
Not Valid After : Tue Feb 12 17:39:39 2041
Fingerprint (SHA-256):
85:66:6A:56:2E:E0:BE:5C:E9:25:C1:D8:89:0A:6F:76:A8:7E:C1:6D:4D:7D:5F:29:EA:74:19:CF:20:12:3B:69
Fingerprint (SHA1): B7:AB:33:08:D1:EA:44:77:BA:14:80:12:5A:6F:BD:A9:36:49:0C:BB
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority RSA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\122\123\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\122\123\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\173\054\233\323\026\200\062\231
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\335\060\202\003\305\240\003\002\001\002\002\010\173
\054\233\323\026\200\062\231\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\174\061\013\060\011\006\003\125\004
\006\023\002\125\123\061\016\060\014\006\003\125\004\010\014\005
\124\145\170\141\163\061\020\060\016\006\003\125\004\007\014\007
\110\157\165\163\164\157\156\061\030\060\026\006\003\125\004\012
\014\017\123\123\114\040\103\157\162\160\157\162\141\164\151\157
\156\061\061\060\057\006\003\125\004\003\014\050\123\123\114\056
\143\157\155\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\122\123\101\060\036\027\015\061\066\060\062\061\062\061\067
\063\071\063\071\132\027\015\064\061\060\062\061\062\061\067\063
\071\063\071\132\060\174\061\013\060\011\006\003\125\004\006\023
\002\125\123\061\016\060\014\006\003\125\004\010\014\005\124\145
\170\141\163\061\020\060\016\006\003\125\004\007\014\007\110\157
\165\163\164\157\156\061\030\060\026\006\003\125\004\012\014\017
\123\123\114\040\103\157\162\160\157\162\141\164\151\157\156\061
\061\060\057\006\003\125\004\003\014\050\123\123\114\056\143\157
\155\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122
\123\101\060\202\002\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202
\002\001\000\371\017\335\243\053\175\313\320\052\376\354\147\205
\246\347\056\033\272\167\341\343\365\257\244\354\372\112\135\221

\304\127\107\153\030\167\153\166\362\375\223\344\075\017\302\026
\236\013\146\303\126\224\236\027\203\205\316\126\357\362\026\375
\000\142\365\042\011\124\350\145\027\116\101\271\340\117\106\227
\252\033\310\270\156\142\136\151\261\137\333\052\002\176\374\154
\312\363\101\330\355\320\350\374\077\141\110\355\260\003\024\035
\020\016\113\031\340\273\116\354\206\145\377\066\363\136\147\002
\013\235\206\125\141\375\172\070\355\376\342\031\000\267\157\241
\120\142\165\164\074\240\372\310\045\222\264\156\172\042\307\370
\036\241\343\262\335\221\061\253\053\035\004\377\245\112\004\067
\351\205\244\063\053\375\342\326\125\064\174\031\244\112\150\307
\262\250\323\267\312\241\223\210\353\301\227\274\214\371\035\331
\042\204\044\164\307\004\075\152\251\051\223\314\353\270\133\341
\376\137\045\252\064\130\310\301\043\124\235\033\230\021\303\070
\234\176\075\206\154\245\017\100\206\174\002\364\134\002\117\050
\313\256\161\237\017\072\310\063\376\021\045\065\352\374\272\305
\140\075\331\174\030\325\262\251\323\165\170\003\162\042\312\072
\303\037\357\054\345\056\251\372\236\054\266\121\106\375\257\003
\326\352\140\150\352\205\026\066\153\205\351\036\300\263\335\304
\044\334\200\052\201\101\155\224\076\310\340\311\201\101\000\236
\136\277\177\305\010\230\242\030\054\102\100\263\371\157\070\047
\113\116\200\364\075\201\107\340\210\174\352\034\316\265\165\134
\121\056\034\053\177\032\162\050\347\000\265\321\164\306\327\344
\237\255\007\223\266\123\065\065\374\067\344\303\366\135\026\276
\041\163\336\222\012\370\240\143\152\274\226\222\152\076\370\274
\145\125\233\336\365\015\211\046\004\374\045\032\246\045\151\313
\302\155\312\174\342\131\137\227\254\353\357\056\310\274\327\033
\131\074\053\314\362\031\310\223\153\047\143\031\317\374\351\046
\370\312\161\233\177\223\376\064\147\204\116\231\353\374\263\170
\011\063\160\272\146\246\166\355\033\163\353\032\245\015\304\042
\023\040\224\126\012\116\054\154\116\261\375\317\234\011\272\242
\063\355\207\002\003\001\000\001\243\143\060\141\060\035\006\003
\125\035\016\004\026\004\024\335\004\011\007\242\365\172\175\122
\123\022\222\225\356\070\200\045\015\246\131\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\037\006\003
\125\035\043\004\030\060\026\200\024\335\004\011\007\242\365\172
\175\122\123\022\222\225\356\070\200\045\015\246\131\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\206\060\015\006
\011\052\206\110\206\367\015\001\001\013\005\000\003\202\002\001
\000\040\030\021\224\051\373\046\235\034\036\036\160\141\361\225
\162\223\161\044\255\150\223\130\216\062\257\033\263\160\003\374
\045\053\164\205\220\075\170\152\364\271\213\245\227\073\265\030
\221\273\036\247\371\100\133\221\371\125\231\257\036\021\320\134
\035\247\146\343\261\224\007\014\062\071\246\352\033\260\171\330
\035\234\160\104\343\212\335\304\371\225\037\212\070\103\077\001
\205\245\107\247\075\106\262\274\345\042\150\367\173\234\330\054
\076\012\041\310\055\063\254\277\305\201\231\061\164\301\165\161
\305\276\261\360\043\105\364\235\153\374\031\143\235\243\274\004
\306\030\013\045\273\123\211\017\263\200\120\336\105\356\104\177

\253\224\170\144\230\323\366\050\335\207\330\160\145\164\373\016
\271\023\353\247\017\141\251\062\226\314\336\273\355\143\114\030
\273\251\100\367\240\124\156\040\210\161\165\030\352\172\264\064
\162\340\043\047\167\134\266\220\352\206\045\100\253\357\063\017
\313\237\202\276\242\040\373\366\265\055\032\346\302\205\261\164
\017\373\310\145\002\244\122\001\107\335\111\042\301\277\330\353
\153\254\176\336\354\143\063\025\267\043\010\217\306\017\215\101
\132\335\216\305\271\217\345\105\077\170\333\272\322\033\100\261
\376\161\115\077\340\201\242\272\136\264\354\025\340\223\335\010
\037\176\341\125\231\013\041\336\223\236\012\373\346\243\111\275
\066\060\376\347\167\262\240\165\227\265\055\201\210\027\145\040
\367\332\220\000\237\311\122\314\062\312\065\174\365\075\017\330
\053\327\365\046\154\311\006\064\226\026\352\160\131\032\062\171
\171\013\266\210\177\017\122\110\075\277\154\330\242\104\056\321
\116\267\162\130\323\211\023\225\376\104\253\370\327\213\033\156
\234\274\054\240\133\325\152\000\257\137\067\341\325\372\020\013
\230\234\206\347\046\217\316\360\354\156\212\127\013\200\343\116
\262\300\240\143\141\220\272\125\150\067\164\152\266\222\333\237
\241\206\042\266\145\047\016\354\266\237\102\140\344\147\302\265
\332\101\013\304\323\213\141\033\274\372\037\221\053\327\104\007
\136\272\051\254\331\305\351\357\123\110\132\353\200\361\050\130
\041\315\260\006\125\373\047\077\123\220\160\251\004\036\127\047
\271
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "SSL.com Root Certification Authority RSA"
Issuer: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
Serial Number:7b:2c:9b:d3:16:80:32:99
Subject: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
Not Valid Before: Fri Feb 12 17:39:39 2016
Not Valid After : Tue Feb 12 17:39:39 2041
Fingerprint (SHA-256):
85:66:6A:56:2E:E0:BE:5C:E9:25:C1:D8:89:0A:6F:76:A8:7E:C1:6D:4D:7D:5F:29:EA:74:19:CF:20:12:3B:69
Fingerprint (SHA1): B7:AB:33:08:D1:EA:44:77:BA:14:80:12:5A:6F:BD:A9:36:49:0C:BB
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority RSA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\267\253\063\010\321\352\104\167\272\024\200\022\132\157\275\251
\066\111\014\273
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\206\151\022\300\160\361\354\254\254\302\325\274\245\133\241\051

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END
CKA_ISSUER MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\122\123\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\173\054\233\323\026\200\062\231
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "SSL.com Root Certification Authority ECC"
#
# Issuer: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:75:e6:df:cb:c1:68:5b:a8
# Subject: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Fri Feb 12 18:14:03 2016
# Not Valid After : Tue Feb 12 18:14:03 2041
# Fingerprint (SHA-256):
34:17:BB:06:CC:60:07:DA:1B:96:1C:92:0B:8A:B4:CE:3F:AD:82:0E:4A:A3:0B:9A:CB:C4:A7:4E:BD:CE:BC:65
# Fingerprint (SHA1): C3:19:7C:39:24:E6:54:AF:1B:C4:AB:20:95:7A:E2:C3:0E:13:02:6A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority ECC"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\105\103\103
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
```

\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\105\103\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\165\346\337\313\301\150\133\250
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\215\060\202\002\024\240\003\002\001\002\002\010\165
\346\337\313\301\150\133\250\060\012\006\010\052\206\110\316\075
\004\003\002\060\174\061\013\060\011\006\003\125\004\006\023\002
\125\123\061\016\060\014\006\003\125\004\010\014\005\124\145\170
\141\163\061\020\060\016\006\003\125\004\007\014\007\110\157\165
\163\164\157\156\061\030\060\026\006\003\125\004\012\014\017\123
\123\114\040\103\157\162\160\157\162\141\164\151\157\156\061\061
\060\057\006\003\125\004\003\014\050\123\123\114\056\143\157\155
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\105\103
\103\060\036\027\015\061\066\060\062\061\062\061\070\061\064\060
\063\132\027\015\064\061\060\062\061\062\061\070\061\064\060\063
\132\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163
\061\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164
\157\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114
\040\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057
\006\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122
\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\040\105\103\103\060
\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201
\004\000\042\003\142\000\004\105\156\251\120\304\246\043\066\236
\137\050\215\027\313\226\042\144\077\334\172\216\035\314\010\263
\242\161\044\272\216\111\271\004\033\107\226\130\253\055\225\310
\355\236\010\065\310\047\353\211\214\123\130\353\142\212\376\360
\133\017\153\061\122\143\101\073\211\315\354\354\266\215\031\323
\064\007\334\273\306\006\177\302\105\225\354\313\177\250\043\340
\011\351\201\372\363\107\323\243\143\060\141\060\035\006\003\125
\035\016\004\026\004\024\202\321\205\163\060\347\065\004\323\216
\002\222\373\345\244\321\304\041\350\315\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\037\006\003\125
\035\043\004\030\060\026\200\024\202\321\205\163\060\347\065\004
\323\216\002\222\373\345\244\321\304\041\350\315\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\206\060\012\006\010
\052\206\110\316\075\004\003\002\003\147\000\060\144\002\060\157

\347\353\131\021\244\140\317\141\260\226\173\355\005\371\057\023
\221\334\355\345\374\120\153\021\106\106\263\034\041\000\142\273
\276\303\347\350\315\007\231\371\015\013\135\162\076\304\252\002
\060\037\274\272\013\342\060\044\373\174\155\200\125\012\231\076
\200\015\063\345\146\243\263\243\273\245\325\213\217\011\054\246
\135\176\342\360\007\010\150\155\322\174\151\156\137\337\345\152
\145
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "SSL.com Root Certification Authority ECC"
Issuer: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
Serial Number:75:e6:df:cb:c1:68:5b:a8
Subject: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
Not Valid Before: Fri Feb 12 18:14:03 2016
Not Valid After : Tue Feb 12 18:14:03 2041
Fingerprint (SHA-256):
34:17:BB:06:CC:60:07:DA:1B:96:1C:92:0B:8A:B4:CE:3F:AD:82:0E:4A:A3:0B:9A:CB:C4:A7:4E:BD:CE:BC:65
Fingerprint (SHA1): C3:19:7C:39:24:E6:54:AF:1B:C4:AB:20:95:7A:E2:C3:0E:13:02:6A
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority ECC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\303\031\174\071\044\346\124\257\033\304\253\040\225\172\342\303
\016\023\002\152
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\056\332\344\071\177\234\217\067\321\160\237\046\027\121\072\216
END
CKA_ISSUER MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\105\103\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\165\346\337\313\301\150\133\250
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

```
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "SSL.com EV Root Certification Authority RSA R2"
#
# Issuer: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:56:b6:29:cd:34:bc:78:f6
# Subject: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL
Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Wed May 31 18:14:37 2017
# Not Valid After : Fri May 30 18:14:37 2042
# Fingerprint (SHA-256):
2E:7B:F1:6C:C2:24:85:A7:BB:E2:AA:86:96:75:07:61:B0:AE:39:BE:3B:2F:E9:D0:CC:6D:4E:F7:34:91:42:5C
# Fingerprint (SHA1): 74:3A:F0:52:9B:D0:32:A0:F4:4A:83:CD:D4:BA:A9:7B:7C:2E:C4:9A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority RSA R2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163
\061\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164
\157\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114
\040\103\157\162\160\157\162\141\164\151\157\156\061\067\060\065
\006\003\125\004\003\014\056\123\123\114\056\143\157\155\040\105
\126\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122
\123\101\040\122\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163
\061\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164
\157\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114
\040\103\157\162\160\157\162\141\164\151\157\156\061\067\060\065
\006\003\125\004\003\014\056\123\123\114\056\143\157\155\040\105
\126\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122
\123\101\040\122\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\126\266\051\315\064\274\170\366
END
CKA_VALUE MULTILINE_OCTAL
```

\060\202\005\353\060\202\003\323\240\003\002\001\002\002\010\126
\266\051\315\064\274\170\366\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\201\202\061\013\060\011\006\003\125
\004\006\023\002\125\123\061\016\060\014\006\003\125\004\010\014
\005\124\145\170\141\163\061\020\060\016\006\003\125\004\007\014
\007\110\157\165\163\164\157\156\061\030\060\026\006\003\125\004
\012\014\017\123\123\114\040\103\157\162\160\157\162\141\164\151
\157\156\061\067\060\065\006\003\125\004\003\014\056\123\123\114
\056\143\157\155\040\105\126\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171\040\122\123\101\040\122\062\060\036\027\015\061
\067\060\065\063\061\061\070\061\064\063\067\132\027\015\064\062
\060\065\063\060\061\070\061\064\063\067\132\060\201\202\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\016\060\014\006
\003\125\004\010\014\005\124\145\170\141\163\061\020\060\016\006
\003\125\004\007\014\007\110\157\165\163\164\157\156\061\030\060
\026\006\003\125\004\012\014\017\123\123\114\040\103\157\162\160
\157\162\141\164\151\157\156\061\067\060\065\006\003\125\004\003
\014\056\123\123\114\056\143\157\155\040\105\126\040\122\157\157
\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\101\165\164\150\157\162\151\164\171\040\122\123\101\040\122\062
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001
\000\217\066\145\100\341\326\115\300\327\264\351\106\332\153\352
\063\107\315\114\371\175\175\276\275\055\075\360\333\170\341\206
\245\331\272\011\127\150\355\127\076\240\320\010\101\203\347\050
\101\044\037\343\162\025\320\001\032\373\136\160\043\262\313\237
\071\343\317\305\116\306\222\155\046\306\173\273\263\332\047\235
\012\206\351\201\067\005\376\360\161\161\354\303\034\351\143\242
\027\024\235\357\033\147\323\205\125\002\002\326\111\311\314\132
\341\261\367\157\062\237\311\324\073\210\101\250\234\275\313\253
\333\155\173\011\037\242\114\162\220\332\053\010\374\317\074\124
\316\147\017\250\317\135\226\031\013\304\343\162\353\255\321\175
\035\047\357\222\353\020\277\133\353\073\257\317\200\335\301\322
\226\004\133\172\176\244\251\074\070\166\244\142\216\240\071\136
\352\167\317\135\000\131\217\146\054\076\007\242\243\005\046\021
\151\227\352\205\267\017\226\013\113\310\100\341\120\272\056\212
\313\367\017\232\042\347\177\232\067\023\315\362\115\023\153\041
\321\300\314\042\362\241\106\366\104\151\234\312\141\065\007\000
\157\326\141\010\021\352\272\270\366\351\263\140\345\115\271\354
\237\024\146\311\127\130\333\315\207\151\370\212\206\022\003\107
\277\146\023\166\254\167\175\064\044\205\203\315\327\252\234\220
\032\237\041\054\177\170\267\144\270\330\350\246\364\170\263\125
\313\204\322\062\304\170\256\243\217\141\335\316\010\123\255\354
\210\374\025\344\232\015\346\237\032\167\316\114\217\270\024\025
\075\142\234\206\070\006\000\146\022\344\131\166\132\123\300\002
\230\242\020\053\150\104\173\216\171\316\063\112\166\252\133\201
\026\033\265\212\330\320\000\173\136\142\264\011\326\206\143\016

\246\005\225\111\272\050\213\210\223\262\064\034\330\244\125\156
\267\034\320\336\231\125\073\043\364\042\340\371\051\146\046\354
\040\120\167\333\112\013\217\276\345\002\140\160\101\136\324\256
\120\071\042\024\046\313\262\073\163\164\125\107\007\171\201\071
\250\060\023\104\345\004\212\256\226\023\045\102\017\271\123\304
\233\374\315\344\034\336\074\372\253\326\006\112\037\147\246\230
\060\034\335\054\333\334\030\225\127\146\306\377\134\213\126\365
\167\002\003\001\000\001\243\143\060\141\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\037\006\003\125
\035\043\004\030\060\026\200\024\371\140\273\324\343\325\064\366
\270\365\006\200\045\247\163\333\106\151\250\236\060\035\006\003
\125\035\016\004\026\004\024\371\140\273\324\343\325\064\366\270
\365\006\200\045\247\163\333\106\151\250\236\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\206\060\015\006\011\052
\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\126
\263\216\313\012\235\111\216\277\244\304\221\273\146\027\005\121
\230\165\373\345\120\054\172\236\361\024\372\253\323\212\076\377
\221\051\217\143\213\330\264\251\124\001\015\276\223\206\057\371
\112\155\307\136\365\127\371\312\125\034\022\276\107\017\066\305
\337\152\267\333\165\302\107\045\177\271\361\143\370\150\055\125
\004\321\362\215\260\244\317\274\074\136\037\170\347\245\240\040
\160\260\004\305\267\367\162\247\336\042\015\275\063\045\106\214
\144\222\046\343\076\056\143\226\332\233\214\075\370\030\011\327
\003\314\175\206\202\340\312\004\007\121\120\327\377\222\325\014
\357\332\206\237\231\327\353\267\257\150\342\071\046\224\272\150
\267\277\203\323\352\172\147\075\142\147\256\045\345\162\350\342
\344\354\256\022\366\113\053\074\237\351\260\100\363\070\124\263
\375\267\150\310\332\306\217\121\074\262\373\221\334\034\347\233
\235\341\267\015\162\217\342\244\304\251\170\371\353\024\254\306
\103\005\302\145\071\050\030\002\303\202\262\235\005\276\145\355
\226\137\145\164\074\373\011\065\056\173\234\023\375\033\017\135
\307\155\201\072\126\017\314\073\341\257\002\057\042\254\106\312
\106\074\240\034\114\326\104\264\136\056\134\025\146\011\341\046
\051\376\306\122\141\272\261\163\377\303\014\234\345\154\152\224
\077\024\312\100\026\225\204\363\131\251\254\137\114\141\223\155
\321\073\314\242\225\014\042\246\147\147\104\056\271\331\322\212
\101\263\146\013\132\373\175\043\245\362\032\260\377\336\233\203
\224\056\321\077\337\222\267\221\257\005\073\145\307\240\154\261
\315\142\022\303\220\033\343\045\316\064\274\157\167\166\261\020
\303\367\005\032\300\326\257\164\142\110\027\167\222\151\220\141
\034\336\225\200\164\124\217\030\034\303\363\003\320\277\244\103
\165\206\123\030\172\012\056\011\034\066\237\221\375\202\212\042
\113\321\016\120\045\335\313\003\014\027\311\203\000\010\116\065
\115\212\213\355\360\002\224\146\054\104\177\313\225\047\226\027
\255\011\060\254\266\161\027\156\213\027\366\034\011\324\055\073
\230\245\161\323\124\023\331\140\363\365\113\146\117\372\361\356
\040\022\215\264\254\127\261\105\143\241\254\166\251\302\373
END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SSL.com EV Root Certification Authority RSA R2"
# Issuer: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:56:b6:29:cd:34:bc:78:f6
# Subject: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL
Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Wed May 31 18:14:37 2017
# Not Valid After : Fri May 30 18:14:37 2042
# Fingerprint (SHA-256):
2E:7B:F1:6C:C2:24:85:A7:BB:E2:AA:86:96:75:07:61:B0:AE:39:BE:3B:2F:E9:D0:CC:6D:4E:F7:34:91:42:5C
# Fingerprint (SHA1): 74:3A:F0:52:9B:D0:32:A0:F4:4A:83:CD:D4:BA:A9:7B:7C:2E:C4:9A
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority RSA R2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\164\072\360\122\233\320\062\240\364\112\203\315\324\272\251\173
\174\056\304\232
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\341\036\061\130\032\256\124\123\002\366\027\152\021\173\115\225
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163
\061\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164
\157\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114
\040\103\157\162\160\157\162\141\164\151\157\156\061\067\060\065
\006\003\125\004\003\014\056\123\123\114\056\143\157\155\040\105
\126\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122
\123\101\040\122\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\126\266\051\315\064\274\170\366
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "SSL.com EV Root Certification Authority ECC"
#
```

Issuer: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
Serial Number:2c:29:9c:5b:16:ed:05:95
Subject: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
Not Valid Before: Fri Feb 12 18:15:23 2016
Not Valid After : Tue Feb 12 18:15:23 2041
Fingerprint (SHA-256):
22:A2:C1:F7:BD:ED:70:4C:C1:E7:01:B5:F4:08:C3:10:88:0F:E9:56:B5:DE:2A:4A:44:F9:9C:87:3A:25:A7:C8
Fingerprint (SHA1): 4C:DD:51:A3:D1:F5:20:32:14:B0:C6:C5:32:23:03:91:C7:46:42:6D
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority ECC"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\064\060\062\006
\003\125\004\003\014\053\123\123\114\056\143\157\155\040\105\126
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\105\103
\103
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\064\060\062\006
\003\125\004\003\014\053\123\123\114\056\143\157\155\040\105\126
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\105\103
\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\054\051\234\133\026\355\005\225
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\224\060\202\002\032\240\003\002\001\002\002\010\054
\051\234\133\026\355\005\225\060\012\006\010\052\206\110\316\075
\004\003\002\060\177\061\013\060\011\006\003\125\004\006\023\002
\125\123\061\016\060\014\006\003\125\004\010\014\005\124\145\170
\141\163\061\020\060\016\006\003\125\004\007\014\007\110\157\165
\163\164\157\156\061\030\060\026\006\003\125\004\012\014\017\123
\123\114\040\103\157\162\160\157\162\141\164\151\157\156\061\064

\060\062\006\003\125\004\003\014\053\123\123\114\056\143\157\155
\040\105\126\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\105\103\103\060\036\027\015\061\066\060\062\061\062\061\070
\061\065\062\063\132\027\015\064\061\060\062\061\062\061\070\061
\065\062\063\132\060\177\061\013\060\011\006\003\125\004\006\023
\002\125\123\061\016\060\014\006\003\125\004\010\014\005\124\145
\170\141\163\061\020\060\016\006\003\125\004\007\014\007\110\157
\165\163\164\157\156\061\030\060\026\006\003\125\004\012\014\017
\123\123\114\040\103\157\162\160\157\162\141\164\151\157\156\061
\064\060\062\006\003\125\004\003\014\053\123\123\114\056\143\157
\155\040\105\126\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\040\105\103\103\060\166\060\020\006\007\052\206\110\316\075
\002\001\006\005\053\201\004\000\042\003\142\000\004\252\022\107
\220\230\033\373\357\303\100\007\203\040\116\361\060\202\242\006
\321\362\222\206\141\362\366\041\150\312\000\304\307\352\103\000
\124\206\334\375\037\337\000\270\101\142\134\334\160\026\062\336
\037\231\324\314\305\007\310\010\037\141\026\007\121\075\175\134
\007\123\343\065\070\214\337\315\237\331\056\015\112\266\031\056
\132\160\132\006\355\276\360\241\260\312\320\011\051\243\143\060
\141\060\035\006\003\125\035\016\004\026\004\024\133\312\136\345
\336\322\201\252\315\250\055\144\121\266\331\162\233\227\346\117
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\037\006\003\125\035\043\004\030\060\026\200\024\133\312
\136\345\336\322\201\252\315\250\055\144\121\266\331\162\233\227
\346\117\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\206\060\012\006\010\052\206\110\316\075\004\003\002\003\150
\000\060\145\002\061\000\212\346\100\211\067\353\351\325\023\331
\312\324\153\044\363\260\075\207\106\130\032\354\261\337\157\373
\126\272\160\153\307\070\314\350\261\214\117\017\367\361\147\166
\016\203\320\036\121\217\002\060\075\366\043\050\046\114\306\140
\207\223\046\233\262\065\036\272\326\367\074\321\034\316\372\045
\074\246\032\201\025\133\363\022\017\154\356\145\212\311\207\250
\371\007\340\142\232\214\134\112
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "SSL.com EV Root Certification Authority ECC"
Issuer: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
Serial Number:2c:29:9c:5b:16:ed:05:95
Subject: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
Not Valid Before: Fri Feb 12 18:15:23 2016
Not Valid After : Tue Feb 12 18:15:23 2041
Fingerprint (SHA-256):
22:A2:C1:F7:BD:ED:70:4C:C1:E7:01:B5:F4:08:C3:10:88:0F:E9:56:B5:DE:2A:4A:44:F9:9C:87:3A:25:A7:C8

```
# Fingerprint (SHA1): 4C:DD:51:A3:D1:F5:20:32:14:B0:C6:C5:32:23:03:91:C7:46:42:6D
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority ECC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\114\335\121\243\321\365\040\062\024\260\306\305\062\043\003\221
\307\106\102\155
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\131\123\042\145\203\102\001\124\300\316\102\271\132\174\362\220
END
CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\064\060\062\006
\003\125\004\003\014\053\123\123\114\056\143\157\155\040\105\126
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\105\103
\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\054\051\234\133\026\355\005\225
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "GlobalSign Root CA - R6"
#
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Serial Number:45:e6:bb:03:83:33:c3:85:65:48:e6:ff:45:51
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Not Valid Before: Wed Dec 10 00:00:00 2014
# Not Valid After : Sun Dec 10 00:00:00 2034
# Fingerprint (SHA-256):
2C:AB:EA:FE:37:D0:6C:A2:2A:BA:73:91:C0:03:3D:25:98:29:52:C4:53:64:73:49:76:3A:3A:B5:AD:6C:CF:69
# Fingerprint (SHA1): 80:94:64:0E:B5:A7:A1:CA:11:9C:1F:DD:D5:9F:81:02:63:A7:FB:D1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R6"
```

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\066\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\066\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\016\105\346\273\003\203\063\303\205\145\110\346\377\105\121
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\203\060\202\003\153\240\003\002\001\002\002\016\105
\346\273\003\203\063\303\205\145\110\346\377\105\121\060\015\006
\011\052\206\110\206\367\015\001\001\014\005\000\060\114\061\040
\060\036\006\003\125\004\013\023\027\107\154\157\142\141\154\123
\151\147\156\040\122\157\157\164\040\103\101\040\055\040\122\066
\061\023\060\021\006\003\125\004\012\023\012\107\154\157\142\141
\154\123\151\147\156\061\023\060\021\006\003\125\004\003\023\012
\107\154\157\142\141\154\123\151\147\156\060\036\027\015\061\064
\061\062\061\060\060\060\060\060\060\060\132\027\015\063\064\061
\062\061\060\060\060\060\060\060\060\132\060\114\061\040\060\036
\006\003\125\004\013\023\027\107\154\157\142\141\154\123\151\147
\156\040\122\157\157\164\040\103\101\040\055\040\122\066\061\023
\060\021\006\003\125\004\012\023\012\107\154\157\142\141\154\123
\151\147\156\061\023\060\021\006\003\125\004\003\023\012\107\154
\157\142\141\154\123\151\147\156\060\202\002\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000
\060\202\002\012\002\202\002\001\000\225\007\350\163\312\146\371
\354\024\312\173\074\367\015\010\361\264\105\013\054\202\264\110
\306\353\133\074\256\203\270\101\222\063\024\244\157\177\351\052
\314\306\260\210\153\305\266\211\321\306\262\377\024\316\121\024
\041\354\112\335\033\132\306\326\207\356\115\072\025\006\355\144
\146\013\222\200\312\104\336\163\224\116\363\247\211\177\117\170
\143\010\310\022\120\155\102\146\057\115\271\171\050\115\122\032
\212\032\200\267\031\201\016\176\304\212\274\144\114\041\034\103
\150\327\075\074\212\305\262\146\325\220\232\267\061\006\305\276
\342\155\062\006\246\036\371\271\353\252\243\270\277\276\202\143
\120\320\360\030\211\337\344\017\171\365\352\242\037\052\322\160
\056\173\347\274\223\273\155\123\342\110\174\214\020\007\070\377

\146\262\167\141\176\340\352\214\074\252\264\244\366\363\225\112
\022\007\155\375\214\262\211\317\320\240\141\167\310\130\164\260
\324\043\072\367\135\072\312\242\333\235\011\336\135\104\055\220
\361\201\315\127\222\372\176\274\120\004\143\064\337\153\223\030
\276\153\066\262\071\344\254\044\066\267\360\357\266\034\023\127
\223\266\336\262\370\342\205\267\163\242\270\065\252\105\362\340
\235\066\241\157\124\212\361\162\126\156\056\210\305\121\102\104
\025\224\356\243\305\070\226\233\116\116\132\013\107\363\006\066
\111\167\060\274\161\067\345\246\354\041\010\165\374\346\141\026
\077\167\325\331\221\227\204\012\154\324\002\115\164\300\024\355
\375\071\373\203\362\136\024\241\004\260\013\351\376\356\217\341
\156\013\262\010\263\141\146\011\152\261\006\072\145\226\131\300
\360\065\375\311\332\050\215\032\021\207\160\201\012\250\232\165
\035\236\072\206\005\000\236\333\200\326\045\371\334\005\236\047
\131\114\166\071\133\352\371\245\241\330\203\017\321\377\337\060
\021\371\205\317\063\110\365\312\155\144\024\054\172\130\117\323
\113\010\111\305\225\144\032\143\016\171\075\365\263\214\312\130
\255\234\102\105\171\156\016\207\031\134\124\261\145\266\277\214
\233\334\023\351\015\157\270\056\334\147\156\311\213\021\265\204
\024\212\000\031\160\203\171\221\227\221\324\032\047\277\067\036
\062\007\330\024\143\074\050\114\257\002\003\001\000\001\243\143
\060\141\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\006\060\017\006\003\125\035\023\001\001\377\004\005\060\003
\001\001\377\060\035\006\003\125\035\016\004\026\004\024\256\154
\005\243\223\023\342\242\347\342\327\034\326\307\360\177\310\147
\123\240\060\037\006\003\125\035\043\004\030\060\026\200\024\256
\154\005\243\223\023\342\242\347\342\327\034\326\307\360\177\310
\147\123\240\060\015\006\011\052\206\110\206\367\015\001\001\014
\005\000\003\202\002\001\000\203\045\355\350\321\375\225\122\315
\236\300\004\240\221\151\346\134\320\204\336\334\255\242\117\350
\107\170\326\145\230\251\133\250\074\207\174\002\212\321\156\267
\026\163\346\137\300\124\230\325\164\276\301\315\342\021\221\255
\043\030\075\335\341\162\104\226\264\225\136\300\173\216\231\170
\026\103\023\126\127\263\242\263\073\265\167\334\100\162\254\243
\353\233\065\076\261\010\041\241\347\304\103\067\171\062\276\265
\347\234\054\114\274\103\051\231\216\060\323\254\041\340\343\035
\372\330\007\063\166\124\000\042\052\271\115\040\056\160\150\332
\345\123\374\203\134\323\235\362\377\104\014\104\146\362\322\343
\275\106\000\032\155\002\272\045\135\215\241\061\121\335\124\106
\034\115\333\231\226\357\032\034\004\134\246\025\357\170\340\171
\376\135\333\076\252\114\125\375\232\025\251\157\341\246\373\337
\160\060\351\303\356\102\106\355\302\223\005\211\372\175\143\173
\077\320\161\201\174\000\350\230\256\016\170\064\303\045\373\257
\012\237\040\153\335\073\023\217\022\214\342\101\032\110\172\163
\240\167\151\307\266\134\177\202\310\036\376\130\033\050\053\250
\154\255\136\155\300\005\322\173\267\353\200\376\045\067\376\002
\233\150\254\102\135\303\356\365\314\334\360\120\165\322\066\151
\234\346\173\004\337\156\006\151\266\336\012\011\110\131\207\353

\173\024\140\172\144\252\151\103\357\221\307\114\354\030\335\154
\357\123\055\214\231\341\136\362\162\076\317\124\310\275\147\354
\244\017\114\105\377\323\271\060\043\007\114\217\020\277\206\226
\331\231\132\264\231\127\034\244\314\273\025\211\123\272\054\005
\017\344\304\236\031\261\030\064\325\114\235\272\355\367\037\257
\044\225\004\170\250\003\273\356\201\345\332\137\174\213\112\241
\220\164\045\247\263\076\113\310\054\126\275\307\310\357\070\342
\134\222\360\171\367\234\204\272\164\055\141\001\040\176\176\321
\362\117\007\131\137\213\055\103\122\353\106\014\224\341\365\146
\107\171\167\325\124\133\037\255\044\067\313\105\132\116\240\104
\110\310\330\260\231\305\025\204\011\366\326\111\111\300\145\270
\346\032\161\156\240\250\361\202\350\105\076\154\326\002\327\012
\147\203\005\132\311\244\020
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "GlobalSign Root CA - R6"
Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
Serial Number:45:e6:bb:03:83:33:c3:85:65:48:e6:ff:45:51
Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
Not Valid Before: Wed Dec 10 00:00:00 2014
Not Valid After : Sun Dec 10 00:00:00 2034
Fingerprint (SHA-256):
2C:AB:EA:FE:37:D0:6C:A2:2A:BA:73:91:C0:03:3D:25:98:29:52:C4:53:64:73:49:76:3A:3A:B5:AD:6C:CF:69
Fingerprint (SHA1): 80:94:64:0E:B5:A7:A1:CA:11:9C:1F:DD:D5:9F:81:02:63:A7:FB:D1
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R6"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\200\224\144\016\265\247\241\312\021\234\037\335\325\237\201\002
\143\247\373\321
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\117\335\007\344\324\042\144\071\036\014\067\102\352\321\306\256
END
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\066\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\016\105\346\273\003\203\063\303\205\145\110\346\377\105\121

END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "OISTE WISeKey Global Root GC CA"
#
Issuer: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
Serial Number:21:2a:56:0c:ae:da:0c:ab:40:45:bf:2b:a2:2d:3a:ea
Subject: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
Not Valid Before: Tue May 09 09:48:34 2017
Not Valid After : Fri May 09 09:58:33 2042
Fingerprint (SHA-256):
85:60:F9:1C:36:24:DA:BA:95:70:B5:FE:A0:DB:E3:6F:F1:1A:83:23:BE:94:86:85:4F:B3:F3:4A:55:71:19:8D
Fingerprint (SHA1): E0:11:84:5E:34:DE:BE:88:81:B9:9C:F6:16:26:D1:96:1F:C3:B9:31
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GC CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145
\171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\103\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145
\171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\103\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\041\052\126\014\256\332\014\253\100\105\277\053\242\055
\072\352
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\151\060\202\001\357\240\003\002\001\002\002\020\041

\052\126\014\256\332\014\253\100\105\277\053\242\055\072\352\060
\012\006\010\052\206\110\316\075\004\003\003\060\155\061\013\060
\011\006\003\125\004\006\023\002\103\110\061\020\060\016\006\003
\125\004\012\023\007\127\111\123\145\113\145\171\061\042\060\040
\006\003\125\004\013\023\031\117\111\123\124\105\040\106\157\165
\156\144\141\164\151\157\156\040\105\156\144\157\162\163\145\144
\061\050\060\046\006\003\125\004\003\023\037\117\111\123\124\105
\040\127\111\123\145\113\145\171\040\107\154\157\142\141\154\040
\122\157\157\164\040\107\103\040\103\101\060\036\027\015\061\067
\060\065\060\071\060\071\064\070\063\064\132\027\015\064\062\060
\065\060\071\060\071\065\070\063\063\132\060\155\061\013\060\011
\006\003\125\004\006\023\002\103\110\061\020\060\016\006\003\125
\004\012\023\007\127\111\123\145\113\145\171\061\042\060\040\006
\003\125\004\013\023\031\117\111\123\124\105\040\106\157\165\156
\144\141\164\151\157\156\040\105\156\144\157\162\163\145\144\061
\050\060\046\006\003\125\004\003\023\037\117\111\123\124\105\040
\127\111\123\145\113\145\171\040\107\154\157\142\141\154\040\122
\157\157\164\040\107\103\040\103\101\060\166\060\020\006\007\052
\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000
\004\114\351\120\300\306\017\162\030\274\330\361\272\263\211\342
\171\112\243\026\247\153\124\044\333\121\377\352\364\011\044\303
\013\042\237\313\152\047\202\201\015\322\300\257\061\344\164\202
\156\312\045\331\214\165\235\361\333\320\232\242\113\041\176\026
\247\143\220\322\071\324\261\207\170\137\030\226\017\120\033\065
\067\017\152\306\334\331\023\115\244\216\220\067\346\275\133\061
\221\243\124\060\122\060\016\006\003\125\035\017\001\001\377\004
\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004
\024\110\207\024\254\343\303\236\220\140\072\327\312\211\356\323
\255\214\264\120\146\060\020\006\011\053\006\001\004\001\202\067
\025\001\004\003\002\001\000\060\012\006\010\052\206\110\316\075
\004\003\003\003\150\000\060\145\002\060\046\307\151\133\334\325
\347\262\347\310\014\214\214\303\335\171\214\033\143\325\311\122
\224\116\115\202\112\163\036\262\200\204\251\045\300\114\132\155
\111\051\140\170\023\342\176\110\353\144\002\061\000\333\064\040
\062\010\377\232\111\002\266\210\336\024\257\135\154\231\161\215
\032\077\213\327\340\242\066\206\034\007\202\072\166\123\375\302
\242\355\357\173\260\200\117\130\017\113\123\071\275
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "OISTE WISeKey Global Root GC CA"
Issuer: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
Serial Number:21:2a:56:0c:ae:da:0c:ab:40:45:bf:2b:a2:2d:3a:ea
Subject: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
Not Valid Before: Tue May 09 09:48:34 2017

Not Valid After : Fri May 09 09:58:33 2042
Fingerprint (SHA-256):
85:60:F9:1C:36:24:DA:BA:95:70:B5:FE:A0:DB:E3:6F:F1:1A:83:23:BE:94:86:85:4F:B3:F3:4A:55:71:19:8D
Fingerprint (SHA1): E0:11:84:5E:34:DE:BE:88:81:B9:9C:F6:16:26:D1:96:1F:C3:B9:31
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GC CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\340\021\204\136\064\336\276\210\201\271\234\366\026\046\321\226
\037\303\271\061
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\251\326\271\055\057\223\144\370\245\151\312\221\351\150\007\043
END
CKA_ISSUER MULTILINE_OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145
\171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\103\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\041\052\126\014\256\332\014\253\100\105\277\053\242\055
\072\352
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "UCA Global G2 Root"
#
Issuer: CN=UCA Global G2 Root,O=UniTrust,C=CN
Serial Number:5d:df:b1:da:5a:a3:ed:5d:be:5a:65:20:65:03:90:ef
Subject: CN=UCA Global G2 Root,O=UniTrust,C=CN
Not Valid Before: Fri Mar 11 00:00:00 2016
Not Valid After : Mon Dec 31 00:00:00 2040
Fingerprint (SHA-256):
9B:EA:11:C9:76:FE:01:47:64:C1:BE:56:A6:F9:14:B5:A5:60:31:7A:BD:99:88:39:33:82:E5:16:1A:A0:49:3C
Fingerprint (SHA1): 28:F9:78:16:19:7A:FF:18:25:18:AA:44:FE:C1:A0:CE:5C:B6:4C:8A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Global G2 Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\061\033\060\031\006\003\125\004\003\014\022\125\103\101
\040\107\154\157\142\141\154\040\107\062\040\122\157\157\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\061\033\060\031\006\003\125\004\003\014\022\125\103\101
\040\107\154\157\142\141\154\040\107\062\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\135\337\261\332\132\243\355\135\276\132\145\040\145\003
\220\357
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\106\060\202\003\056\240\003\002\001\002\002\020\135
\337\261\332\132\243\355\135\276\132\145\040\145\003\220\357\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\075
\061\013\060\011\006\003\125\004\006\023\002\103\116\061\021\060
\017\006\003\125\004\012\014\010\125\156\151\124\162\165\163\164
\061\033\060\031\006\003\125\004\003\014\022\125\103\101\040\107
\154\157\142\141\154\040\107\062\040\122\157\157\164\060\036\027
\015\061\066\060\063\061\061\060\060\060\060\060\060\132\027\015
\064\060\061\062\063\061\060\060\060\060\060\060\132\060\075\061
\013\060\011\006\003\125\004\006\023\002\103\116\061\021\060\017
\006\003\125\004\012\014\010\125\156\151\124\162\165\163\164\061
\033\060\031\006\003\125\004\003\014\022\125\103\101\040\107\154
\157\142\141\154\040\107\062\040\122\157\157\164\060\202\002\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\002\017\000\060\202\002\012\002\202\002\001\000\305\346\053
\157\174\357\046\005\047\243\201\044\332\157\313\001\371\231\232
\251\062\302\042\207\141\101\221\073\313\303\150\033\006\305\114
\251\053\301\147\027\042\035\053\355\371\051\211\223\242\170\275
\222\153\240\243\015\242\176\312\223\263\246\321\214\065\325\165
\371\027\366\317\105\305\345\172\354\167\223\240\217\043\256\016
\032\003\177\276\324\320\355\056\173\253\106\043\133\377\054\346
\124\172\224\300\052\025\360\311\215\260\172\073\044\341\327\150
\342\061\074\006\063\106\266\124\021\246\245\057\042\124\052\130
\015\001\002\361\372\025\121\147\154\300\372\327\266\033\177\321
\126\210\057\032\072\215\073\273\202\021\340\107\000\320\122\207
\253\373\206\176\017\044\153\100\235\064\147\274\215\307\055\206
\157\171\076\216\251\074\027\113\177\260\231\343\260\161\140\334

\013\365\144\303\316\103\274\155\161\271\322\336\047\133\212\350
\330\306\256\341\131\175\317\050\055\065\270\225\126\032\361\262
\130\113\267\022\067\310\174\263\355\113\200\341\215\372\062\043
\266\157\267\110\225\010\261\104\116\205\214\072\002\124\040\057
\337\277\127\117\073\072\220\041\327\301\046\065\124\040\354\307
\077\107\354\357\132\277\113\172\301\255\073\027\120\134\142\330
\017\113\112\334\053\372\156\274\163\222\315\354\307\120\350\101
\226\327\251\176\155\330\351\035\217\212\265\271\130\222\272\112
\222\053\014\126\375\200\353\010\360\136\051\156\033\034\014\257
\217\223\211\255\333\275\243\236\041\312\211\031\354\337\265\303
\032\353\026\376\170\066\114\326\156\320\076\027\034\220\027\153
\046\272\373\172\057\277\021\034\030\016\055\163\003\217\240\345
\065\240\132\342\114\165\035\161\341\071\070\123\170\100\314\203
\223\327\012\236\235\133\217\212\344\345\340\110\344\110\262\107
\315\116\052\165\052\173\362\042\366\311\276\011\221\226\127\172
\210\210\254\356\160\254\371\334\051\343\014\034\073\022\116\104
\326\247\116\260\046\310\363\331\032\227\221\150\352\357\215\106
\006\322\126\105\130\232\074\014\017\203\270\005\045\303\071\317
\073\244\064\211\267\171\022\057\107\305\347\251\227\151\374\246
\167\147\265\337\173\361\172\145\025\344\141\126\145\002\003\001
\000\001\243\102\060\100\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026
\004\024\201\304\214\314\365\344\060\377\245\014\010\137\214\025
\147\041\164\001\337\337\060\015\006\011\052\206\110\206\367\015
\001\001\013\005\000\003\202\002\001\000\023\145\042\365\216\053
\255\104\344\313\377\271\150\346\303\200\110\075\004\173\372\043
\057\172\355\066\332\262\316\155\366\346\236\345\137\130\217\313
\067\062\241\310\145\266\256\070\075\065\033\076\274\073\266\004
\320\274\371\111\365\233\367\205\305\066\266\313\274\370\310\071
\325\344\137\007\275\025\124\227\164\312\312\355\117\272\272\144
\166\237\201\270\204\105\111\114\215\157\242\353\261\314\321\303
\224\332\104\302\346\342\352\030\350\242\037\047\005\272\327\345
\326\251\315\335\357\166\230\215\000\016\315\033\372\003\267\216
\200\130\016\047\077\122\373\224\242\312\136\145\311\326\204\332
\271\065\161\363\046\300\117\167\346\201\047\322\167\073\232\024
\157\171\364\366\320\341\323\224\272\320\127\121\275\047\005\015
\301\375\310\022\060\356\157\215\021\053\010\235\324\324\277\200
\105\024\232\210\104\332\060\352\264\247\343\356\357\133\202\325
\076\326\255\170\222\333\134\074\363\330\255\372\270\153\177\304
\066\050\266\002\025\212\124\054\234\260\027\163\216\320\067\243
\024\074\230\225\000\014\051\005\133\236\111\111\261\137\307\343
\313\317\047\145\216\065\027\267\127\310\060\331\101\133\271\024
\266\350\302\017\224\061\247\224\230\314\152\353\265\341\047\365
\020\250\001\350\216\022\142\350\210\314\265\177\106\227\300\233
\020\146\070\032\066\106\137\042\150\075\337\311\306\023\047\253
\123\006\254\242\074\206\006\145\157\261\176\261\051\104\232\243
\272\111\151\050\151\217\327\345\137\255\004\206\144\157\032\240

\014\305\010\142\316\200\243\320\363\354\150\336\276\063\307\027
\133\177\200\304\114\114\261\246\204\212\303\073\270\011\315\024
\201\272\030\343\124\127\066\376\333\057\174\107\241\072\063\310
\371\130\073\104\117\261\312\002\211\004\226\050\150\305\113\270
\046\211\273\326\063\057\120\325\376\232\211\272\030\062\222\124
\306\133\340\235\371\136\345\015\042\233\366\332\342\310\041\262
\142\041\252\206\100\262\056\144\323\137\310\343\176\021\147\105
\037\005\376\343\242\357\263\250\263\363\175\217\370\014\037\042
\037\055\160\264\270\001\064\166\060\000\345\043\170\247\126\327
\120\037\212\373\006\365\302\031\360\320
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "UCA Global G2 Root"
Issuer: CN=UCA Global G2 Root,O=UniTrust,C=CN
Serial Number:5d:df:b1:da:5a:a3:ed:5d:be:5a:65:20:65:03:90:ef
Subject: CN=UCA Global G2 Root,O=UniTrust,C=CN
Not Valid Before: Fri Mar 11 00:00:00 2016
Not Valid After : Mon Dec 31 00:00:00 2040
Fingerprint (SHA-256):
9B:EA:11:C9:76:FE:01:47:64:C1:BE:56:A6:F9:14:B5:A5:60:31:7A:BD:99:88:39:33:82:E5:16:1A:A0:49:3C
Fingerprint (SHA1): 28:F9:78:16:19:7A:FF:18:25:18:AA:44:FE:C1:A0:CE:5C:B6:4C:8A
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Global G2 Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\050\371\170\026\031\172\377\030\045\030\252\104\376\301\240\316
\134\266\114\212
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\200\376\360\304\112\360\134\142\062\237\034\272\170\251\120\370
END
CKA_ISSUER MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\061\033\060\031\006\003\125\004\003\014\022\125\103\101
\040\107\154\157\142\141\154\040\107\062\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\135\337\261\332\132\243\355\135\276\132\145\040\145\003
\220\357
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "UCA Extended Validation Root"
#
Issuer: CN=UCA Extended Validation Root,O=UniTrust,C=CN
Serial Number:4f:d2:2b:8f:f5:64:c8:33:9e:4f:34:58:66:23:70:60
Subject: CN=UCA Extended Validation Root,O=UniTrust,C=CN
Not Valid Before: Fri Mar 13 00:00:00 2015
Not Valid After : Fri Dec 31 00:00:00 2038
Fingerprint (SHA-256):
D4:3A:F9:B3:54:73:75:5C:96:84:FC:06:D7:D8:CB:70:EE:5C:28:E7:73:FB:29:4E:B4:1E:E7:17:22:92:4D:24
Fingerprint (SHA1): A3:A1:B0:6F:24:61:23:4A:E3:36:A5:C2:37:FC:A6:FF:DD:F0:D7:3A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Extended Validation Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\061\045\060\043\006\003\125\004\003\014\034\125\103\101
\040\105\170\164\145\156\144\145\144\040\126\141\154\151\144\141
\164\151\157\156\040\122\157\157\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\061\045\060\043\006\003\125\004\003\014\034\125\103\101
\040\105\170\164\145\156\144\145\144\040\126\141\154\151\144\141
\164\151\157\156\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\117\322\053\217\365\144\310\063\236\117\064\130\146\043
\160\140
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\132\060\202\003\102\240\003\002\001\002\002\020\117
\322\053\217\365\144\310\063\236\117\064\130\146\043\160\140\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\107
\061\013\060\011\006\003\125\004\006\023\002\103\116\061\021\060
\017\006\003\125\004\012\014\010\125\156\151\124\162\165\163\164
\061\045\060\043\006\003\125\004\003\014\034\125\103\101\040\105
\170\164\145\156\144\145\144\040\126\141\154\151\144\141\164\151
\157\156\040\122\157\157\164\060\036\027\015\061\065\060\063\061

\063\060\060\060\060\060\060\132\027\015\063\070\061\062\063\061
\060\060\060\060\060\060\132\060\107\061\013\060\011\006\003\125
\004\006\023\002\103\116\061\021\060\017\006\003\125\004\012\014
\010\125\156\151\124\162\165\163\164\061\045\060\043\006\003\125
\004\003\014\034\125\103\101\040\105\170\164\145\156\144\145\144
\040\126\141\154\151\144\141\164\151\157\156\040\122\157\157\164
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001
\000\251\011\007\050\023\002\260\231\340\144\252\036\103\026\172
\163\261\221\240\165\076\250\372\343\070\000\172\354\211\152\040
\017\213\305\260\233\063\003\132\206\306\130\206\325\301\205\273
\117\306\234\100\115\312\276\356\151\226\270\255\201\060\232\174
\222\005\353\005\053\232\110\320\270\166\076\226\310\040\273\322
\260\361\217\330\254\105\106\377\252\147\140\264\167\176\152\037
\074\032\122\172\004\075\007\074\205\015\204\320\037\166\012\367
\152\024\337\162\343\064\174\127\116\126\001\076\171\361\252\051
\073\154\372\370\217\155\115\310\065\337\256\353\334\044\356\171
\105\247\205\266\005\210\336\210\135\045\174\227\144\147\011\331
\277\132\025\005\206\363\011\036\354\130\062\063\021\363\167\144
\260\166\037\344\020\065\027\033\362\016\261\154\244\052\243\163
\374\011\037\036\062\031\123\021\347\331\263\054\056\166\056\241
\243\336\176\152\210\011\350\362\007\212\370\262\315\020\347\342
\163\100\223\273\010\321\077\341\374\013\224\263\045\357\174\246
\327\321\257\237\377\226\232\365\221\173\230\013\167\324\176\350
\007\322\142\265\225\071\343\363\361\155\017\016\145\204\212\143
\124\305\200\266\340\236\113\175\107\046\247\001\010\135\321\210
\236\327\303\062\104\372\202\112\012\150\124\177\070\123\003\314
\244\000\063\144\121\131\013\243\202\221\172\136\354\026\302\363
\052\346\142\332\052\333\131\142\020\045\112\052\201\013\107\007
\103\006\160\207\322\372\223\021\051\172\110\115\353\224\307\160
\115\257\147\325\121\261\200\040\001\001\264\172\010\246\220\177
\116\340\357\007\101\207\257\152\245\136\213\373\317\120\262\232
\124\257\303\211\272\130\055\365\060\230\261\066\162\071\176\111
\004\375\051\247\114\171\344\005\127\333\224\271\026\123\215\106
\263\035\225\141\127\126\177\257\360\026\133\141\130\157\066\120
\021\013\330\254\053\225\026\032\016\037\010\315\066\064\145\020
\142\146\325\200\137\024\040\137\055\014\240\170\012\150\326\054
\327\351\157\053\322\112\005\223\374\236\157\153\147\377\210\361
\116\245\151\112\122\067\005\352\306\026\215\322\304\231\321\202
\053\073\272\065\165\367\121\121\130\363\310\007\335\344\264\003
\177\002\003\001\000\001\243\102\060\100\060\035\006\003\125\035
\016\004\026\004\024\331\164\072\344\060\075\015\367\022\334\176
\132\005\237\036\064\232\367\341\024\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\016\006\003\125\035
\017\001\001\377\004\004\003\002\001\206\060\015\006\011\052\206
\110\206\367\015\001\001\013\005\000\003\202\002\001\000\066\215
\227\314\102\025\144\051\067\233\046\054\326\373\256\025\151\054
\153\032\032\367\137\266\371\007\114\131\352\363\311\310\271\256

\314\272\056\172\334\300\365\260\055\300\073\257\237\160\005\021
\152\237\045\117\001\051\160\343\345\014\341\352\132\174\334\111
\273\301\036\052\201\365\026\113\162\221\310\242\061\271\252\332
\374\235\037\363\135\100\002\023\374\116\034\006\312\263\024\220
\124\027\031\022\032\361\037\327\014\151\132\366\161\170\364\224
\175\221\013\216\354\220\124\216\274\157\241\114\253\374\164\144
\375\161\232\370\101\007\241\315\221\344\074\232\340\233\062\071
\163\253\052\325\151\310\170\221\046\061\175\342\307\060\361\374
\024\170\167\022\016\023\364\335\026\224\277\113\147\173\160\123
\205\312\260\273\363\070\115\054\220\071\300\015\302\135\153\351
\342\345\325\210\215\326\054\277\253\033\276\265\050\207\022\027
\164\156\374\175\374\217\320\207\046\260\033\373\271\154\253\342
\236\075\025\301\073\056\147\002\130\221\237\357\370\102\037\054
\267\150\365\165\255\317\265\366\377\021\175\302\360\044\245\255
\323\372\240\074\251\372\135\334\245\240\357\104\244\276\326\350
\345\344\023\226\027\173\006\076\062\355\307\267\102\274\166\243
\330\145\070\053\070\065\121\041\016\016\157\056\064\023\100\341
\053\147\014\155\112\101\060\030\043\132\062\125\231\311\027\340
\074\336\366\354\171\255\053\130\031\242\255\054\042\032\225\216
\276\226\220\135\102\127\304\371\024\003\065\053\034\055\121\127
\010\247\072\336\077\344\310\264\003\163\302\301\046\200\273\013
\102\037\255\015\257\046\162\332\314\276\263\243\203\130\015\202
\305\037\106\121\343\234\030\314\215\233\215\354\111\353\165\120
\325\214\050\131\312\164\064\332\214\013\041\253\036\352\033\345
\307\375\025\076\300\027\252\373\043\156\046\106\313\372\371\261
\162\153\151\317\042\204\013\142\017\254\331\031\000\224\242\166
\074\324\055\232\355\004\236\055\006\142\020\067\122\034\205\162
\033\047\345\314\306\061\354\067\354\143\131\233\013\035\166\314
\176\062\232\210\225\010\066\122\273\336\166\137\166\111\111\255
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END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "UCA Extended Validation Root"
Issuer: CN=UCA Extended Validation Root,O=UniTrust,C=CN
Serial Number:4f:d2:2b:8f:f5:64:c8:33:9e:4f:34:58:66:23:70:60
Subject: CN=UCA Extended Validation Root,O=UniTrust,C=CN
Not Valid Before: Fri Mar 13 00:00:00 2015
Not Valid After : Fri Dec 31 00:00:00 2038
Fingerprint (SHA-256):
D4:3A:F9:B3:54:73:75:5C:96:84:FC:06:D7:D8:CB:70:EE:5C:28:E7:73:FB:29:4E:B4:1E:E7:17:22:92:4D:24
Fingerprint (SHA1): A3:A1:B0:6F:24:61:23:4A:E3:36:A5:C2:37:FC:A6:FF:DD:F0:D7:3A
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "UCA Extended Validation Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\243\241\260\157\044\141\043\112\343\066\245\302\067\374\246\377
\335\360\327\072
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\241\363\137\103\306\064\233\332\277\214\176\005\123\255\226\342
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\061\045\060\043\006\003\125\004\003\014\034\125\103\101
\040\105\170\164\145\156\144\145\144\040\126\141\154\151\144\141
\164\151\157\156\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\117\322\053\217\365\144\310\063\236\117\064\130\146\043
\160\140
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Certigna Root CA"
#
Issuer: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
Serial Number:00:ca:e9:1b:89:f1:55:03:0d:a3:e6:41:6d:c4:e3:a6:e1
Subject: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
Not Valid Before: Tue Oct 01 08:32:27 2013
Not Valid After : Sat Oct 01 08:32:27 2033
Fingerprint (SHA-256):
D4:8D:3D:23:EE:DB:50:A4:59:E5:51:97:60:1C:27:77:4B:9D:7B:18:C9:4D:5A:05:95:11:A1:02:50:B9:31:68
Fingerprint (SHA1): 2D:0D:52:14:FF:9E:AD:99:24:01:74:20:47:6E:6C:85:27:27:F5:43
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\034\060\032\006\003\125\004\013\014\023\060\060
\060\062\040\064\070\061\064\066\063\060\070\061\060\060\060\063
\066\061\031\060\027\006\003\125\004\003\014\020\103\145\162\164
\151\147\156\141\040\122\157\157\164\040\103\101

END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\034\060\032\006\003\125\004\013\014\023\060\060
\060\062\040\064\070\061\064\066\063\060\070\061\060\060\060\063
\066\061\031\060\027\006\003\125\004\003\014\020\103\145\162\164
\151\147\156\141\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\312\351\033\211\361\125\003\015\243\346\101\155\304
\343\246\341
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\133\060\202\004\103\240\003\002\001\002\002\021\000
\312\351\033\211\361\125\003\015\243\346\101\155\304\343\246\341
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\132\061\013\060\011\006\003\125\004\006\023\002\106\122\061\022
\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157\164
\151\163\061\034\060\032\006\003\125\004\013\014\023\060\060\060
\062\040\064\070\061\064\066\063\060\070\061\060\060\060\063\066
\061\031\060\027\006\003\125\004\003\014\020\103\145\162\164\151
\147\156\141\040\122\157\157\164\040\103\101\060\036\027\015\061
\063\061\060\060\061\060\070\063\062\062\067\132\027\015\063\063
\061\060\060\061\060\070\063\062\062\067\132\060\132\061\013\060
\011\006\003\125\004\006\023\002\106\122\061\022\060\020\006\003
\125\004\012\014\011\104\150\151\155\171\157\164\151\163\061\034
\060\032\006\003\125\004\013\014\023\060\060\060\062\040\064\070
\061\064\066\063\060\070\061\060\060\060\063\066\061\031\060\027
\006\003\125\004\003\014\020\103\145\162\164\151\147\156\141\040
\122\157\157\164\040\103\101\060\202\002\042\060\015\006\011\052
\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060
\202\002\012\002\202\002\001\000\315\030\071\145\032\131\261\352
\144\026\016\214\224\044\225\174\203\323\305\071\046\334\014\357
\026\127\215\327\330\254\243\102\177\202\312\355\315\133\333\016
\267\055\355\105\010\027\262\331\263\313\326\027\122\162\050\333
\216\116\236\212\266\013\371\236\204\232\115\166\336\042\051\134
\322\263\322\006\076\060\071\251\164\243\222\126\034\241\157\114
\012\040\155\237\043\172\264\306\332\054\344\035\054\334\263\050
\320\023\362\114\116\002\111\241\124\100\236\346\345\005\240\055
\204\310\377\230\154\320\353\212\032\204\010\036\267\150\043\356
\043\325\160\316\155\121\151\020\356\241\172\302\321\042\061\302
\202\205\322\362\125\166\120\174\045\172\311\204\134\013\254\335
\102\116\053\347\202\242\044\211\313\220\262\320\356\043\272\146
\114\273\142\244\371\123\132\144\173\174\230\372\243\110\236\017
\225\256\247\030\364\152\354\056\003\105\257\360\164\370\052\315
\172\135\321\276\104\046\062\051\361\361\365\154\314\176\002\041

\013\237\157\244\077\276\235\123\342\317\175\251\054\174\130\032
\227\341\075\067\067\030\146\050\322\100\305\121\212\214\303\055
\316\123\210\044\130\144\060\026\305\252\340\326\012\246\100\337
\170\366\365\004\174\151\023\204\274\321\321\247\006\317\001\367
\150\300\250\127\273\072\141\255\004\214\223\343\255\374\360\333
\104\155\131\334\111\131\256\254\232\231\066\060\101\173\166\063
\042\207\243\302\222\206\156\371\160\356\256\207\207\225\033\304
\172\275\061\363\324\322\345\231\377\276\110\354\165\365\170\026
\035\246\160\301\177\074\033\241\222\373\317\310\074\326\305\223
\012\217\365\125\072\166\225\316\131\230\212\011\225\167\062\232
\203\272\054\004\072\227\275\324\057\276\327\154\233\242\312\175
\155\046\311\125\325\317\303\171\122\010\011\231\007\044\055\144
\045\153\246\041\151\233\152\335\164\115\153\227\172\101\275\253
\027\371\220\027\110\217\066\371\055\325\305\333\356\252\205\105
\101\372\315\072\105\261\150\346\066\114\233\220\127\354\043\271
\207\010\302\304\011\361\227\206\052\050\115\342\164\300\332\304
\214\333\337\342\241\027\131\316\044\131\164\061\332\177\375\060
\155\331\334\341\152\341\374\137\002\003\001\000\001\243\202\001
\032\060\202\001\026\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\035\006\003\125\035\016\004\026\004
\024\030\207\126\340\156\167\356\044\065\074\116\163\232\037\326
\341\342\171\176\053\060\037\006\003\125\035\043\004\030\060\026
\200\024\030\207\126\340\156\167\356\044\065\074\116\163\232\037
\326\341\342\171\176\053\060\104\006\003\125\035\040\004\075\060
\073\060\071\006\004\125\035\040\000\060\061\060\057\006\010\053
\006\001\005\005\007\002\001\026\043\150\164\164\160\163\072\057
\057\167\167\167\167\056\143\145\162\164\151\147\156\141\056\146
\162\057\141\165\164\157\162\151\164\145\163\057\060\155\006\003
\125\035\037\004\146\060\144\060\057\240\055\240\053\206\051\150
\164\164\160\072\057\057\143\162\154\056\143\145\162\164\151\147
\156\141\056\146\162\057\143\145\162\164\151\147\156\141\162\157
\157\164\143\141\056\143\162\154\060\061\240\057\240\055\206\053
\150\164\164\160\072\057\057\143\162\154\056\144\150\151\155\171
\157\164\151\163\056\143\157\155\057\143\145\162\164\151\147\156
\141\162\157\157\164\143\141\056\143\162\154\060\015\006\011\052
\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\224
\270\236\117\360\343\225\010\042\347\315\150\101\367\034\125\325
\174\000\342\055\072\211\135\150\070\057\121\042\013\112\215\313
\351\273\135\076\273\134\075\261\050\376\344\123\125\023\317\241
\220\033\002\035\137\146\106\011\063\050\341\015\044\227\160\323
\020\037\352\144\127\226\273\135\332\347\304\214\117\114\144\106
\035\134\207\343\131\336\102\321\233\250\176\246\211\335\217\034
\311\060\202\355\073\234\315\300\351\031\340\152\330\002\165\067
\253\367\064\050\050\221\362\004\012\117\065\343\140\046\001\372
\320\021\214\371\021\152\356\257\075\303\120\323\217\137\063\171
\074\206\250\163\105\220\214\040\266\162\163\027\043\276\007\145
\345\170\222\015\272\001\300\353\214\034\146\277\254\206\167\001

\224\015\234\346\351\071\215\037\246\121\214\231\014\071\167\341
\264\233\372\034\147\127\157\152\152\216\251\053\114\127\171\172
\127\042\317\315\137\143\106\215\134\131\072\206\370\062\107\142
\243\147\015\030\221\334\373\246\153\365\110\141\163\043\131\216
\002\247\274\104\352\364\111\235\361\124\130\371\140\257\332\030
\244\057\050\105\334\172\240\210\206\135\363\073\347\377\051\065
\200\374\144\103\224\346\343\034\157\276\255\016\052\143\231\053
\311\176\205\366\161\350\006\003\225\376\336\217\110\034\132\324
\222\350\053\356\347\061\333\272\004\152\207\230\347\305\137\357
\175\247\042\367\001\330\115\371\211\320\016\232\005\131\244\236
\230\331\157\053\312\160\276\144\302\125\243\364\351\257\303\222
\051\334\210\026\044\231\074\215\046\230\266\133\267\314\316\267
\067\007\375\046\331\230\205\044\377\131\043\003\232\355\235\235
\250\344\136\070\316\327\122\015\157\322\077\155\261\005\153\111
\316\212\221\106\163\364\366\057\360\250\163\167\016\145\254\241
\215\146\122\151\176\113\150\014\307\036\067\047\203\245\214\307
\002\344\024\315\111\001\260\163\263\375\306\220\072\157\322\154
\355\073\356\354\221\276\242\103\135\213\000\112\146\045\104\160
\336\100\017\370\174\025\367\242\316\074\327\136\023\214\201\027
\030\027\321\275\361\167\020\072\324\145\071\301\047\254\127\054
\045\124\377\242\332\117\212\141\071\136\256\075\112\214\275
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Certigna Root CA"
Issuer: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
Serial Number:00:ca:e9:1b:89:f1:55:03:0d:a3:e6:41:6d:c4:e3:a6:e1
Subject: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
Not Valid Before: Tue Oct 01 08:32:27 2013
Not Valid After : Sat Oct 01 08:32:27 2033
Fingerprint (SHA-256):
D4:8D:3D:23:EE:DB:50:A4:59:E5:51:97:60:1C:27:77:4B:9D:7B:18:C9:4D:5A:05:95:11:A1:02:50:B9:31:68
Fingerprint (SHA1): 2D:0D:52:14:FF:9E:AD:99:24:01:74:20:47:6E:6C:85:27:27:F5:43
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\055\015\122\024\377\236\255\231\044\001\164\040\107\156\154\205
\047\047\365\103
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\016\134\060\142\047\353\133\274\327\256\142\272\351\325\337\167
END
CKA_ISSUER MULTILINE_OCTAL

\060\132\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\034\060\032\006\003\125\004\013\014\023\060\060
\060\062\040\064\070\061\064\066\063\060\070\061\060\060\060\063
\066\061\031\060\027\006\003\125\004\003\014\020\103\145\162\164
\151\147\156\141\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\312\351\033\211\361\125\003\015\243\346\101\155\304
\343\246\341
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "emSign Root CA - G1"
#
Issuer: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
Serial Number:31:f5:e4:62:0c:6c:58:ed:d6:d8
Subject: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
Not Valid Before: Sun Feb 18 18:30:00 2018
Not Valid After : Wed Feb 18 18:30:00 2043
Fingerprint (SHA-256):
40:F6:AF:03:46:A9:9A:A1:CD:1D:55:5A:4E:9C:CE:62:C7:F9:63:46:03:EE:40:66:15:83:3D:C8:C8:D0:03:67
Fingerprint (SHA1): 8A:C7:AD:8F:73:AC:4E:C1:B5:75:4D:A5:40:F4:FC:CF:7C:B5:8E:8C
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - G1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\147\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032\006
\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157
\164\040\103\101\040\055\040\107\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\147\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147

\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032\006
\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157
\164\040\103\101\040\055\040\107\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\061\365\344\142\014\154\130\355\326\330
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\224\060\202\002\174\240\003\002\001\002\002\012\061
\365\344\142\014\154\130\355\326\330\060\015\006\011\052\206\110
\206\367\015\001\001\013\005\000\060\147\061\013\060\011\006\003
\125\004\006\023\002\111\116\061\023\060\021\006\003\125\004\013
\023\012\145\155\123\151\147\156\040\120\113\111\061\045\060\043
\006\003\125\004\012\023\034\145\115\165\144\150\162\141\040\124
\145\143\150\156\157\154\157\147\151\145\163\040\114\151\155\151
\164\145\144\061\034\060\032\006\003\125\004\003\023\023\145\155
\123\151\147\156\040\122\157\157\164\040\103\101\040\055\040\107
\061\060\036\027\015\061\070\060\062\061\070\061\070\063\060\060
\060\132\027\015\064\063\060\062\061\070\061\070\063\060\060\060
\132\060\147\061\013\060\011\006\003\125\004\006\023\002\111\116
\061\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147
\156\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034
\145\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157
\147\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032
\006\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157
\157\164\040\103\101\040\055\040\107\061\060\202\001\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001
\017\000\060\202\001\012\002\202\001\001\000\223\113\273\351\146
\212\356\235\133\325\064\223\320\033\036\303\347\236\270\144\063
\177\143\170\150\264\315\056\161\165\327\233\040\306\115\051\274
\266\150\140\212\367\041\232\126\065\132\363\166\275\330\315\232
\377\223\126\113\245\131\006\241\223\064\051\335\026\064\165\116
\362\201\264\307\226\116\255\031\025\122\112\376\074\160\165\160
\315\257\053\253\025\232\063\074\252\263\213\252\315\103\375\365
\352\160\377\355\317\021\073\224\316\116\062\026\323\043\100\052
\167\263\257\074\001\054\154\355\231\054\213\331\116\151\230\262
\367\217\101\260\062\170\141\326\015\137\303\372\242\100\222\035
\134\027\346\160\076\065\347\242\267\302\142\342\253\244\070\114
\265\071\065\157\352\003\151\372\072\124\150\205\155\326\362\057
\103\125\036\221\015\016\330\325\152\244\226\321\023\074\054\170
\120\350\072\222\322\027\126\345\065\032\100\034\076\215\054\355
\071\337\102\340\203\101\164\337\243\315\302\206\140\110\150\343
\151\013\124\000\213\344\166\151\041\015\171\116\064\010\136\024
\302\314\261\267\255\327\174\160\212\307\205\002\003\001\000\001
\243\102\060\100\060\035\006\003\125\035\016\004\026\004\024\373
\357\015\206\236\260\343\335\251\271\361\041\027\177\076\374\360
\167\053\032\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\006\060\017\006\003\125\035\023\001\001\377\004\005\060

\003\001\001\377\060\015\006\011\052\206\110\206\367\015\001\001
\013\005\000\003\202\001\001\000\131\377\362\214\365\207\175\161
\075\243\237\033\133\321\332\370\323\234\153\066\275\233\251\141
\353\336\026\054\164\075\236\346\165\332\327\272\247\274\102\027
\347\075\221\353\345\175\335\076\234\361\317\222\254\154\110\314
\302\042\077\151\073\305\266\025\057\243\065\306\150\052\034\127
\257\071\357\215\320\065\303\030\014\173\000\126\034\315\213\031
\164\336\276\017\022\340\320\252\241\077\002\064\261\160\316\235
\030\326\010\003\011\106\356\140\340\176\266\304\111\004\121\175
\160\140\274\252\262\377\171\162\172\246\035\075\137\052\370\312
\342\375\071\267\107\271\353\176\337\004\043\257\372\234\006\007
\351\373\143\223\200\100\265\306\154\012\061\050\316\014\237\317
\263\043\065\200\101\215\154\304\067\173\201\057\200\241\100\102
\205\351\331\070\215\350\241\123\315\001\277\151\350\132\006\362
\105\013\220\372\256\341\277\235\362\256\127\074\245\256\262\126
\364\213\145\100\351\375\061\201\054\364\071\011\330\356\153\247
\264\246\035\025\245\230\367\001\201\330\205\175\363\121\134\161
\210\336\272\314\037\200\176\112
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "emSign Root CA - G1"
Issuer: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
Serial Number:31:f5:e4:62:0c:6c:58:ed:d6:d8
Subject: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
Not Valid Before: Sun Feb 18 18:30:00 2018
Not Valid After : Wed Feb 18 18:30:00 2043
Fingerprint (SHA-256):
40:F6:AF:03:46:A9:9A:A1:CD:1D:55:5A:4E:9C:CE:62:C7:F9:63:46:03:EE:40:66:15:83:3D:C8:C8:D0:03:67
Fingerprint (SHA1): 8A:C7:AD:8F:73:AC:4E:C1:B5:75:4D:A5:40:F4:FC:CF:7C:B5:8E:8C
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - G1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\212\307\255\217\163\254\116\301\265\165\115\245\100\364\374\317
\174\265\216\214
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\234\102\204\127\335\313\013\247\056\225\255\266\363\332\274\254
END
CKA_ISSUER MULTILINE_OCTAL
\060\147\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145

\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032\006
\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157
\164\040\103\101\040\055\040\107\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\061\365\344\142\014\154\130\355\326\330
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "emSign ECC Root CA - G3"
#
Issuer: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
Serial Number:3c:f6:07:a9:68:70:0e:da:8b:84
Subject: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
Not Valid Before: Sun Feb 18 18:30:00 2018
Not Valid After : Wed Feb 18 18:30:00 2043
Fingerprint (SHA-256):
86:A1:EC:BA:08:9C:4A:8D:3B:BE:27:34:C6:12:BA:34:1D:81:3E:04:3C:F9:E8:A8:62:CD:5C:57:A3:6B:BE:6B
Fingerprint (SHA1): 30:43:FA:4F:F2:57:DC:A0:C3:80:EE:2E:58:EA:78:B2:3F:E6:BB:C1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\153\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\040\060\036\006
\003\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103
\040\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\153\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\040\060\036\006
\003\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103
\040\122\157\157\164\040\103\101\040\055\040\107\063

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\074\366\007\251\150\160\016\332\213\204
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\116\060\202\001\323\240\003\002\001\002\002\012\074
\366\007\251\150\160\016\332\213\204\060\012\006\010\052\206\110
\316\075\004\003\003\060\153\061\013\060\011\006\003\125\004\006
\023\002\111\116\061\023\060\021\006\003\125\004\013\023\012\145
\155\123\151\147\156\040\120\113\111\061\045\060\043\006\003\125
\004\012\023\034\145\115\165\144\150\162\141\040\124\145\143\150
\156\157\154\157\147\151\145\163\040\114\151\155\151\164\145\144
\061\040\060\036\006\003\125\004\003\023\027\145\155\123\151\147
\156\040\105\103\103\040\122\157\157\164\040\103\101\040\055\040
\107\063\060\036\027\015\061\070\060\062\061\070\061\070\063\060
\060\060\132\027\015\064\063\060\062\061\070\061\070\063\060\060
\060\132\060\153\061\013\060\011\006\003\125\004\006\023\002\111
\116\061\023\060\021\006\003\125\004\013\023\012\145\155\123\151
\147\156\040\120\113\111\061\045\060\043\006\003\125\004\012\023
\034\145\115\165\144\150\162\141\040\124\145\143\150\156\157\154
\157\147\151\145\163\040\114\151\155\151\164\145\144\061\040\060
\036\006\003\125\004\003\023\027\145\155\123\151\147\156\040\105
\103\103\040\122\157\157\164\040\103\101\040\055\040\107\063\060
\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201
\004\000\042\003\142\000\004\043\245\014\270\055\022\365\050\363
\261\262\335\342\002\022\200\236\071\137\111\115\237\311\045\064
\131\164\354\273\006\034\347\300\162\257\350\256\057\341\101\124
\207\024\250\112\262\350\174\202\346\133\152\265\334\263\165\316
\213\006\320\206\043\277\106\325\216\017\077\004\364\327\034\222
\176\366\245\143\302\365\137\216\056\117\241\030\031\002\053\062
\012\202\144\175\026\223\321\243\102\060\100\060\035\006\003\125
\035\016\004\026\004\024\174\135\002\204\023\324\314\212\233\201
\316\027\034\056\051\036\234\110\143\102\060\016\006\003\125\035
\017\001\001\377\004\004\003\002\001\006\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\012\006\010\052
\206\110\316\075\004\003\003\003\151\000\060\146\002\061\000\276
\363\141\317\002\020\035\144\225\007\270\030\156\210\205\005\057
\203\010\027\220\312\037\212\114\350\015\033\172\261\255\325\201
\011\107\357\073\254\010\004\174\134\231\261\355\107\007\322\002
\061\000\235\272\125\374\251\112\350\355\355\346\166\001\102\173
\310\370\140\331\215\121\213\125\073\373\214\173\353\145\011\303
\370\226\315\107\250\202\362\026\125\167\044\176\022\020\225\004
\054\243
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Trust for "emSign ECC Root CA - G3"
# Issuer: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Serial Number:3c:f6:07:a9:68:70:0e:da:8b:84
# Subject: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
86:A1:EC:BA:08:9C:4A:8D:3B:BE:27:34:C6:12:BA:34:1D:81:3E:04:3C:F9:E8:A8:62:CD:5C:57:A3:6B:BE:6B
# Fingerprint (SHA1): 30:43:FA:4F:F2:57:DC:A0:C3:80:EE:2E:58:EA:78:B2:3F:E6:BB:C1
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\060\103\372\117\362\127\334\240\303\200\356\056\130\352\170\262
\077\346\273\301
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\316\013\162\321\237\210\216\320\120\003\350\343\270\213\147\100
END
CKA_ISSUER MULTILINE_OCTAL
\060\153\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\040\060\036\006
\003\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103
\040\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\074\366\007\251\150\160\016\332\213\204
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "emSign Root CA - C1"
#
# Issuer: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Serial Number:00:ae:cf:00:ba:c4:cf:32:f8:43:b2
# Subject: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
12:56:09:AA:30:1D:A0:A2:49:B9:7A:82:39:CB:6A:34:21:6F:44:DC:AC:9F:39:54:B1:42:92:F2:E8:C8:60:8F
```

Fingerprint (SHA1): E7:2E:F1:DF:FC:B2:09:28:CF:5D:D4:D5:67:37:B1:51:CB:86:4F:01
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - C1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\126\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\034\060\032\006\003
\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157\164
\040\103\101\040\055\040\103\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\126\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\034\060\032\006\003
\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157\164
\040\103\101\040\055\040\103\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\000\256\317\000\272\304\317\062\370\103\262
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\163\060\202\002\133\240\003\002\001\002\002\013\000
\256\317\000\272\304\317\062\370\103\262\060\015\006\011\052\206
\110\206\367\015\001\001\013\005\000\060\126\061\013\060\011\006
\003\125\004\006\023\002\125\123\061\023\060\021\006\003\125\004
\013\023\012\145\155\123\151\147\156\040\120\113\111\061\024\060
\022\006\003\125\004\012\023\013\145\115\165\144\150\162\141\040
\111\156\143\061\034\060\032\006\003\125\004\003\023\023\145\155
\123\151\147\156\040\122\157\157\164\040\103\101\040\055\040\103
\061\060\036\027\015\061\070\060\062\061\070\061\070\063\060\060
\060\132\027\015\064\063\060\062\061\070\061\070\063\060\060\060
\132\060\126\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147
\156\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013
\145\115\165\144\150\162\141\040\111\156\143\061\034\060\032\006
\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157
\164\040\103\101\040\055\040\103\061\060\202\001\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017
\000\060\202\001\012\002\202\001\001\000\317\353\251\271\361\231
\005\314\330\050\041\112\363\163\064\121\204\126\020\365\240\117
\054\022\343\372\023\232\047\320\317\371\171\032\164\137\035\171

\071\374\133\370\160\216\340\222\122\367\344\045\371\124\203\331
\035\323\310\132\205\077\136\307\266\007\356\076\300\316\232\257
\254\126\102\052\071\045\160\326\277\265\173\066\255\254\366\163
\334\315\327\035\212\203\245\373\053\220\025\067\153\034\046\107
\334\073\051\126\223\152\263\301\152\072\235\075\365\301\227\070
\130\005\213\034\021\343\344\264\270\135\205\035\203\376\170\137
\013\105\150\030\110\245\106\163\064\073\376\017\310\166\273\307
\030\363\005\321\206\363\205\355\347\271\331\062\255\125\210\316
\246\266\221\260\117\254\176\025\043\226\366\077\360\040\064\026
\336\012\306\304\004\105\171\177\247\375\276\322\251\245\257\234
\305\043\052\367\074\041\154\275\257\217\116\305\072\262\363\064
\022\374\337\200\032\111\244\324\251\225\367\236\211\136\242\211
\254\224\313\250\150\233\257\212\145\047\315\211\356\335\214\265
\153\051\160\103\240\151\013\344\271\017\002\003\001\000\001\243
\102\060\100\060\035\006\003\125\035\016\004\026\004\024\376\241
\340\160\036\052\003\071\122\132\102\276\134\221\205\172\030\252
\115\265\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\006\060\017\006\003\125\035\023\001\001\377\004\005\060\003
\001\001\377\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\003\202\001\001\000\302\112\126\372\025\041\173\050\242
\351\345\035\373\370\055\304\071\226\101\114\073\047\054\304\154
\030\025\200\306\254\257\107\131\057\046\013\343\066\260\357\073
\376\103\227\111\062\231\022\025\133\337\021\051\377\253\123\370
\273\301\170\017\254\234\123\257\127\275\150\214\075\151\063\360
\243\240\043\143\073\144\147\042\104\255\325\161\313\126\052\170
\222\243\117\022\061\066\066\342\336\376\000\304\243\140\017\047
\255\240\260\212\265\066\172\122\241\275\047\364\040\047\142\350
\115\224\044\023\344\012\004\351\074\253\056\310\103\011\112\306
\141\004\345\111\064\176\323\304\310\365\017\300\252\351\272\124
\136\363\143\053\117\117\120\324\376\271\173\231\214\075\300\056
\274\002\053\323\304\100\344\212\007\061\036\233\316\046\231\023
\373\021\352\232\042\014\021\031\307\136\033\201\120\060\310\226
\022\156\347\313\101\177\221\073\242\107\267\124\200\033\334\000
\314\232\220\352\303\303\120\006\142\014\060\300\025\110\247\250
\131\174\341\256\042\242\342\012\172\017\372\142\253\122\114\341
\361\337\312\276\203\015\102
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "emSign Root CA - C1"
Issuer: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
Serial Number:00:ae:cf:00:ba:c4:cf:32:f8:43:b2
Subject: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
Not Valid Before: Sun Feb 18 18:30:00 2018
Not Valid After : Wed Feb 18 18:30:00 2043
Fingerprint (SHA-256):

12:56:09:AA:30:1D:A0:A2:49:B9:7A:82:39:CB:6A:34:21:6F:44:DC:AC:9F:39:54:B1:42:92:F2:E8:C8:60:8F
Fingerprint (SHA1): E7:2E:F1:DF:FC:B2:09:28:CF:5D:D4:D5:67:37:B1:51:CB:86:4F:01
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - C1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\347\056\361\337\374\262\011\050\317\135\324\325\147\067\261\121
\313\206\117\001
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\330\343\135\001\041\372\170\132\260\337\272\322\356\052\137\150
END
CKA_ISSUER MULTILINE_OCTAL
\060\126\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\034\060\032\006\003
\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157\164
\040\103\101\040\055\040\103\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\000\256\317\000\272\304\317\062\370\103\262
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "emSign ECC Root CA - C3"
#
Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
Serial Number:7b:71:b6:82:56:b8:12:7c:9c:a8
Subject: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
Not Valid Before: Sun Feb 18 18:30:00 2018
Not Valid After : Wed Feb 18 18:30:00 2043
Fingerprint (SHA-256):
BC:4D:80:9B:15:18:9D:78:DB:3E:1D:8C:F4:F9:72:6A:79:5D:A1:64:3C:A5:F1:35:8E:1D:DB:0E:DC:0D:7E:B3
Fingerprint (SHA1): B6:AF:43:C2:9B:81:53:7D:F6:EF:6B:C3:1F:1F:60:15:0C:EE:48:66
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - C3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

\060\132\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\040\060\036\006\003
\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103\040
\122\157\157\164\040\103\101\040\055\040\103\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\040\060\036\006\003
\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103\040
\122\157\157\164\040\103\101\040\055\040\103\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\173\161\266\202\126\270\022\174\234\250
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\053\060\202\001\261\240\003\002\001\002\002\012\173
\161\266\202\126\270\022\174\234\250\060\012\006\010\052\206\110
\316\075\004\003\003\060\132\061\013\060\011\006\003\125\004\006
\023\002\125\123\061\023\060\021\006\003\125\004\013\023\012\145
\155\123\151\147\156\040\120\113\111\061\024\060\022\006\003\125
\004\012\023\013\145\115\165\144\150\162\141\040\111\156\143\061
\040\060\036\006\003\125\004\003\023\027\145\155\123\151\147\156
\040\105\103\103\040\122\157\157\164\040\103\101\040\055\040\103
\063\060\036\027\015\061\070\060\062\061\070\061\070\063\060\060
\060\132\027\015\064\063\060\062\061\070\061\070\063\060\060\060
\132\060\132\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147
\156\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013
\145\115\165\144\150\162\141\040\111\156\143\061\040\060\036\006
\003\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103
\040\122\157\157\164\040\103\101\040\055\040\103\063\060\166\060
\020\006\007\052\206\110\316\075\002\001\006\005\053\201\004\000
\042\003\142\000\004\375\245\141\256\173\046\020\035\351\267\042
\060\256\006\364\201\263\261\102\161\225\071\274\323\122\343\257
\257\371\362\227\065\222\066\106\016\207\225\215\271\071\132\351
\273\337\320\376\310\007\101\074\273\125\157\203\243\152\373\142
\260\201\211\002\160\175\110\305\112\343\351\042\124\042\115\223
\273\102\014\257\167\234\043\246\175\327\141\021\316\145\307\370
\177\376\365\362\251\243\102\060\100\060\035\006\003\125\035\016
\004\026\004\024\373\132\110\320\200\040\100\362\250\351\000\007
\151\031\167\247\346\303\364\317\060\016\006\003\125\035\017\001
\001\377\004\004\003\002\001\006\060\017\006\003\125\035\023\001
\001\377\004\005\060\003\001\001\377\060\012\006\010\052\206\110

\316\075\004\003\003\003\150\000\060\145\002\061\000\264\330\057
\002\211\375\266\114\142\272\103\116\023\204\162\265\256\335\034
\336\326\265\334\126\217\130\100\132\055\336\040\114\042\203\312
\223\250\176\356\022\100\307\326\207\117\370\337\205\002\060\034
\024\144\344\174\226\203\021\234\260\321\132\141\113\246\017\111
\323\000\374\241\374\344\245\377\177\255\327\060\320\307\167\177
\276\201\007\125\060\120\040\024\365\127\070\012\250\061\121
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "emSign ECC Root CA - C3"
Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
Serial Number:7b:71:b6:82:56:b8:12:7c:9c:a8
Subject: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
Not Valid Before: Sun Feb 18 18:30:00 2018
Not Valid After : Wed Feb 18 18:30:00 2043
Fingerprint (SHA-256):
BC:4D:80:9B:15:18:9D:78:DB:3E:1D:8C:F4:F9:72:6A:79:5D:A1:64:3C:A5:F1:35:8E:1D:DB:0E:DC:0D:7E:B3
Fingerprint (SHA1): B6:AF:43:C2:9B:81:53:7D:F6:EF:6B:C3:1F:1F:60:15:0C:EE:48:66
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - C3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\266\257\103\302\233\201\123\175\366\357\153\303\037\037\140\025
\014\356\110\146
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\076\123\263\243\201\356\327\020\370\323\260\035\027\222\365\325
END
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\040\060\036\006\003
\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103\040
\122\157\157\164\040\103\101\040\055\040\103\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\173\161\266\202\126\270\022\174\234\250
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

```
#
# Certificate "Hongkong Post Root CA 3"
#
# Issuer: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Serial Number:08:16:5f:8a:4c:a5:ec:00:c9:93:40:df:c4:c6:ae:23:b8:1c:5a:a4
# Subject: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Not Valid Before: Sat Jun 03 02:29:46 2017
# Not Valid After : Tue Jun 03 02:29:46 2042
# Fingerprint (SHA-256):
5A:2F:C0:3F:0C:83:B0:90:BB:FA:40:60:4B:09:88:44:6C:76:36:18:3D:F9:84:6E:17:10:1A:44:7F:B8:EF:D6
# Fingerprint (SHA1): 58:A2:D0:EC:20:52:81:5B:C1:F3:F8:64:02:24:4E:C2:8E:02:4B:02
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\110\113\061
\022\060\020\006\003\125\004\010\023\011\110\157\156\147\040\113
\157\156\147\061\022\060\020\006\003\125\004\007\023\011\110\157
\156\147\040\113\157\156\147\061\026\060\024\006\003\125\004\012
\023\015\110\157\156\147\153\157\156\147\040\120\157\163\164\061
\040\060\036\006\003\125\004\003\023\027\110\157\156\147\153\157
\156\147\040\120\157\163\164\040\122\157\157\164\040\103\101\040
\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\110\113\061
\022\060\020\006\003\125\004\010\023\011\110\157\156\147\040\113
\157\156\147\061\022\060\020\006\003\125\004\007\023\011\110\157
\156\147\040\113\157\156\147\061\026\060\024\006\003\125\004\012
\023\015\110\157\156\147\153\157\156\147\040\120\157\163\164\061
\040\060\036\006\003\125\004\003\023\027\110\157\156\147\153\157
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\064\066\132\060\157\061\013\060\011\006\003\125\004\006\023\002
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\110\060\133\255\247\127\163\231\251\323\345\267\321\056\131\044
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\033\116\043\140\362\314\016\252\177\244\234\114\045\250\262\146
\073\070\377\331\224\060\366\162\204\276\150\125\020\017\306\163
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\112\002\045\047\205\327\267\267\206\104\026\211\154\200\053\076
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\023\077\042\273\110\022\035\122\000\264\002\176\041\032\036\234
\045\364\363\075\136\036\322\034\371\263\055\266\367\067\134\306
\313\041\116\260\367\231\107\030\205\301\053\272\125\256\006\352
\320\007\262\334\253\320\202\226\165\316\322\120\376\231\347\317
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END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Hongkong Post Root CA 3"

```
# Issuer: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Serial Number:08:16:5f:8a:4c:a5:ec:00:c9:93:40:df:c4:c6:ae:23:b8:1c:5a:a4
# Subject: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Not Valid Before: Sat Jun 03 02:29:46 2017
# Not Valid After : Tue Jun 03 02:29:46 2042
# Fingerprint (SHA-256):
5A:2F:C0:3F:0C:83:B0:90:BB:FA:40:60:4B:09:88:44:6C:76:36:18:3D:F9:84:6E:17:10:1A:44:7F:B8:EF:D6
# Fingerprint (SHA1): 58:A2:D0:EC:20:52:81:5B:C1:F3:F8:64:02:24:4E:C2:8E:02:4B:02
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\130\242\320\354\040\122\201\133\301\363\370\144\002\044\116\302
\216\002\113\002
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
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END
CKA_ISSUER MULTILINE_OCTAL
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\157\156\147\061\022\060\020\006\003\125\004\007\023\011\110\157
\156\147\040\113\157\156\147\061\026\060\024\006\003\125\004\012
\023\015\110\157\156\147\153\157\156\147\040\120\157\163\164\061
\040\060\036\006\003\125\004\003\023\027\110\157\156\147\153\157
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\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
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\256\043\270\034\132\244
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Entrust Root Certification Authority - G4"
#
# Issuer: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use
only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number:00:d9:b5:43:7f:af:a9:39:0f:00:00:00:00:55:65:ad:58
# Subject: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use
only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Wed May 27 11:11:16 2015
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Not Valid After : Sun Dec 27 11:41:16 2037
Fingerprint (SHA-256):
DB:35:17:D1:F6:73:2A:2D:5A:B9:7C:53:3E:C7:07:79:EE:32:70:A6:2F:B4:AC:42:38:37:24:60:E6:F0:1E:88
Fingerprint (SHA1): 14:88:4E:86:26:37:B0:26:AF:59:62:5C:40:77:EC:35:29:BA:96:01
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
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\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
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\040\062\060\061\065\040\105\156\164\162\165\163\164\054\040\111
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\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
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\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\061\065\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
\060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
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END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
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\145\255\130
END
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\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165\163
\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162\155
\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051\040
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\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060\060
\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040\122
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\161\154\350\124\114\344\350\072\261\277\147\060\015\006\011\052
\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\022
\345\102\246\173\213\017\014\344\106\245\266\140\100\207\214\045
\176\255\270\150\056\133\306\100\166\074\003\370\311\131\364\363
\253\142\316\020\215\264\132\144\214\150\300\260\162\103\064\322
\033\013\366\054\123\322\312\220\113\206\146\374\252\203\042\364
\213\032\157\046\110\254\166\167\010\277\305\230\134\364\046\211
\236\173\303\271\144\062\001\177\323\303\335\130\155\354\261\253
\204\125\164\167\204\004\047\122\153\206\114\316\335\271\145\377
\326\306\136\237\232\020\231\113\165\152\376\152\351\227\040\344
\344\166\172\306\320\044\252\220\315\040\220\272\107\144\373\177
\007\263\123\170\265\012\142\362\163\103\316\101\053\201\152\056
\205\026\224\123\324\153\137\162\042\253\121\055\102\325\000\234
\231\277\336\273\224\073\127\375\232\365\206\313\126\073\133\210
\001\345\174\050\113\003\371\111\203\174\262\177\174\343\355\216
\241\177\140\123\216\125\235\120\064\022\017\267\227\173\154\207
\112\104\347\365\155\354\200\067\360\130\031\156\112\150\166\360
\037\222\344\352\265\222\323\141\121\020\013\255\247\331\137\307
\137\334\037\243\134\214\241\176\233\267\236\323\126\157\146\136
\007\226\040\355\013\164\373\146\116\213\021\025\351\201\111\176
\157\260\324\120\177\042\327\137\145\002\015\246\364\205\036\330
\256\006\113\112\247\322\061\146\302\370\316\345\010\246\244\002
\226\104\150\127\304\325\063\317\031\057\024\304\224\034\173\244
\331\360\237\016\261\200\342\321\236\021\144\251\210\021\072\166
\202\345\142\302\200\330\244\203\355\223\357\174\057\220\260\062
\114\226\025\150\110\122\324\231\010\300\044\350\034\343\263\245
\041\016\222\300\220\037\317\040\137\312\073\070\307\267\155\072
\363\346\104\270\016\061\153\210\216\160\353\234\027\122\250\101
\224\056\207\266\347\246\022\305\165\337\133\300\012\156\173\244
\344\136\206\371\066\224\337\167\303\351\015\300\071\361\171\273
\106\216\253\103\131\047\267\040\273\043\351\126\100\041\354\061

\075\145\252\103\362\075\337\160\104\341\272\115\046\020\073\230
\237\363\310\216\033\070\126\041\152\121\223\323\221\312\106\332
\211\267\075\123\203\054\010\037\213\217\123\335\377\254\037
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

Trust for "Entrust Root Certification Authority - G4"
Issuer: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
Serial Number:00:d9:b5:43:7f:af:a9:39:0f:00:00:00:00:55:65:ad:58
Subject: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
Not Valid Before: Wed May 27 11:11:16 2015
Not Valid After : Sun Dec 27 11:41:16 2037
Fingerprint (SHA-256):
DB:35:17:D1:F6:73:2A:2D:5A:B9:7C:53:3E:C7:07:79:EE:32:70:A6:2F:B4:AC:42:38:37:24:60:E6:F0:1E:88
Fingerprint (SHA1): 14:88:4E:86:26:37:B0:26:AF:59:62:5C:40:77:EC:35:29:BA:96:01
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\024\210\116\206\046\067\260\046\257\131\142\134\100\167\354\065
\051\272\226\001
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\211\123\361\203\043\267\174\216\005\361\214\161\070\116\037\210
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\061\065\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
\060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\331\265\103\177\257\251\071\017\000\000\000\000\125
\145\255\130
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Microsoft ECC Root Certificate Authority 2017"
#
Issuer: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
Serial Number:66:f2:3d:af:87:de:8b:b1:4a:ea:0c:57:31:01:c2:ec
Subject: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
Not Valid Before: Wed Dec 18 23:06:45 2019
Not Valid After : Fri Jul 18 23:16:04 2042
Fingerprint (SHA-256):
35:8D:F3:9D:76:4A:F9:E1:B7:66:E9:C9:72:DF:35:2E:E1:5C:FA:C2:27:AF:6A:D1:D7:0E:8E:4A:6E:DC:BA:02
Fingerprint (SHA1): 99:9A:64:C3:7F:F4:7D:9F:AB:95:F1:47:69:89:14:60:EE:C4:C3:C5
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft ECC Root Certificate Authority 2017"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\105\103\103\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\105\103\103\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\146\362\075\257\207\336\213\261\112\352\014\127\061\001
\302\354
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\131\060\202\001\337\240\003\002\001\002\002\020\146
\362\075\257\207\336\213\261\112\352\014\127\061\001\302\354\060

\012\006\010\052\206\110\316\075\004\003\003\060\145\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\036\060\034\006\003
\125\004\012\023\025\115\151\143\162\157\163\157\146\164\040\103
\157\162\160\157\162\141\164\151\157\156\061\066\060\064\006\003
\125\004\003\023\055\115\151\143\162\157\163\157\146\164\040\105
\103\103\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\062\060
\061\067\060\036\027\015\061\071\061\062\061\070\062\063\060\066
\064\065\132\027\015\064\062\060\067\061\070\062\063\061\066\060
\064\132\060\145\061\013\060\011\006\003\125\004\006\023\002\125
\123\061\036\060\034\006\003\125\004\012\023\025\115\151\143\162
\157\163\157\146\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\066\060\064\006\003\125\004\003\023\055\115\151\143\162
\157\163\157\146\164\040\105\103\103\040\122\157\157\164\040\103
\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157
\162\151\164\171\040\062\060\061\067\060\166\060\020\006\007\052
\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000
\004\324\274\075\002\102\165\101\023\043\315\200\004\206\002\121
\057\152\250\201\142\013\145\314\366\312\235\036\157\112\146\121
\242\003\331\235\221\372\266\026\261\214\156\336\174\315\333\171
\246\057\316\273\316\161\057\345\245\253\050\354\143\004\146\231
\370\372\362\223\020\005\341\201\050\102\343\306\150\364\346\033
\204\140\112\211\257\355\171\017\073\316\361\366\104\365\001\170
\300\243\124\060\122\060\016\006\003\125\035\017\001\001\377\004
\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004
\024\310\313\231\162\160\122\014\370\346\276\262\004\127\051\052
\317\102\020\355\065\060\020\006\011\053\006\001\004\001\202\067
\025\001\004\003\002\001\000\060\012\006\010\052\206\110\316\075
\004\003\003\003\150\000\060\145\002\060\130\362\115\352\014\371
\137\136\356\140\051\313\072\362\333\326\062\204\031\077\174\325
\057\302\261\314\223\256\120\273\011\062\306\306\355\176\311\066
\224\022\344\150\205\006\242\033\320\057\002\061\000\231\351\026
\264\016\372\126\110\324\244\060\026\221\170\333\124\214\145\001
\212\347\120\146\302\061\267\071\272\270\032\042\007\116\374\153
\124\026\040\377\053\265\347\114\014\115\246\117\163
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Microsoft ECC Root Certificate Authority 2017"
Issuer: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
Serial Number:66:f2:3d:af:87:de:8b:b1:4a:ea:0c:57:31:01:c2:ec
Subject: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
Not Valid Before: Wed Dec 18 23:06:45 2019
Not Valid After : Fri Jul 18 23:16:04 2042
Fingerprint (SHA-256):

35:8D:F3:9D:76:4A:F9:E1:B7:66:E9:C9:72:DF:35:2E:E1:5C:FA:C2:27:AF:6A:D1:D7:0E:8E:4A:6E:DC:BA:02
Fingerprint (SHA1): 99:9A:64:C3:7F:F4:7D:9F:AB:95:F1:47:69:89:14:60:EE:C4:C3:C5
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft ECC Root Certificate Authority 2017"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\231\232\144\303\177\364\175\237\253\225\361\107\151\211\024\140
\356\304\303\305
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\335\241\003\346\112\223\020\321\277\360\031\102\313\376\355\147
END
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\105\103\103\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\146\362\075\257\207\336\213\261\112\352\014\127\061\001
\302\354
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Microsoft RSA Root Certificate Authority 2017"
#
Issuer: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
Serial Number:1e:d3:97:09:5f:d8:b4:b3:47:70:1e:aa:be:7f:45:b3
Subject: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
Not Valid Before: Wed Dec 18 22:51:22 2019
Not Valid After : Fri Jul 18 23:00:23 2042
Fingerprint (SHA-256):
C7:41:F7:0F:4B:2A:8D:88:BF:2E:71:C1:41:22:EF:53:EF:10:EB:A0:CF:A5:E6:4C:FA:20:F4:18:85:30:73:E0
Fingerprint (SHA1): 73:A5:E6:4A:3B:FF:83:16:FF:0E:DC:CC:61:8A:90:6E:4E:AE:4D:74
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft RSA Root Certificate Authority 2017"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\122\123\101\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\122\123\101\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\036\323\227\011\137\330\264\263\107\160\036\252\276\177
\105\263
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\250\060\202\003\220\240\003\002\001\002\002\020\036
\323\227\011\137\330\264\263\107\160\036\252\276\177\105\263\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\145
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\036\060
\034\006\003\125\004\012\023\025\115\151\143\162\157\163\157\146
\164\040\103\157\162\160\157\162\141\164\151\157\156\061\066\060
\064\006\003\125\004\003\023\055\115\151\143\162\157\163\157\146
\164\040\122\123\101\040\122\157\157\164\040\103\145\162\164\151
\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171
\040\062\060\061\067\060\036\027\015\061\071\061\062\061\070\062
\062\065\061\062\062\132\027\015\064\062\060\067\061\070\062\063
\060\060\062\063\132\060\145\061\013\060\011\006\003\125\004\006
\023\002\125\123\061\036\060\034\006\003\125\004\012\023\025\115
\151\143\162\157\163\157\146\164\040\103\157\162\160\157\162\141
\164\151\157\156\061\066\060\064\006\003\125\004\003\023\055\115
\151\143\162\157\163\157\146\164\040\122\123\101\040\122\157\157
\164\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165
\164\150\157\162\151\164\171\040\062\060\061\067\060\202\002\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\002\017\000\060\202\002\012\002\202\002\001\000\312\133\276
\224\063\214\051\225\221\026\012\225\275\107\142\301\211\363\231
\066\337\106\220\311\245\355\170\152\157\107\221\150\370\047\147
\120\063\035\241\246\373\340\345\103\243\204\002\127\001\135\234

\110\100\202\123\020\274\277\307\073\150\220\266\202\055\345\364
\145\320\314\155\031\314\225\371\173\254\112\224\255\016\336\113
\103\035\207\007\222\023\220\200\203\144\065\071\004\374\345\351
\154\263\266\037\120\224\070\145\120\134\027\106\271\266\205\265
\034\265\027\350\326\105\235\330\262\046\260\312\304\160\112\256
\140\244\335\263\331\354\374\073\325\127\162\274\077\310\311\262
\336\113\153\370\043\154\003\300\005\275\225\307\315\163\073\146
\200\144\343\032\254\056\371\107\005\362\006\266\233\163\365\170
\063\133\307\241\373\047\052\241\264\232\221\214\221\323\072\202
\076\166\100\264\315\122\141\121\160\050\077\305\305\132\362\311
\214\111\273\024\133\115\310\377\147\115\114\022\226\255\365\376
\170\250\227\207\327\375\136\040\200\334\241\113\042\373\324\211
\255\272\316\107\227\107\125\173\217\105\310\147\050\204\225\034
\150\060\357\357\111\340\065\173\144\347\230\260\224\332\115\205
\073\076\125\304\050\257\127\363\236\023\333\106\047\237\036\242
\136\104\203\244\245\312\325\023\263\113\077\304\343\302\346\206
\141\244\122\060\271\172\040\117\157\017\070\123\313\063\014\023
\053\217\326\232\275\052\310\055\261\034\175\113\121\312\107\321
\110\047\162\135\207\353\325\105\346\110\145\235\257\122\220\272
\133\242\030\145\127\022\237\150\271\324\025\153\224\304\151\042
\230\364\063\340\355\371\121\216\101\120\311\064\117\166\220\254
\374\070\301\330\341\173\271\343\343\224\341\106\151\313\016\012
\120\153\023\272\254\017\067\132\267\022\265\220\201\036\126\256
\127\042\206\331\311\322\321\327\121\343\253\073\306\125\375\036
\016\323\164\012\321\332\252\352\151\270\227\050\217\110\304\007
\370\122\103\072\364\312\125\065\054\260\246\152\300\234\371\362
\201\341\022\152\300\105\331\147\263\316\377\043\242\211\012\124
\324\024\271\052\250\327\354\371\253\315\045\130\062\171\217\220
\133\230\071\304\010\006\301\254\177\016\075\000\245\002\003\001
\000\001\243\124\060\122\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026
\004\024\011\313\131\177\206\262\160\217\032\303\071\343\300\331
\351\277\273\115\262\043\060\020\006\011\053\006\001\004\001\202
\067\025\001\004\003\002\001\000\060\015\006\011\052\206\110\206
\367\015\001\001\014\005\000\003\202\002\001\000\254\257\076\135
\302\021\226\211\216\243\347\222\326\227\025\270\023\242\246\102
\056\002\315\026\005\131\047\312\040\350\272\270\350\032\354\115
\250\227\126\256\145\103\261\217\000\233\122\315\125\315\123\071
\155\142\114\213\015\133\174\056\104\277\203\020\217\363\123\202
\200\303\117\072\307\156\021\077\346\343\026\221\204\373\155\204
\177\064\164\255\211\247\316\271\327\327\237\204\144\222\276\225
\241\255\011\123\063\335\356\012\352\112\121\216\157\125\253\272
\265\224\106\256\214\177\330\242\120\045\145\140\200\106\333\063
\004\256\154\265\230\164\124\045\334\223\344\370\343\125\025\075
\270\155\303\012\244\022\301\151\205\156\337\144\361\123\231\341
\112\165\040\235\225\017\344\326\334\003\361\131\030\350\107\211
\262\127\132\224\266\251\330\027\053\027\111\345\166\313\301\126

\231\072\067\261\377\151\054\221\221\223\341\337\114\243\067\166
\115\241\237\370\155\036\035\323\372\354\373\364\105\035\023\155
\317\367\131\345\042\047\162\053\206\363\127\273\060\355\044\115
\334\175\126\273\243\263\370\064\171\211\301\340\362\002\141\367
\246\374\017\273\034\027\013\256\101\331\174\275\047\243\375\056
\072\321\223\224\261\163\035\044\213\257\133\040\211\255\267\147
\146\171\365\072\306\246\226\063\376\123\222\310\106\261\021\221
\306\231\177\217\311\326\146\061\040\101\020\207\055\014\326\301
\257\064\230\312\144\203\373\023\127\321\301\360\074\172\214\245
\301\375\225\041\240\161\301\223\147\161\022\352\217\210\012\151
\031\144\231\043\126\373\254\052\056\160\276\146\304\014\204\357
\345\213\363\223\001\370\152\220\223\147\113\262\150\243\265\142
\217\351\077\214\172\073\136\017\347\214\270\306\174\357\067\375
\164\342\310\117\063\162\341\224\071\155\275\022\257\276\014\116
\160\174\033\157\215\263\062\223\163\104\026\155\350\364\367\340
\225\200\217\226\135\070\244\364\253\336\012\060\207\223\330\115
\000\161\142\105\047\113\072\102\204\133\177\145\267\147\064\122
\055\234\026\153\252\250\330\173\243\102\114\161\307\014\312\076
\203\344\246\357\267\001\060\136\121\243\171\365\160\151\246\101
\104\017\206\260\054\221\306\075\352\256\017\204
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Microsoft RSA Root Certificate Authority 2017"
Issuer: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
Serial Number:1e:d3:97:09:5f:d8:b4:b3:47:70:1e:aa:be:7f:45:b3
Subject: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
Not Valid Before: Wed Dec 18 22:51:22 2019
Not Valid After : Fri Jul 18 23:00:23 2042
Fingerprint (SHA-256):
C7:41:F7:0F:4B:2A:8D:88:BF:2E:71:C1:41:22:EF:53:EF:10:EB:A0:CF:A5:E6:4C:FA:20:F4:18:85:30:73:E0
Fingerprint (SHA1): 73:A5:E6:4A:3B:FF:83:16:FF:0E:DC:CC:61:8A:90:6E:4E:AE:4D:74
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft RSA Root Certificate Authority 2017"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\163\245\346\112\073\377\203\026\377\016\334\314\141\212\220\156
\116\256\115\164
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\020\377\000\377\317\311\370\307\172\300\356\065\216\311\017\107
END
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061

\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\122\123\101\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\036\323\227\011\137\330\264\263\107\160\036\252\276\177
\105\263
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "e-Szigno Root CA 2017"
#
Issuer: CN=e-Szigno Root CA 2017,OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU
Serial Number:01:54:48:ef:21:fd:97:59:0d:f5:04:0a
Subject: CN=e-Szigno Root CA 2017,OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU
Not Valid Before: Tue Aug 22 12:07:06 2017
Not Valid After : Fri Aug 22 12:07:06 2042
Fingerprint (SHA-256):
BE:B0:0B:30:83:9B:9B:C3:2C:32:E4:44:79:05:95:06:41:F2:64:21:B1:5E:D0:89:19:8B:51:8A:E2:EA:1B:99
Fingerprint (SHA1): 89:D4:83:03:4F:9E:9A:48:80:5F:72:37:D4:A9:A6:EF:CB:7C:1F:D1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "e-Szigno Root CA 2017"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\161\061\013\060\011\006\003\125\004\006\023\002\110\125\061
\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160\145
\163\164\061\026\060\024\006\003\125\004\012\014\015\115\151\143
\162\157\163\145\143\040\114\164\144\056\061\027\060\025\006\003
\125\004\141\014\016\126\101\124\110\125\055\062\063\065\070\064
\064\071\067\061\036\060\034\006\003\125\004\003\014\025\145\055
\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040\062
\060\061\067
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\161\061\013\060\011\006\003\125\004\006\023\002\110\125\061
\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160\145
\163\164\061\026\060\024\006\003\125\004\012\014\015\115\151\143

\162\157\163\145\143\040\114\164\144\056\061\027\060\025\006\003
\125\004\141\014\016\126\101\124\110\125\055\062\063\065\070\064
\064\071\067\061\036\060\034\006\003\125\004\003\014\025\145\055
\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040\062
\060\061\067
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\001\124\110\357\041\375\227\131\015\365\004\012
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\100\060\202\001\345\240\003\002\001\002\002\014\001
\124\110\357\041\375\227\131\015\365\004\012\060\012\006\010\052
\206\110\316\075\004\003\002\060\161\061\013\060\011\006\003\125
\004\006\023\002\110\125\061\021\060\017\006\003\125\004\007\014
\010\102\165\144\141\160\145\163\164\061\026\060\024\006\003\125
\004\012\014\015\115\151\143\162\157\163\145\143\040\114\164\144
\056\061\027\060\025\006\003\125\004\141\014\016\126\101\124\110
\125\055\062\063\065\070\064\064\071\067\061\036\060\034\006\003
\125\004\003\014\025\145\055\123\172\151\147\156\157\040\122\157
\157\164\040\103\101\040\062\060\061\067\060\036\027\015\061\067
\060\070\062\062\061\062\060\067\060\066\132\027\015\064\062\060
\070\062\062\061\062\060\067\060\066\132\060\161\061\013\060\011
\006\003\125\004\006\023\002\110\125\061\021\060\017\006\003\125
\004\007\014\010\102\165\144\141\160\145\163\164\061\026\060\024
\006\003\125\004\012\014\015\115\151\143\162\157\163\145\143\040
\114\164\144\056\061\027\060\025\006\003\125\004\141\014\016\126
\101\124\110\125\055\062\063\065\070\064\064\071\067\061\036\060
\034\006\003\125\004\003\014\025\145\055\123\172\151\147\156\157
\040\122\157\157\164\040\103\101\040\062\060\061\067\060\131\060
\023\006\007\052\206\110\316\075\002\001\006\010\052\206\110\316
\075\003\001\007\003\102\000\004\226\334\075\212\330\260\173\157
\306\047\276\104\220\261\263\126\025\173\216\103\044\175\032\204
\131\356\143\150\262\306\136\207\320\025\110\036\250\220\255\275
\123\242\332\336\072\220\246\140\137\150\062\265\206\101\337\207
\133\054\173\305\376\174\172\332\243\143\060\141\060\017\006\003
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\035\006
\003\125\035\016\004\026\004\024\207\021\025\010\321\252\301\170
\014\261\257\316\306\311\220\357\277\060\004\300\060\037\006\003
\125\035\043\004\030\060\026\200\024\207\021\025\010\321\252\301
\170\014\261\257\316\306\311\220\357\277\060\004\300\060\012\006
\010\052\206\110\316\075\004\003\002\003\111\000\060\106\002\041
\000\265\127\335\327\212\125\013\066\341\206\104\372\324\331\150
\215\270\334\043\212\212\015\324\057\175\352\163\354\277\115\154
\250\002\041\000\313\245\264\022\372\347\265\350\317\176\223\374
\363\065\217\157\116\132\174\264\274\116\262\374\162\252\133\131
\371\347\334\061
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "e-Szigno Root CA 2017"
Issuer: CN=e-Szigno Root CA 2017,OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU
Serial Number:01:54:48:ef:21:fd:97:59:0d:f5:04:0a
Subject: CN=e-Szigno Root CA 2017,OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU
Not Valid Before: Tue Aug 22 12:07:06 2017
Not Valid After : Fri Aug 22 12:07:06 2042
Fingerprint (SHA-256):
BE:B0:0B:30:83:9B:9B:C3:2C:32:E4:44:79:05:95:06:41:F2:64:21:B1:5E:D0:89:19:8B:51:8A:E2:EA:1B:99
Fingerprint (SHA1): 89:D4:83:03:4F:9E:9A:48:80:5F:72:37:D4:A9:A6:EF:CB:7C:1F:D1
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "e-Szigno Root CA 2017"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\211\324\203\003\117\236\232\110\200\137\162\067\324\251\246\357
\313\174\037\321
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\336\037\366\236\204\256\247\264\041\316\036\130\175\321\204\230
END
CKA_ISSUER MULTILINE_OCTAL
\060\161\061\013\060\011\006\003\125\004\006\023\002\110\125\061
\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160\145
\163\164\061\026\060\024\006\003\125\004\012\014\015\115\151\143
\162\157\163\145\143\040\114\164\144\056\061\027\060\025\006\003
\125\004\141\014\016\126\101\124\110\125\055\062\063\065\070\064
\064\071\067\061\036\060\034\006\003\125\004\003\014\025\145\055
\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040\062
\060\061\067
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\001\124\110\357\041\375\227\131\015\365\004\012
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "certSIGN Root CA G2"
#
Issuer: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
Serial Number:11:00:34:b6:4e:c6:36:2d:36

Subject: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
Not Valid Before: Mon Feb 06 09:27:35 2017
Not Valid After : Thu Feb 06 09:27:35 2042
Fingerprint (SHA-256):
65:7C:FE:2F:A7:3F:AA:38:46:25:71:F3:32:A2:36:3A:46:FC:E7:02:09:51:71:07:02:CD:FB:B6:EE:DA:33:05
Fingerprint (SHA1): 26:F9:93:B4:ED:3D:28:27:B0:B9:4B:A7:E9:15:1D:A3:8D:92:E5:32
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN Root CA G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\101\061\013\060\011\006\003\125\004\006\023\002\122\117\061
\024\060\022\006\003\125\004\012\023\013\103\105\122\124\123\111
\107\116\040\123\101\061\034\060\032\006\003\125\004\013\023\023
\143\145\162\164\123\111\107\116\040\122\117\117\124\040\103\101
\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\101\061\013\060\011\006\003\125\004\006\023\002\122\117\061
\024\060\022\006\003\125\004\012\023\013\103\105\122\124\123\111
\107\116\040\123\101\061\034\060\032\006\003\125\004\013\023\023
\143\145\162\164\123\111\107\116\040\122\117\117\124\040\103\101
\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\021\000\064\266\116\306\066\055\066
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\107\060\202\003\057\240\003\002\001\002\002\011\021
\000\064\266\116\306\066\055\066\060\015\006\011\052\206\110\206
\367\015\001\001\013\005\000\060\101\061\013\060\011\006\003\125
\004\006\023\002\122\117\061\024\060\022\006\003\125\004\012\023
\013\103\105\122\124\123\111\107\116\040\123\101\061\034\060\032
\006\003\125\004\013\023\023\143\145\162\164\123\111\107\116\040
\122\117\117\124\040\103\101\040\107\062\060\036\027\015\061\067
\060\062\060\066\060\071\062\067\063\065\132\027\015\064\062\060
\062\060\066\060\071\062\067\063\065\132\060\101\061\013\060\011
\006\003\125\004\006\023\002\122\117\061\024\060\022\006\003\125
\004\012\023\013\103\105\122\124\123\111\107\116\040\123\101\061
\034\060\032\006\003\125\004\013\023\023\143\145\162\164\123\111
\107\116\040\122\117\117\124\040\103\101\040\107\062\060\202\002
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000
\003\202\002\017\000\060\202\002\012\002\202\002\001\000\300\305
\165\031\221\175\104\164\164\207\376\016\073\226\334\330\001\026
\314\356\143\221\347\013\157\316\073\012\151\032\174\302\343\257

\202\216\206\327\136\217\127\353\323\041\131\375\071\067\102\060
\276\120\352\266\017\251\210\330\056\055\151\041\347\321\067\030
\116\175\221\325\026\137\153\133\000\302\071\103\015\066\205\122
\271\123\145\017\035\102\345\217\317\005\323\356\334\014\032\331
\270\213\170\042\147\344\151\260\150\305\074\344\154\132\106\347
\315\307\372\357\304\354\113\275\152\244\254\375\314\050\121\357
\222\264\051\253\253\065\232\114\344\304\010\306\046\314\370\151
\237\344\234\360\051\323\134\371\306\026\045\236\043\303\040\301
\075\017\077\070\100\260\376\202\104\070\252\132\032\212\153\143
\130\070\264\025\323\266\021\151\173\036\124\356\214\032\042\254
\162\227\077\043\131\233\311\042\204\301\007\117\314\177\342\127
\312\022\160\273\246\145\363\151\165\143\275\225\373\033\227\315
\344\250\257\366\321\116\250\331\212\161\044\315\066\075\274\226
\304\361\154\251\256\345\317\015\156\050\015\260\016\265\312\121
\173\170\024\303\040\057\177\373\024\125\341\021\231\375\325\012
\241\236\002\343\142\137\353\065\113\054\270\162\350\076\075\117
\254\054\273\056\206\342\243\166\217\345\223\052\317\245\253\310
\134\215\113\006\377\022\106\254\170\313\024\007\065\340\251\337
\213\351\257\025\117\026\211\133\275\366\215\306\131\256\210\205
\016\301\211\353\037\147\305\105\216\377\155\067\066\053\170\146
\203\221\121\053\075\377\121\167\166\142\241\354\147\076\076\201
\203\340\126\251\120\037\037\172\231\253\143\277\204\027\167\361
\015\073\337\367\234\141\263\065\230\212\072\262\354\074\032\067
\077\176\217\222\317\331\022\024\144\332\020\002\025\101\377\117
\304\353\034\243\311\372\231\367\106\351\341\030\331\261\270\062
\055\313\024\014\120\330\203\145\203\356\271\134\317\313\005\132
\114\372\031\227\153\326\135\023\323\302\134\124\274\062\163\240
\170\365\361\155\036\313\237\245\246\237\042\334\321\121\236\202
\171\144\140\051\023\076\243\375\117\162\152\253\342\324\345\270
\044\125\054\104\113\212\210\104\234\312\204\323\052\073\002\003
\001\000\001\243\102\060\100\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\016\006\003\125\035\017\001
\001\377\004\004\003\002\001\006\060\035\006\003\125\035\016\004
\026\004\024\202\041\055\146\306\327\240\340\025\353\316\114\011
\167\304\140\236\124\156\003\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\003\202\002\001\000\140\336\032\270\347
\362\140\202\325\003\063\201\313\006\212\361\042\111\351\350\352
\221\177\306\063\136\150\031\003\206\073\103\001\317\007\160\344
\010\036\145\205\221\346\021\042\267\365\002\043\216\256\271\036
\175\037\176\154\346\275\045\325\225\032\362\005\246\257\205\002
\157\256\370\326\061\377\045\311\112\310\307\212\251\331\237\113
\111\233\021\127\231\222\103\021\336\266\063\244\314\327\215\144
\175\324\315\074\050\054\264\232\226\352\115\365\304\104\304\045
\252\040\200\330\051\125\367\340\101\374\006\046\377\271\066\365
\103\024\003\146\170\341\021\261\332\040\137\106\000\170\000\041
\245\036\000\050\141\170\157\250\001\001\217\235\064\232\377\364
\070\220\373\270\321\263\162\006\311\161\346\201\305\171\355\013
\246\171\362\023\013\234\367\135\016\173\044\223\264\110\333\206

\137\336\120\206\170\347\100\346\061\250\220\166\160\141\257\234
\067\054\021\265\202\267\252\256\044\064\133\162\014\151\015\315
\131\237\366\161\257\234\013\321\012\070\371\006\042\203\123\045
\014\374\121\304\346\276\342\071\225\013\044\255\257\321\225\344
\226\327\164\144\153\161\116\002\074\252\205\363\040\243\103\071
\166\133\154\120\376\232\234\024\036\145\024\212\025\275\243\202
\105\132\111\126\152\322\234\261\143\062\345\141\340\123\042\016
\247\012\111\352\313\176\037\250\342\142\200\366\020\105\122\230
\006\030\336\245\315\057\177\252\324\351\076\010\162\354\043\003
\002\074\246\252\330\274\147\164\075\024\027\373\124\113\027\343
\323\171\075\155\153\111\311\050\016\056\164\120\277\014\331\106
\072\020\206\311\247\077\351\240\354\177\353\245\167\130\151\161
\346\203\012\067\362\206\111\152\276\171\010\220\366\002\026\144
\076\345\332\114\176\014\064\311\371\137\266\263\050\121\247\247
\053\252\111\372\215\145\051\116\343\153\023\247\224\243\055\121
\155\170\014\104\313\337\336\010\157\316\243\144\253\323\225\204
\324\271\122\124\162\173\226\045\314\274\151\343\110\156\015\320
\307\235\047\232\252\370\023\222\335\036\337\143\237\065\251\026
\066\354\214\270\203\364\075\211\217\315\264\027\136\327\263\027
\101\020\135\047\163\140\205\127\111\042\007
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "certSIGN Root CA G2"
Issuer: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
Serial Number:11:00:34:b6:4e:c6:36:2d:36
Subject: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
Not Valid Before: Mon Feb 06 09:27:35 2017
Not Valid After : Thu Feb 06 09:27:35 2042
Fingerprint (SHA-256):
65:7C:FE:2F:A7:3F:AA:38:46:25:71:F3:32:A2:36:3A:46:FC:E7:02:09:51:71:07:02:CD:FB:B6:EE:DA:33:05
Fingerprint (SHA1): 26:F9:93:B4:ED:3D:28:27:B0:B9:4B:A7:E9:15:1D:A3:8D:92:E5:32
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN Root CA G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\046\371\223\264\355\075\050\047\260\271\113\247\351\025\035\243
\215\222\345\062
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\214\361\165\212\306\031\317\224\267\367\145\040\207\303\227\307
END
CKA_ISSUER MULTILINE_OCTAL
\060\101\061\013\060\011\006\003\125\004\006\023\002\122\117\061

\024\060\022\006\003\125\004\012\023\013\103\105\122\124\123\111
\107\116\040\123\101\061\034\060\032\006\003\125\004\013\023\023
\143\145\162\164\123\111\107\116\040\122\117\117\124\040\103\101
\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\021\000\064\266\116\306\066\055\066
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Trustwave Global Certification Authority"
#
Issuer: CN=Trustwave Global Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
Serial Number:05:f7:0e:86:da:49:f3:46:35:2e:ba:b2
Subject: CN=Trustwave Global Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
Not Valid Before: Wed Aug 23 19:34:12 2017
Not Valid After : Sat Aug 23 19:34:12 2042
Fingerprint (SHA-256):
97:55:20:15:F5:DD:FC:3C:87:88:C0:06:94:45:55:40:88:94:45:00:84:F1:00:86:70:86:BC:1A:2B:B5:8D:C8
Fingerprint (SHA1): 2F:8F:36:4F:E1:58:97:44:21:59:87:A5:2A:9A:D0:69:95:26:7F:B5
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\014\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\014\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\014\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\061\060\057\006\003\125\004
\003\014\050\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\014\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\014\007\103\150

\151\143\141\147\157\061\041\060\037\006\003\125\004\012\014\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\061\060\057\006\003\125\004
\003\014\050\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\005\367\016\206\332\111\363\106\065\056\272\262
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\332\060\202\003\302\240\003\002\001\002\002\014\005
\367\016\206\332\111\363\106\065\056\272\262\060\015\006\011\052
\206\110\206\367\015\001\001\013\005\000\060\201\210\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\021\060\017\006\003
\125\004\010\014\010\111\154\154\151\156\157\151\163\061\020\060
\016\006\003\125\004\007\014\007\103\150\151\143\141\147\157\061
\041\060\037\006\003\125\004\012\014\030\124\162\165\163\164\167
\141\166\145\040\110\157\154\144\151\156\147\163\054\040\111\156
\143\056\061\061\060\057\006\003\125\004\003\014\050\124\162\165
\163\164\167\141\166\145\040\107\154\157\142\141\154\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171\060\036\027\015\061\067\060\070\062\063\061
\071\063\064\061\062\132\027\015\064\062\060\070\062\063\061\071
\063\064\061\062\132\060\201\210\061\013\060\011\006\003\125\004
\006\023\002\125\123\061\021\060\017\006\003\125\004\010\014\010
\111\154\154\151\156\157\151\163\061\020\060\016\006\003\125\004
\007\014\007\103\150\151\143\141\147\157\061\041\060\037\006\003
\125\004\012\014\030\124\162\165\163\164\167\141\166\145\040\110
\157\154\144\151\156\147\163\054\040\111\156\143\056\061\061\060
\057\006\003\125\004\003\014\050\124\162\165\163\164\167\141\166
\145\040\107\154\157\142\141\154\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001
\000\271\135\121\050\113\074\067\222\321\202\316\275\035\275\315
\335\270\253\317\012\076\341\135\345\334\252\011\271\127\002\076
\346\143\141\337\362\017\202\143\256\243\367\254\163\321\174\347
\263\013\257\010\000\011\131\177\315\051\052\210\223\207\027\030
\200\355\210\262\264\266\020\037\055\326\137\125\242\023\135\321
\306\353\006\126\211\210\376\254\062\235\375\134\303\005\307\156
\356\206\211\272\210\003\235\162\041\206\220\256\217\003\245\334
\237\210\050\313\243\222\111\017\354\320\017\342\155\104\117\200
\152\262\324\347\240\012\123\001\272\216\227\221\166\156\274\374
\325\153\066\346\100\210\326\173\057\137\005\350\054\155\021\363
\347\262\276\222\104\114\322\227\244\376\322\162\201\103\007\234
\351\021\076\365\213\032\131\175\037\150\130\335\004\000\054\226
\363\103\263\176\230\031\164\331\234\163\331\030\276\101\307\064

\171\331\364\142\302\103\271\263\047\260\042\313\371\075\122\307
\060\107\263\311\076\270\152\342\347\350\201\160\136\102\213\117
\046\245\376\072\302\040\156\273\370\026\216\315\014\251\264\033
\154\166\020\341\130\171\106\076\124\316\200\250\127\011\067\051
\033\231\023\217\014\310\326\054\034\373\005\350\010\225\075\145
\106\334\356\315\151\342\115\217\207\050\116\064\013\076\317\024
\331\273\335\266\120\232\255\167\324\031\326\332\032\210\310\116
\033\047\165\330\262\010\361\256\203\060\271\021\016\315\207\360
\204\215\025\162\174\241\357\314\362\210\141\272\364\151\273\014
\214\013\165\127\004\270\116\052\024\056\075\017\034\036\062\246
\142\066\356\146\342\042\270\005\100\143\020\042\363\063\035\164
\162\212\054\365\071\051\240\323\347\033\200\204\055\305\075\343
\115\261\375\032\157\272\145\007\073\130\354\102\105\046\373\330
\332\045\162\304\366\000\261\042\171\275\343\174\131\142\112\234
\005\157\075\316\346\326\107\143\231\306\044\157\162\022\310\254
\177\220\264\013\221\160\350\267\346\026\020\161\027\316\336\006
\117\110\101\175\065\112\243\211\362\311\113\173\101\021\155\147
\267\010\230\114\345\021\031\256\102\200\334\373\220\005\324\370
\120\312\276\344\255\307\302\224\327\026\235\346\027\217\257\066
\373\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125
\035\016\004\026\004\024\231\340\031\147\015\142\333\166\263\332
\075\270\133\350\375\102\322\061\016\207\060\016\006\003\125\035
\017\001\001\377\004\004\003\002\001\006\060\015\006\011\052\206
\110\206\367\015\001\001\013\005\000\003\202\002\001\000\230\163
\160\342\260\323\355\071\354\114\140\331\251\022\206\027\036\226
\320\350\124\050\073\144\055\041\246\370\235\126\023\152\110\075
\117\307\076\051\333\155\130\203\124\075\207\175\043\005\324\344
\034\334\350\070\145\206\305\165\247\132\333\065\005\275\167\336
\273\051\067\100\005\007\303\224\122\237\312\144\335\361\033\053
\334\106\012\020\002\061\375\112\150\015\007\144\220\346\036\365
\052\241\250\273\074\135\371\243\010\013\021\014\361\077\055\020
\224\157\376\342\064\207\203\326\317\345\033\065\155\322\003\341
\260\015\250\240\252\106\047\202\066\247\025\266\010\246\102\124
\127\266\231\132\342\013\171\220\327\127\022\121\065\031\210\101
\150\045\324\067\027\204\025\373\001\162\334\225\336\122\046\040
\230\046\342\166\365\047\157\372\000\073\112\141\331\015\313\121
\223\052\375\026\006\226\247\043\232\043\110\376\121\275\266\304
\260\261\124\316\336\154\101\255\026\147\176\333\375\070\315\271
\070\116\262\301\140\313\235\027\337\130\236\172\142\262\046\217
\164\225\233\344\133\035\322\017\335\230\034\233\131\271\043\323
\061\240\246\377\070\335\317\040\117\351\130\126\072\147\303\321
\366\231\231\235\272\066\266\200\057\210\107\117\206\277\104\072
\200\344\067\034\246\272\352\227\230\021\320\204\142\107\144\036
\252\356\100\277\064\261\234\217\116\341\362\222\117\037\216\363
\236\227\336\363\246\171\152\211\161\117\113\047\027\110\376\354
\364\120\017\117\111\175\314\105\343\275\172\100\305\101\334\141
\126\047\006\151\345\162\101\201\323\266\001\211\240\057\072\162

\171\376\072\060\277\101\354\307\142\076\221\113\307\331\061\166
\102\371\367\074\143\354\046\214\163\014\175\032\035\352\250\174
\207\250\302\047\174\341\063\101\017\317\317\374\000\240\042\200
\236\112\247\157\000\260\101\105\267\042\312\150\110\305\102\242
\256\335\035\362\340\156\116\005\130\261\300\220\026\052\244\075
\020\100\276\217\142\143\203\251\234\202\175\055\002\351\203\060
\174\313\047\311\375\036\146\000\260\056\323\041\057\216\063\026
\154\230\355\020\250\007\326\314\223\317\333\321\151\034\344\312
\311\340\266\234\351\316\161\161\336\154\077\026\244\171
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Trustwave Global Certification Authority"
Issuer: CN=Trustwave Global Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
Serial Number:05:f7:0e:86:da:49:f3:46:35:2e:ba:b2
Subject: CN=Trustwave Global Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
Not Valid Before: Wed Aug 23 19:34:12 2017
Not Valid After : Sat Aug 23 19:34:12 2042
Fingerprint (SHA-256):
97:55:20:15:F5:DD:FC:3C:87:88:C0:06:94:45:55:40:88:94:45:00:84:F1:00:86:70:86:BC:1A:2B:B5:8D:C8
Fingerprint (SHA1): 2F:8F:36:4F:E1:58:97:44:21:59:87:A5:2A:9A:D0:69:95:26:7F:B5
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\057\217\066\117\341\130\227\104\041\131\207\245\052\232\320\151
\225\046\177\265
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\370\034\030\055\057\272\137\155\241\154\274\307\253\221\307\016
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\014\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\014\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\014\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\061\060\057\006\003\125\004
\003\014\050\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\005\367\016\206\332\111\363\106\065\056\272\262
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Trustwave Global ECC P256 Certification Authority"
#
Issuer: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
Serial Number:0d:6a:5f:08:3f:28:5c:3e:51:95:df:5d
Subject: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
Not Valid Before: Wed Aug 23 19:35:10 2017
Not Valid After : Sat Aug 23 19:35:10 2042
Fingerprint (SHA-256):
94:5B:BC:82:5E:A5:54:F4:89:D1:FD:51:A7:3D:DF:2E:A6:24:AC:70:19:A0:52:05:22:5C:22:A7:8C:CF:A8:B4
Fingerprint (SHA1): B4:90:82:DD:45:0C:BE:8B:5B:B1:66:D3:E2:A4:08:26:CD:ED:42:CF
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global ECC P256 Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\221\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\023\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\103\040\120\062\065\066\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\221\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\023\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157

\142\141\154\040\105\103\103\040\120\062\065\066\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\015\152\137\010\077\050\134\076\121\225\337\135
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\140\060\202\002\007\240\003\002\001\002\002\014\015
\152\137\010\077\050\134\076\121\225\337\135\060\012\006\010\052
\206\110\316\075\004\003\002\060\201\221\061\013\060\011\006\003
\125\004\006\023\002\125\123\061\021\060\017\006\003\125\004\010
\023\010\111\154\154\151\156\157\151\163\061\020\060\016\006\003
\125\004\007\023\007\103\150\151\143\141\147\157\061\041\060\037
\006\003\125\004\012\023\030\124\162\165\163\164\167\141\166\145
\040\110\157\154\144\151\156\147\163\054\040\111\156\143\056\061
\072\060\070\006\003\125\004\003\023\061\124\162\165\163\164\167
\141\166\145\040\107\154\157\142\141\154\040\105\103\103\040\120
\062\065\066\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\060\036\027\015\061
\067\060\070\062\063\061\071\063\065\061\060\132\027\015\064\062
\060\070\062\063\061\071\063\065\061\060\132\060\201\221\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\021\060\017\006
\003\125\004\010\023\010\111\154\154\151\156\157\151\163\061\020
\060\016\006\003\125\004\007\023\007\103\150\151\143\141\147\157
\061\041\060\037\006\003\125\004\012\023\030\124\162\165\163\164
\167\141\166\145\040\110\157\154\144\151\156\147\163\054\040\111
\156\143\056\061\072\060\070\006\003\125\004\003\023\061\124\162
\165\163\164\167\141\166\145\040\107\154\157\142\141\154\040\105
\103\103\040\120\062\065\066\040\103\145\162\164\151\146\151\143
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\060
\131\060\023\006\007\052\206\110\316\075\002\001\006\010\052\206
\110\316\075\003\001\007\003\102\000\004\176\373\154\346\043\343
\163\062\010\312\140\346\123\234\272\164\215\030\260\170\220\122
\200\335\070\300\112\035\321\250\314\223\244\227\006\070\312\015
\025\142\306\216\001\052\145\235\252\337\064\221\056\201\301\344
\063\222\061\304\375\011\072\246\077\255\243\103\060\101\060\017
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060
\017\006\003\125\035\017\001\001\377\004\005\003\003\007\006\000
\060\035\006\003\125\035\016\004\026\004\024\243\101\006\254\220
\155\321\112\353\165\245\112\020\231\263\261\241\213\112\367\060
\012\006\010\052\206\110\316\075\004\003\002\003\107\000\060\104
\002\040\007\346\124\332\016\240\132\262\256\021\237\207\305\266
\377\151\336\045\276\370\240\267\010\363\104\316\052\337\010\041
\014\067\002\040\055\046\003\240\005\275\153\321\366\134\370\145
\314\206\155\263\234\064\110\143\204\011\305\215\167\032\342\314
\234\341\164\173
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Trustwave Global ECC P256 Certification Authority"
Issuer: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
Serial Number:0d:6a:5f:08:3f:28:5c:3e:51:95:df:5d
Subject: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
Not Valid Before: Wed Aug 23 19:35:10 2017
Not Valid After : Sat Aug 23 19:35:10 2042
Fingerprint (SHA-256):
94:5B:BC:82:5E:A5:54:F4:89:D1:FD:51:A7:3D:DF:2E:A6:24:AC:70:19:A0:52:05:22:5C:22:A7:8C:CF:A8:B4
Fingerprint (SHA1): B4:90:82:DD:45:0C:BE:8B:5B:B1:66:D3:E2:A4:08:26:CD:ED:42:CF
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global ECC P256 Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\264\220\202\335\105\014\276\213\133\261\146\323\342\244\010\046
\315\355\102\317
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\133\104\343\215\135\066\206\046\350\015\005\322\131\247\203\124
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\221\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\023\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\103\040\120\062\065\066\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\015\152\137\010\077\050\134\076\121\225\337\135
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

```
# Certificate "Trustwave Global ECC P384 Certification Authority"
#
# Issuer: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
# Serial Number:08:bd:85:97:6c:99:27:a4:80:68:47:3b
# Subject: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
# Not Valid Before: Wed Aug 23 19:36:43 2017
# Not Valid After : Sat Aug 23 19:36:43 2042
# Fingerprint (SHA-256):
55:90:38:59:C8:C0:C3:EB:B8:75:9E:CE:4E:25:57:22:5F:F5:75:8B:BD:38:EB:D4:82:76:60:1E:1B:D5:80:97
# Fingerprint (SHA1): E7:F3:A3:C8:CF:6F:C3:04:2E:6D:0E:67:32:C5:9E:68:95:0D:5E:D2
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global ECC P384 Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\221\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\023\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\103\040\120\063\070\064\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\221\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\023\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\103\040\120\063\070\064\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\010\275\205\227\154\231\047\244\200\150\107\073
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\235\060\202\002\044\240\003\002\001\002\002\014\010
```

\275\205\227\154\231\047\244\200\150\107\073\060\012\006\010\052
\206\110\316\075\004\003\003\060\201\221\061\013\060\011\006\003
\125\004\006\023\002\125\123\061\021\060\017\006\003\125\004\010
\023\010\111\154\154\151\156\157\151\163\061\020\060\016\006\003
\125\004\007\023\007\103\150\151\143\141\147\157\061\041\060\037
\006\003\125\004\012\023\030\124\162\165\163\164\167\141\166\145
\040\110\157\154\144\151\156\147\163\054\040\111\156\143\056\061
\072\060\070\006\003\125\004\003\023\061\124\162\165\163\164\167
\141\166\145\040\107\154\157\142\141\154\040\105\103\103\040\120
\063\070\064\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\060\036\027\015\061
\067\060\070\062\063\061\071\063\066\064\063\132\027\015\064\062
\060\070\062\063\061\071\063\066\064\063\132\060\201\221\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\021\060\017\006
\003\125\004\010\023\010\111\154\154\151\156\157\151\163\061\020
\060\016\006\003\125\004\007\023\007\103\150\151\143\141\147\157
\061\041\060\037\006\003\125\004\012\023\030\124\162\165\163\164
\167\141\166\145\040\110\157\154\144\151\156\147\163\054\040\111
\156\143\056\061\072\060\070\006\003\125\004\003\023\061\124\162
\165\163\164\167\141\166\145\040\107\154\157\142\141\154\040\105
\103\103\040\120\063\070\064\040\103\145\162\164\151\146\151\143
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\060
\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201
\004\000\042\003\142\000\004\153\332\015\165\065\010\061\107\005
\256\105\231\125\361\021\023\056\112\370\020\061\043\243\176\203
\323\177\050\010\072\046\032\072\317\227\202\037\200\267\047\011
\217\321\216\060\304\012\233\016\254\130\004\253\367\066\175\224
\043\244\233\012\212\213\253\353\375\071\045\146\361\136\376\214
\256\215\101\171\235\011\140\316\050\251\323\212\155\363\326\105
\324\362\230\204\070\145\240\243\103\060\101\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\017\006\003
\125\035\017\001\001\377\004\005\003\003\007\006\000\060\035\006
\003\125\035\016\004\026\004\024\125\251\204\211\322\301\062\275
\030\313\154\246\007\116\310\347\235\276\202\220\060\012\006\010
\052\206\110\316\075\004\003\003\003\147\000\060\144\002\060\067
\001\222\227\105\022\176\240\363\076\255\031\072\162\335\364\120
\223\003\022\276\104\322\117\101\244\214\234\235\037\243\366\302
\222\347\110\024\376\116\233\245\221\127\256\306\067\162\273\002
\060\147\045\012\261\014\136\356\251\143\222\157\345\220\013\376
\146\042\312\107\375\212\061\367\203\376\172\277\020\276\030\053
\036\217\366\051\036\224\131\357\216\041\067\313\121\230\245\156
\113
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Trustwave Global ECC P384 Certification Authority"

```
# Issuer: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
# Serial Number:08:bd:85:97:6c:99:27:a4:80:68:47:3b
# Subject: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings,
Inc.",L=Chicago,ST=Illinois,C=US
# Not Valid Before: Wed Aug 23 19:36:43 2017
# Not Valid After : Sat Aug 23 19:36:43 2042
# Fingerprint (SHA-256):
55:90:38:59:C8:C0:C3:EB:B8:75:9E:CE:4E:25:57:22:5F:F5:75:8B:BD:38:EB:D4:82:76:60:1E:1B:D5:80:97
# Fingerprint (SHA1): E7:F3:A3:C8:CF:6F:C3:04:2E:6D:0E:67:32:C5:9E:68:95:0D:5E:D2
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global ECC P384 Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\347\363\243\310\317\157\303\004\056\155\016\147\062\305\236\150
\225\015\136\322
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\352\317\140\304\073\271\025\051\100\241\227\355\170\047\223\326
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\221\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\023\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\103\040\120\063\070\064\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\010\275\205\227\154\231\047\244\200\150\107\073
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "NAVER Global Root Certification Authority"
#
# Issuer: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR
# Serial Number:01:94:30:1e:a2:0b:dd:f5:c5:33:2a:b1:43:44:71:f8:d6:50:4d:0d
# Subject: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR
```

Not Valid Before: Fri Aug 18 08:58:42 2017
Not Valid After : Tue Aug 18 23:59:59 2037
Fingerprint (SHA-256):
88:F4:38:DC:F8:FF:D1:FA:8F:42:91:15:FF:E5:F8:2A:E1:E0:6E:0C:70:C3:75:FA:AD:71:7B:34:A4:9E:72:65
Fingerprint (SHA1): 8F:6B:F2:A9:27:4A:DA:14:A0:C4:F4:8E:61:27:F9:C0:1E:78:5D:D1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NAVER Global Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\151\061\013\060\011\006\003\125\004\006\023\002\113\122\061
\046\060\044\006\003\125\004\012\014\035\116\101\126\105\122\040
\102\125\123\111\116\105\123\123\040\120\114\101\124\106\117\122
\115\040\103\157\162\160\056\061\062\060\060\006\003\125\004\003
\014\051\116\101\126\105\122\040\107\154\157\142\141\154\040\122
\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\151\061\013\060\011\006\003\125\004\006\023\002\113\122\061
\046\060\044\006\003\125\004\012\014\035\116\101\126\105\122\040
\102\125\123\111\116\105\123\123\040\120\114\101\124\106\117\122
\115\040\103\157\162\160\056\061\062\060\060\006\003\125\004\003
\014\051\116\101\126\105\122\040\107\154\157\142\141\154\040\122
\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\001\224\060\036\242\013\335\365\305\063\052\261\103\104
\161\370\326\120\115\015
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\242\060\202\003\212\240\003\002\001\002\002\024\001
\224\060\036\242\013\335\365\305\063\052\261\103\104\161\370\326
\120\115\015\060\015\006\011\052\206\110\206\367\015\001\001\014
\005\000\060\151\061\013\060\011\006\003\125\004\006\023\002\113
\122\061\046\060\044\006\003\125\004\012\014\035\116\101\126\105
\122\040\102\125\123\111\116\105\123\123\040\120\114\101\124\106
\117\122\115\040\103\157\162\160\056\061\062\060\060\006\003\125
\004\003\014\051\116\101\126\105\122\040\107\154\157\142\141\154
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\060\036\027
\015\061\067\060\070\061\070\060\070\065\070\064\062\132\027\015
\063\067\060\070\061\070\062\063\065\071\065\071\132\060\151\061
\013\060\011\006\003\125\004\006\023\002\113\122\061\046\060\044

\006\003\125\004\012\014\035\116\101\126\105\122\040\102\125\123
\111\116\105\123\123\040\120\114\101\124\106\117\122\115\040\103
\157\162\160\056\061\062\060\060\006\003\125\004\003\014\051\116
\101\126\105\122\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\060\202\002\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000
\060\202\002\012\002\202\002\001\000\266\324\361\223\134\265\100
\211\012\253\015\220\133\120\143\256\220\224\164\027\105\162\326
\173\145\132\051\113\247\126\240\113\270\057\102\165\351\331\173
\044\132\061\145\253\027\027\321\063\072\331\021\334\100\066\207
\337\307\152\351\046\136\131\212\167\343\350\110\234\061\026\372
\076\221\261\312\311\243\342\237\316\041\123\243\002\066\060\313
\122\002\345\332\062\135\303\305\346\371\356\021\307\213\311\104
\036\204\223\030\112\264\237\345\022\144\151\320\046\205\142\001
\266\311\002\035\276\203\121\273\134\332\370\255\025\152\231\367
\222\124\367\064\133\351\277\352\051\201\022\324\123\221\226\263
\221\132\335\376\220\163\050\373\060\106\265\312\010\007\307\161
\162\311\146\323\064\227\366\214\364\030\112\341\320\075\132\105
\266\151\247\051\373\043\316\210\330\022\234\000\110\250\246\017
\263\073\222\215\161\016\164\305\213\310\114\371\364\233\216\270
\074\151\355\157\073\120\057\130\355\304\260\320\034\033\152\014
\342\274\104\252\330\315\024\135\224\170\141\277\016\156\332\052
\274\057\014\013\161\246\263\026\077\234\346\371\314\237\123\065
\342\003\240\240\030\277\273\361\276\364\326\214\207\015\102\367
\006\271\361\155\355\004\224\250\376\266\323\006\306\100\141\337
\235\235\363\124\166\316\123\072\001\246\222\101\354\004\243\217
\015\242\325\011\312\326\313\232\361\357\103\135\300\253\245\101
\317\134\123\160\160\311\210\246\055\324\153\141\163\120\046\206
\141\016\137\033\302\053\342\214\325\273\235\301\003\102\272\224
\332\137\251\260\312\314\115\012\357\107\151\003\057\042\373\361
\050\316\277\135\120\145\250\220\155\263\164\260\010\307\254\250
\321\353\076\234\374\135\032\203\056\053\313\265\363\104\235\072
\247\027\141\226\242\161\323\160\226\025\115\267\114\163\356\031
\134\305\133\076\101\376\254\165\140\073\033\143\316\000\335\332
\010\220\142\264\345\055\356\110\247\153\027\231\124\276\207\112
\343\251\136\004\114\353\020\155\124\326\357\361\350\362\142\026
\313\200\153\355\075\355\365\037\060\245\256\113\311\023\355\212
\001\001\311\270\121\130\300\146\072\261\146\113\304\325\061\002
\142\351\164\204\014\333\115\106\055\002\003\001\000\001\243\102
\060\100\060\035\006\003\125\035\016\004\026\004\024\322\237\210
\337\241\315\054\275\354\365\073\001\001\223\063\047\262\353\140
\113\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\006\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\015\006\011\052\206\110\206\367\015\001\001\014\005
\000\003\202\002\001\000\062\312\200\263\235\075\124\006\335\322
\322\056\360\244\001\041\013\147\110\312\155\216\340\310\252\015
\252\215\041\127\217\306\076\172\312\333\121\324\122\263\324\226

\204\245\130\140\177\345\013\216\037\365\334\012\025\201\345\073
\266\267\042\057\011\234\023\026\261\154\014\065\010\155\253\143
\162\355\334\276\354\307\127\346\060\040\161\326\327\020\301\023
\125\001\214\052\103\344\101\361\317\072\172\123\222\316\242\003
\005\015\070\337\002\273\020\056\331\073\322\233\172\300\241\246
\370\265\061\346\364\165\311\271\123\231\165\107\042\132\024\025
\307\170\033\266\235\351\014\370\033\166\361\205\204\336\241\332
\022\357\244\342\020\227\172\170\336\014\121\227\250\041\100\213
\206\275\015\360\136\116\113\066\273\073\040\037\212\102\126\341
\013\032\277\173\320\042\103\054\104\214\373\345\052\264\154\034
\034\272\224\340\023\176\041\346\232\302\313\305\102\144\264\036
\224\173\010\045\310\161\314\207\105\127\205\323\237\051\142\042
\203\121\227\000\030\227\167\152\230\222\311\174\140\154\337\154
\175\112\344\160\114\302\236\270\035\367\320\064\307\017\314\373
\247\377\003\276\255\160\220\332\013\335\310\155\227\137\232\177
\011\062\101\375\315\242\314\132\155\114\362\252\111\376\146\370
\351\330\065\353\016\050\036\356\110\057\072\320\171\011\070\174
\246\042\202\223\225\320\003\276\276\002\240\005\335\040\042\343
\157\035\210\064\140\306\346\012\271\011\165\013\360\007\350\151
\226\065\307\373\043\201\216\070\071\270\105\053\103\170\242\321
\054\024\377\015\050\162\162\225\233\136\011\333\211\104\230\252
\241\111\273\161\122\362\277\366\377\047\241\066\257\270\266\167
\210\335\072\244\155\233\064\220\334\024\135\060\277\267\353\027
\344\207\267\161\320\241\327\167\025\324\102\327\362\363\061\231
\135\233\335\026\155\077\352\006\043\370\106\242\042\355\223\366
\335\232\346\052\207\261\230\124\361\042\367\153\105\343\342\216
\166\035\232\215\304\006\215\066\267\024\363\235\124\151\267\216
\074\325\244\155\223\201\267\255\366\275\144\173\302\311\150\071
\240\222\234\315\064\206\221\220\372\144\121\235\376\376\353\245
\365\165\336\211\367\162
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "NAVER Global Root Certification Authority"
Issuer: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR
Serial Number:01:94:30:1e:a2:0b:dd:f5:c5:33:2a:b1:43:44:71:f8:d6:50:4d:0d
Subject: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR
Not Valid Before: Fri Aug 18 08:58:42 2017
Not Valid After : Tue Aug 18 23:59:59 2037
Fingerprint (SHA-256):
88:F4:38:DC:F8:FF:D1:FA:8F:42:91:15:FF:E5:F8:2A:E1:E0:6E:0C:70:C3:75:FA:AD:71:7B:34:A4:9E:72:65
Fingerprint (SHA1): 8F:6B:F2:A9:27:4A:DA:14:A0:C4:F4:8E:61:27:F9:C0:1E:78:5D:D1
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "NAVER Global Root Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\217\153\362\251\047\112\332\024\240\304\364\216\141\047\371\300
\036\170\135\321
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\310\176\101\366\045\073\365\011\263\027\350\106\075\277\320\233
END
CKA_ISSUER MULTILINE_OCTAL
\060\151\061\013\060\011\006\003\125\004\006\023\002\113\122\061
\046\060\044\006\003\125\004\012\014\035\116\101\126\105\122\040
\102\125\123\111\116\105\123\123\040\120\114\101\124\106\117\122
\115\040\103\157\162\160\056\061\062\060\060\006\003\125\004\003
\014\051\116\101\126\105\122\040\107\154\157\142\141\154\040\122
\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\001\224\060\036\242\013\335\365\305\063\052\261\103\104
\161\370\326\120\115\015
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"
#
Issuer: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-
Q2826004J,OU=Ceres,O=FNMT-RCM,C=ES
Serial Number:62:f6:32:6c:e5:c4:e3:68:5c:1b:62:dd:9c:2e:9d:95
Subject: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-
Q2826004J,OU=Ceres,O=FNMT-RCM,C=ES
Not Valid Before: Thu Dec 20 09:37:33 2018
Not Valid After : Sun Dec 20 09:37:33 2043
Fingerprint (SHA-256):
55:41:53:B1:3D:2C:F9:DD:B7:53:BF:BE:1A:4E:0A:E0:8D:0A:A4:18:70:58:FE:60:A2:B8:62:B2:E4:B8:7B:CB
Fingerprint (SHA1): 62:FF:D9:9E:C0:65:0D:03:CE:75:93:D2:ED:3F:2D:32:C9:E3:E5:4A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\170\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122

\103\115\061\016\060\014\006\003\125\004\013\014\005\103\145\162
\145\163\061\030\060\026\006\003\125\004\141\014\017\126\101\124
\105\123\055\121\062\070\062\066\060\060\064\112\061\054\060\052
\006\003\125\004\003\014\043\101\103\040\122\101\111\132\040\106
\116\115\124\055\122\103\115\040\123\105\122\126\111\104\117\122
\105\123\040\123\105\107\125\122\117\123
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\170\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122
\103\115\061\016\060\014\006\003\125\004\013\014\005\103\145\162
\145\163\061\030\060\026\006\003\125\004\141\014\017\126\101\124
\105\123\055\121\062\070\062\066\060\060\064\112\061\054\060\052
\006\003\125\004\003\014\043\101\103\040\122\101\111\132\040\106
\116\115\124\055\122\103\115\040\123\105\122\126\111\104\117\122
\105\123\040\123\105\107\125\122\117\123
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\142\366\062\154\345\304\343\150\134\033\142\335\234\056
\235\225
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\156\060\202\001\363\240\003\002\001\002\002\020\142
\366\062\154\345\304\343\150\134\033\142\335\234\056\235\225\060
\012\006\010\052\206\110\316\075\004\003\003\060\170\061\013\060
\011\006\003\125\004\006\023\002\105\123\061\021\060\017\006\003
\125\004\012\014\010\106\116\115\124\055\122\103\115\061\016\060
\014\006\003\125\004\013\014\005\103\145\162\145\163\061\030\060
\026\006\003\125\004\141\014\017\126\101\124\105\123\055\121\062
\070\062\066\060\060\064\112\061\054\060\052\006\003\125\004\003
\014\043\101\103\040\122\101\111\132\040\106\116\115\124\055\122
\103\115\040\123\105\122\126\111\104\117\122\105\123\040\123\105
\107\125\122\117\123\060\036\027\015\061\070\061\062\062\060\060
\071\063\067\063\063\132\027\015\064\063\061\062\062\060\060\071
\063\067\063\063\132\060\170\061\013\060\011\006\003\125\004\006
\023\002\105\123\061\021\060\017\006\003\125\004\012\014\010\106
\116\115\124\055\122\103\115\061\016\060\014\006\003\125\004\013
\014\005\103\145\162\145\163\061\030\060\026\006\003\125\004\141
\014\017\126\101\124\105\123\055\121\062\070\062\066\060\060\064
\112\061\054\060\052\006\003\125\004\003\014\043\101\103\040\122
\101\111\132\040\106\116\115\124\055\122\103\115\040\123\105\122
\126\111\104\117\122\105\123\040\123\105\107\125\122\117\123\060
\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201
\004\000\042\003\142\000\004\366\272\127\123\310\312\253\337\066
\112\122\041\344\227\322\203\147\236\360\145\121\320\136\207\307
\107\261\131\362\127\107\233\000\002\223\104\027\151\333\102\307
\261\262\072\030\016\264\135\214\263\146\135\241\064\371\066\054

\111\333\363\106\374\263\104\151\104\023\146\375\327\305\375\257
\066\115\316\003\115\007\161\317\257\152\005\322\242\103\132\012
\122\157\001\003\116\216\213\243\102\060\100\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003
\125\035\016\004\026\004\024\001\271\057\357\277\021\206\140\362
\117\320\101\156\253\163\037\347\322\156\111\060\012\006\010\052
\206\110\316\075\004\003\003\003\151\000\060\146\002\061\000\256
\112\343\053\100\303\164\021\362\225\255\026\043\336\116\014\032
\346\135\245\044\136\153\104\173\374\070\342\117\313\234\105\027
\021\114\024\047\046\125\071\165\112\003\314\023\220\237\222\002
\061\000\372\112\154\140\210\163\363\356\270\230\142\251\316\053
\302\331\212\246\160\061\035\257\260\224\114\353\117\306\343\321
\363\142\247\074\377\223\056\007\134\111\001\147\151\022\002\162
\277\347
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"
Issuer: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-
Q2826004J,OU=Ceres,O=FNMT-RCM,C=ES
Serial Number:62:f6:32:6c:e5:c4:e3:68:5c:1b:62:dd:9c:2e:9d:95
Subject: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-
Q2826004J,OU=Ceres,O=FNMT-RCM,C=ES
Not Valid Before: Thu Dec 20 09:37:33 2018
Not Valid After : Sun Dec 20 09:37:33 2043
Fingerprint (SHA-256):
55:41:53:B1:3D:2C:F9:DD:B7:53:BF:BE:1A:4E:0A:E0:8D:0A:A4:18:70:58:FE:60:A2:B8:62:B2:E4:B8:7B:CB
Fingerprint (SHA1): 62:FF:D9:9E:C0:65:0D:03:CE:75:93:D2:ED:3F:2D:32:C9:E3:E5:4A
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\142\377\331\236\300\145\015\003\316\165\223\322\355\077\055\062
\311\343\345\112
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\031\066\234\122\003\057\322\321\273\043\314\335\036\022\125\273
END
CKA_ISSUER MULTILINE_OCTAL
\060\170\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122
\103\115\061\016\060\014\006\003\125\004\013\014\005\103\145\162
\145\163\061\030\060\026\006\003\125\004\141\014\017\126\101\124

\105\123\055\121\062\070\062\066\060\060\064\112\061\054\060\052
\006\003\125\004\003\014\043\101\103\040\122\101\111\132\040\106
\116\115\124\055\122\103\115\040\123\105\122\126\111\104\117\122
\105\123\040\123\105\107\125\122\117\123
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\142\366\062\154\345\304\343\150\134\033\142\335\234\056
\235\225
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "GlobalSign Secure Mail Root R45"
#
Issuer: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
Serial Number:76:53:fe:a8:4c:50:ab:9f:8d:32:b5:1d:03:8f:57:dc
Subject: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
Not Valid Before: Wed Mar 18 00:00:00 2020
Not Valid After : Sat Mar 18 00:00:00 2045
Fingerprint (SHA-256):
31:9A:F0:A7:72:9E:6F:89:26:9C:13:1E:A6:A3:A1:6F:CD:86:38:9F:DC:AB:3C:47:A4:A6:75:C1:61:A3:F9:74
Fingerprint (SHA1): 76:18:D1:F3:80:24:3D:52:40:C6:11:6A:AD:57:77:09:7D:81:30:A0
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Secure Mail Root R45"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
\040\122\064\065
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
\040\122\064\065
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\166\123\376\250\114\120\253\237\215\062\265\035\003\217
\127\334
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\160\060\202\003\130\240\003\002\001\002\002\020\166
\123\376\250\114\120\253\237\215\062\265\035\003\217\127\334\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\122
\061\013\060\011\006\003\125\004\006\023\002\102\105\061\031\060
\027\006\003\125\004\012\023\020\107\154\157\142\141\154\123\151
\147\156\040\156\166\055\163\141\061\050\060\046\006\003\125\004
\003\023\037\107\154\157\142\141\154\123\151\147\156\040\123\145
\143\165\162\145\040\115\141\151\154\040\122\157\157\164\040\122
\064\065\060\036\027\015\062\060\060\063\061\070\060\060\060\060
\060\060\132\027\015\064\065\060\063\061\070\060\060\060\060\060
\060\132\060\122\061\013\060\011\006\003\125\004\006\023\002\102
\105\061\031\060\027\006\003\125\004\012\023\020\107\154\157\142
\141\154\123\151\147\156\040\156\166\055\163\141\061\050\060\046
\006\003\125\004\003\023\037\107\154\157\142\141\154\123\151\147
\156\040\123\145\143\165\162\145\040\115\141\151\154\040\122\157
\157\164\040\122\064\065\060\202\002\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202
\002\012\002\202\002\001\000\334\171\314\155\006\371\155\273\340
\126\004\154\177\340\165\314\055\005\111\350\113\334\124\354\133
\167\225\162\277\177\142\235\205\251\212\044\120\137\123\345\333
\164\157\244\051\133\023\052\011\255\232\305\057\302\367\166\073
\241\105\106\252\103\346\044\376\053\260\157\062\160\031\106\132
\171\046\057\374\075\175\137\144\313\127\314\141\141\250\331\225
\156\343\225\240\156\177\107\022\030\326\357\003\311\373\212\372
\232\275\202\025\251\125\167\113\021\117\131\340\153\303\161\363
\014\330\124\325\201\150\076\023\271\025\056\207\212\074\104\047
\066\142\044\156\370\054\005\162\060\141\275\102\221\043\304\235
\045\247\331\124\232\024\243\061\255\200\171\014\247\143\154\230
\243\254\127\107\063\037\145\226\341\320\322\065\332\371\161\367
\241\246\045\265\101\135\337\076\140\330\321\366\237\245\362\270
\314\023\252\217\371\262\156\341\203\055\223\335\076\205\032\335
\350\261\134\046\001\313\111\205\374\374\322\324\177\205\142\206
\164\371\313\354\065\042\242\014\060\217\073\253\171\353\126\362
\372\102\363\355\371\037\105\211\100\051\255\352\222\164\352\122
\375\126\264\053\332\242\355\165\302\156\253\316\122\220\113\366
\336\360\111\217\232\110\324\210\031\155\105\346\314\214\271\335
\144\140\140\002\100\370\271\317\274\130\353\075\205\271\306\012
\323\234\007\146\217\307\030\071\043\106\341\074\036\243\057\120
\141\222\013\075\053\154\361\243\107\070\127\221\253\015\217\306
\235\115\004\322\046\122\134\345\245\375\052\055\026\052\001\151
\347\251\175\341\066\267\261\052\305\331\261\215\275\271\213\316
\314\213\241\076\013\110\315\120\225\064\304\330\010\131\330\153
\046\364\276\365\324\042\027\000\127\311\256\233\004\060\063\237

\013\373\337\126\242\311\156\124\166\332\261\227\142\047\131\017
\021\212\042\033\144\226\077\250\361\267\044\112\215\074\123\174
\155\203\166\075\262\046\110\163\365\104\026\001\055\011\052\216
\026\226\120\320\163\006\135\273\042\110\202\114\012\106\132\077
\200\377\134\362\362\232\254\054\010\340\326\352\360\022\070\201
\117\246\020\355\106\253\314\026\234\013\317\144\246\231\002\205
\104\147\106\255\375\115\347\002\003\001\000\001\243\102\060\100
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\206
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\035\006\003\125\035\016\004\026\004\024\240\223\025\050
\156\356\217\010\262\065\306\236\142\171\164\247\261\016\053\173
\060\015\006\011\052\206\110\206\367\015\001\001\014\005\000\003
\202\002\001\000\105\012\370\321\134\254\142\201\320\004\327\266
\377\127\121\211\013\014\313\336\044\145\067\373\253\236\355\146
\364\352\014\031\151\211\270\031\261\060\126\264\331\366\367\276
\306\256\227\313\105\366\021\214\072\060\144\114\301\237\131\300
\106\102\010\006\107\144\027\170\340\225\007\006\326\214\242\254
\251\331\077\323\173\126\117\374\304\207\050\337\266\053\026\043
\300\237\037\133\343\326\104\136\042\117\043\004\214\065\026\265
\171\007\206\134\057\227\342\366\010\144\246\334\333\250\212\343
\244\173\167\015\321\051\223\050\040\264\123\243\113\116\137\336
\301\366\165\043\374\037\074\170\117\160\061\170\057\242\065\124
\161\004\254\310\304\155\303\366\221\261\376\315\356\104\156\201
\366\100\305\076\052\001\277\253\114\261\003\077\015\021\344\017
\322\044\343\042\210\233\237\137\107\075\121\111\340\011\067\176
\027\041\061\166\267\147\161\110\050\113\045\327\020\350\237\141
\131\026\305\076\062\116\037\014\316\243\314\017\344\307\021\007
\042\057\070\010\335\133\227\353\102\154\131\232\232\356\172\320
\235\337\305\333\011\103\056\012\252\031\075\153\350\152\060\172
\127\346\277\263\152\071\251\217\343\361\117\145\150\266\275\237
\050\217\241\026\132\011\120\072\062\056\035\057\104\021\102\246
\000\346\061\230\377\055\241\017\346\244\140\126\317\171\327\262
\116\327\260\372\156\014\127\043\307\316\037\245\261\114\155\031
\111\236\016\177\160\217\161\077\130\050\237\165\335\141\340\072
\267\071\266\356\227\324\065\121\373\213\111\140\310\074\146\256
\227\356\215\046\131\127\273\170\360\172\120\060\011\260\140\252
\237\116\334\311\076\036\072\334\142\223\063\260\072\124\164\157
\054\061\105\321\153\021\062\152\150\166\366\075\366\152\023\136
\044\230\347\352\035\232\317\170\202\007\140\367\115\020\323\201
\232\105\215\236\257\233\334\200\307\103\262\225\150\244\303\016
\350\012\107\025\277\124\063\334\001\347\325\246\036\163\330\172
\262\277\057\255\343\125\060\236\337\016\101\274\340\021\365\241
\014\250\042\341\343\000\243\116\160\174\222\343\004\321\172\102
\212\165\220\131\343\233\321\114\242\144\275\163\171\233\157\362
\263\301\366\074
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GlobalSign Secure Mail Root R45"
# Issuer: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
# Serial Number:76:53:fe:a8:4c:50:ab:9f:8d:32:b5:1d:03:8f:57:dc
# Subject: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 18 00:00:00 2020
# Not Valid After : Sat Mar 18 00:00:00 2045
# Fingerprint (SHA-256):
31:9A:F0:A7:72:9E:6F:89:26:9C:13:1E:A6:A3:A1:6F:CD:86:38:9F:DC:AB:3C:47:A4:A6:75:C1:61:A3:F9:74
# Fingerprint (SHA1): 76:18:D1:F3:80:24:3D:52:40:C6:11:6A:AD:57:77:09:7D:81:30:A0
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Secure Mail Root R45"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\166\030\321\363\200\044\075\122\100\306\021\152\255\127\167\011
\175\201\060\240
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\223\304\173\263\016\124\107\034\103\054\213\276\160\205\142\051
END
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
\040\122\064\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\166\123\376\250\114\120\253\237\215\062\265\035\003\217
\127\334
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "GlobalSign Secure Mail Root E45"
#
# Issuer: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
# Serial Number:76:53:fe:aa:27:1d:95:46:5d:d6:f1:9e:e5:b8:90:0a
# Subject: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 18 00:00:00 2020
# Not Valid After : Sat Mar 18 00:00:00 2045
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# Fingerprint (SHA-256):
5C:BF:6F:B8:1F:D4:17:EA:41:28:CD:6F:81:72:A3:C9:40:20:94:F7:4A:B2:ED:3A:06:B4:40:5D:04:F3:0B:19
# Fingerprint (SHA1): 18:2E:1F:32:4F:89:DF:BE:FE:88:89:F0:93:C2:C4:A0:2B:67:75:21
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Secure Mail Root E45"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
\040\105\064\065
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
\040\105\064\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\166\123\376\252\047\035\225\106\135\326\361\236\345\270
\220\012
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\041\060\202\001\247\240\003\002\001\002\002\020\166
\123\376\252\047\035\225\106\135\326\361\236\345\270\220\012\060
\012\006\010\052\206\110\316\075\004\003\003\060\122\061\013\060
\011\006\003\125\004\006\023\002\102\105\061\031\060\027\006\003
\125\004\012\023\020\107\154\157\142\141\154\123\151\147\156\040
\156\166\055\163\141\061\050\060\046\006\003\125\004\003\023\037
\107\154\157\142\141\154\123\151\147\156\040\123\145\143\165\162
\145\040\115\141\151\154\040\122\157\157\164\040\105\064\065\060
\036\027\015\062\060\060\063\061\070\060\060\060\060\060\060\132
\027\015\064\065\060\063\061\070\060\060\060\060\060\060\132\060
\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061\031
\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154\123
\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003\125
\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040\123
\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164\040
\105\064\065\060\166\060\020\006\007\052\206\110\316\075\002\001
\006\005\053\201\004\000\042\003\142\000\004\371\171\213\201\107
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\067\211\226\077\105\111\120\177\032\046\013\223\062\176\056\300
\300\247\010\232\303\156\217\233\076\013\042\354\067\123\267\157
\212\260\274\047\067\113\155\251\106\073\331\037\377\245\241\104
\273\055\163\277\236\101\007\134\123\233\121\010\072\132\273\157
\070\307\026\221\170\302\112\023\151\035\202\337\132\057\000\210
\226\242\056\034\164\371\235\176\146\067\212\243\102\060\100\060
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\035\006\003\125\035\016\004\026\004\024\337\023\136\213\137
\302\100\002\375\126\267\224\114\266\036\325\246\261\024\226\060
\012\006\010\052\206\110\316\075\004\003\003\003\150\000\060\145
\002\060\023\260\276\327\161\040\076\344\253\234\316\066\022\175
\137\114\037\052\265\151\105\063\137\323\055\132\262\344\210\307
\336\012\066\102\062\171\235\246\153\272\341\371\104\052\173\212
\303\022\002\061\000\240\146\034\116\207\235\207\311\355\231\114
\033\012\356\055\140\303\067\307\035\315\265\162\260\331\306\357
\274\362\377\077\360\122\335\010\347\252\144\171\303\344\151\127
\221\057\244\313\174
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "GlobalSign Secure Mail Root E45"
Issuer: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
Serial Number:76:53:fe:aa:27:1d:95:46:5d:d6:f1:9e:e5:b8:90:0a
Subject: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
Not Valid Before: Wed Mar 18 00:00:00 2020
Not Valid After : Sat Mar 18 00:00:00 2045
Fingerprint (SHA-256):
5C:BF:6F:B8:1F:D4:17:EA:41:28:CD:6F:81:72:A3:C9:40:20:94:F7:4A:B2:ED:3A:06:B4:40:5D:04:F3:0B:19
Fingerprint (SHA1): 18:2E:1F:32:4F:89:DF:BE:FE:88:89:F0:93:C2:C4:A0:2B:67:75:21
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Secure Mail Root E45"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\030\056\037\062\117\211\337\276\376\210\211\360\223\302\304\240
\053\147\165\041
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\305\374\306\056\237\364\122\055\052\250\244\272\373\147\062\377
END
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003

\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
\040\105\064\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\166\123\376\252\047\035\225\106\135\326\361\236\345\270
\220\012
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "GlobalSign Root R46"
#
Issuer: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE
Serial Number:11:d2:bb:b9:d7:23:18:9e:40:5f:0a:9d:2d:d0:df:25:67:d1
Subject: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE
Not Valid Before: Wed Mar 20 00:00:00 2019
Not Valid After : Tue Mar 20 00:00:00 2046
Fingerprint (SHA-256):
4F:A3:12:6D:8D:3A:11:D1:C4:85:5A:4F:80:7C:BA:D6:CF:91:9D:3A:5A:88:B0:3B:EA:2C:63:72:D9:3C:40:C9
Fingerprint (SHA1): 53:A2:B0:4B:CA:6B:D6:45:E6:39:8A:8E:C4:0D:D2:BF:77:C3:A2:90
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root R46"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040
\122\157\157\164\040\122\064\066
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040
\122\157\157\164\040\122\064\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\322\273\271\327\043\030\236\100\137\012\235\055\320
\337\045\147\321

END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\132\060\202\003\102\240\003\002\001\002\002\022\021
\322\273\271\327\043\030\236\100\137\012\235\055\320\337\045\147
\321\060\015\006\011\052\206\110\206\367\015\001\001\014\005\000
\060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040
\122\157\157\164\040\122\064\066\060\036\027\015\061\071\060\063
\062\060\060\060\060\060\060\060\132\027\015\064\066\060\063\062
\060\060\060\060\060\060\060\060\132\060\106\061\013\060\011\006\003
\125\004\006\023\002\102\105\061\031\060\027\006\003\125\004\012
\023\020\107\154\157\142\141\154\123\151\147\156\040\156\166\055
\163\141\061\034\060\032\006\003\125\004\003\023\023\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\122\064\066
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001
\000\254\254\164\062\350\263\145\345\272\355\103\046\035\246\211
\015\105\272\051\210\262\244\035\143\335\323\301\054\011\127\211
\071\241\125\351\147\064\167\014\156\344\125\035\122\045\322\023
\153\136\341\035\251\267\175\211\062\137\015\236\237\054\172\143
\140\100\037\246\260\266\170\217\231\124\226\010\130\256\344\006
\274\142\005\002\026\277\257\250\043\003\266\224\017\274\156\154
\302\313\325\246\273\014\351\366\301\002\373\041\336\146\335\027
\253\164\102\357\360\164\057\045\364\352\153\125\133\220\333\235
\337\136\207\012\100\373\255\031\153\373\367\312\140\210\336\332
\301\217\326\256\325\177\324\074\203\356\327\026\114\203\105\063
\153\047\320\206\320\034\055\153\363\253\175\361\205\251\365\050
\322\255\357\363\204\113\034\207\374\023\243\072\162\242\132\021
\053\326\047\161\047\355\201\055\155\146\201\222\207\264\033\130
\172\314\077\012\372\106\117\115\170\134\370\053\110\343\004\204
\313\135\366\264\152\263\145\374\102\236\121\046\043\040\313\075
\024\371\201\355\145\026\000\117\032\144\227\146\010\317\214\173
\343\053\300\235\371\024\362\033\361\126\152\026\277\054\205\205
\315\170\070\232\353\102\152\002\064\030\203\027\116\224\126\370
\266\202\265\363\226\335\075\363\276\177\040\167\076\173\031\043
\153\054\324\162\163\103\127\175\340\370\327\151\117\027\066\004
\371\300\220\140\067\105\336\346\014\330\164\215\256\234\242\155
\164\135\102\276\006\365\331\144\156\002\020\254\211\260\114\073
\007\115\100\176\044\305\212\230\202\171\216\244\247\202\040\215
\043\372\047\161\311\337\306\101\164\240\115\366\221\026\334\106
\214\137\051\143\061\131\161\014\330\157\302\266\062\175\373\346
\135\123\246\176\025\374\273\165\174\135\354\370\366\027\034\354
\307\153\031\313\363\173\360\053\007\245\331\154\171\124\166\154
\235\034\246\156\016\351\171\014\250\043\152\243\337\033\060\061
\237\261\124\173\376\152\313\146\252\334\145\320\242\236\112\232
\007\041\153\201\217\333\304\131\372\336\042\300\004\234\343\252

\133\066\223\350\075\275\172\241\235\013\166\261\013\307\235\375
\317\230\250\006\302\370\052\243\241\203\240\267\045\162\245\002
\343\002\003\001\000\001\243\102\060\100\060\016\006\003\125\035
\017\001\001\377\004\004\003\002\001\206\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125
\035\016\004\026\004\024\003\134\253\163\201\207\250\314\260\246
\325\224\342\066\226\111\377\005\231\054\060\015\006\011\052\206
\110\206\367\015\001\001\014\005\000\003\202\002\001\000\174\170
\354\366\002\054\273\133\176\222\053\135\071\334\276\330\035\242
\102\063\115\371\357\244\052\073\104\151\036\254\331\105\243\116
\074\247\330\044\121\262\124\034\223\116\304\357\173\223\205\140
\046\352\011\110\340\365\273\307\351\150\322\273\152\061\161\314
\171\256\021\250\360\231\375\345\037\274\057\250\314\127\353\166
\304\041\246\107\123\125\115\150\277\005\244\356\327\046\253\142
\332\103\067\113\342\306\265\345\262\203\031\072\307\323\333\115
\236\010\172\363\356\317\076\142\373\254\350\140\314\321\307\241
\134\203\105\304\105\314\363\027\153\024\311\004\002\076\322\044
\246\171\351\036\316\242\347\301\131\025\237\035\342\113\232\076
\237\166\010\055\153\330\272\127\024\332\203\352\376\214\125\351
\320\116\251\314\167\061\261\104\021\172\134\261\076\323\024\105
\025\030\142\044\023\322\313\115\316\134\203\301\066\362\020\265
\016\210\155\270\341\126\237\211\336\226\146\071\107\144\054\156
\115\256\142\173\277\140\164\031\270\126\254\222\254\026\062\355
\255\150\125\376\230\272\323\064\336\364\311\141\303\016\206\366
\113\204\140\356\015\173\265\062\130\171\221\125\054\201\103\263
\164\037\172\252\045\236\035\327\241\213\271\315\102\056\004\244
\146\203\115\211\065\266\154\250\066\112\171\041\170\042\320\102
\274\321\100\061\220\241\276\004\317\312\147\355\365\360\200\323
\140\311\203\052\042\005\320\007\073\122\277\014\236\252\053\371
\273\346\037\217\045\272\205\215\027\036\002\376\135\120\004\127
\317\376\055\274\357\134\300\032\253\266\237\044\306\337\163\150
\110\220\054\024\364\077\122\032\344\322\313\024\303\141\151\317
\342\371\030\305\272\063\237\024\243\004\135\271\161\367\265\224
\330\366\063\301\132\301\064\213\174\233\335\223\072\347\023\242
\160\141\237\257\217\353\330\305\165\370\063\146\324\164\147\072
\067\167\234\347\335\244\017\166\103\146\212\103\362\237\373\014
\102\170\143\321\342\017\157\173\324\241\075\164\227\205\267\110
\071\101\326\040\374\320\072\263\372\350\157\304\212\272\161\067
\276\213\227\261\170\061\117\263\347\266\003\023\316\124\235\256
\045\131\314\177\065\137\010\367\100\105\061\170\052\172
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "GlobalSign Root R46"
Issuer: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE
Serial Number:11:d2:bb:b9:d7:23:18:9e:40:5f:0a:9d:2d:d0:df:25:67:d1

```
# Subject: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 20 00:00:00 2019
# Not Valid After : Tue Mar 20 00:00:00 2046
# Fingerprint (SHA-256):
4F:A3:12:6D:8D:3A:11:D1:C4:85:5A:4F:80:7C:BA:D6:CF:91:9D:3A:5A:88:B0:3B:EA:2C:63:72:D9:3C:40:C9
# Fingerprint (SHA1): 53:A2:B0:4B:CA:6B:D6:45:E6:39:8A:8E:C4:0D:D2:BF:77:C3:A2:90
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root R46"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\123\242\260\113\312\153\326\105\346\071\212\216\304\015\322\277
\167\303\242\220
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\304\024\060\344\372\146\103\224\052\152\033\044\137\031\320\357
END
CKA_ISSUER MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040
\122\157\157\164\040\122\064\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\322\273\271\327\043\030\236\100\137\012\235\055\320
\337\045\147\321
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "GlobalSign Root E46"
#
# Issuer: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
# Serial Number:11:d2:bb:ba:33:6e:d4:bc:e6:24:68:c5:0d:84:1d:98:e8:43
# Subject: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 20 00:00:00 2019
# Not Valid After : Tue Mar 20 00:00:00 2046
# Fingerprint (SHA-256):
CB:B9:C4:4D:84:B8:04:3E:10:50:EA:31:A6:9F:51:49:55:D7:BF:D2:E2:C6:B4:93:01:01:9A:D6:1D:9F:50:58
# Fingerprint (SHA1): 39:B4:6C:D5:FE:80:06:EB:E2:2F:4A:BB:08:33:A0:AF:DB:B9:DD:84
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
```

CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root E46"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040
\122\157\157\164\040\105\064\066
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040
\122\157\157\164\040\105\064\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\322\273\272\063\156\324\274\346\044\150\305\015\204
\035\230\350\103
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\013\060\202\001\221\240\003\002\001\002\002\022\021
\322\273\272\063\156\324\274\346\044\150\305\015\204\035\230\350
\103\060\012\006\010\052\206\110\316\075\004\003\003\060\106\061
\013\060\011\006\003\125\004\006\023\002\102\105\061\031\060\027
\006\003\125\004\012\023\020\107\154\157\142\141\154\123\151\147
\156\040\156\166\055\163\141\061\034\060\032\006\003\125\004\003
\023\023\107\154\157\142\141\154\123\151\147\156\040\122\157\157
\164\040\105\064\066\060\036\027\015\061\071\060\063\062\060\060
\060\060\060\060\060\132\027\015\064\066\060\063\062\060\060\060
\060\060\060\060\132\060\106\061\013\060\011\006\003\125\004\006
\023\002\102\105\061\031\060\027\006\003\125\004\012\023\020\107
\154\157\142\141\154\123\151\147\156\040\156\166\055\163\141\061
\034\060\032\006\003\125\004\003\023\023\107\154\157\142\141\154
\123\151\147\156\040\122\157\157\164\040\105\064\066\060\166\060
\020\006\007\052\206\110\316\075\002\001\006\005\053\201\004\000
\042\003\142\000\004\234\016\261\317\267\350\236\122\167\165\064
\372\245\106\247\255\062\031\062\264\007\251\047\312\224\273\014
\322\012\020\307\332\211\260\227\014\160\023\011\001\216\330\352
\107\352\276\262\200\053\315\374\050\015\333\254\274\244\206\067
\355\160\010\000\165\352\223\013\173\056\122\234\043\150\043\006
\103\354\222\057\123\204\333\373\107\024\007\350\137\224\147\135
\311\172\201\074\040\243\102\060\100\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\001\206\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035
\016\004\026\004\024\061\012\220\217\266\306\235\322\104\113\200

\265\242\346\037\261\022\117\033\225\060\012\006\010\052\206\110
\316\075\004\003\003\003\150\000\060\145\002\061\000\337\124\220
\355\233\357\213\224\002\223\027\202\231\276\263\236\054\366\013
\221\214\237\112\024\261\366\144\274\273\150\121\023\014\003\367
\025\213\204\140\271\213\377\122\216\347\214\274\034\002\060\074
\371\021\324\214\116\300\301\141\302\025\114\252\253\035\013\061
\137\073\034\342\000\227\104\061\346\376\163\226\057\332\226\323
\376\010\007\263\064\211\274\005\237\367\036\206\356\213\160
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "GlobalSign Root E46"
Issuer: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
Serial Number:11:d2:bb:ba:33:6e:d4:bc:e6:24:68:c5:0d:84:1d:98:e8:43
Subject: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
Not Valid Before: Wed Mar 20 00:00:00 2019
Not Valid After : Tue Mar 20 00:00:00 2046
Fingerprint (SHA-256):
CB:B9:C4:4D:84:B8:04:3E:10:50:EA:31:A6:9F:51:49:55:D7:BF:D2:E2:C6:B4:93:01:01:9A:D6:1D:9F:50:58
Fingerprint (SHA1): 39:B4:6C:D5:FE:80:06:EB:E2:2F:4A:BB:08:33:A0:AF:DB:B9:DD:84
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root E46"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\071\264\154\325\376\200\006\353\342\057\112\273\010\063\240\257
\333\271\335\204
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\265\270\146\355\336\010\203\343\311\342\001\064\006\254\121\157
END
CKA_ISSUER MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040
\122\157\157\164\040\105\064\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\322\273\272\063\156\324\274\346\044\150\305\015\204
\035\230\350\103
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "GLOBALTRUST 2020"
#
Issuer: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
Serial Number:5a:4b:bd:5a:fb:4f:8a:5b:fa:65:e5
Subject: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
Not Valid Before: Mon Feb 10 00:00:00 2020
Not Valid After : Sun Jun 10 00:00:00 2040
Fingerprint (SHA-256):
9A:29:6A:51:82:D1:D4:51:A2:E3:7F:43:9B:74:DA:AF:A2:67:52:33:29:F9:0F:9A:0D:20:07:C3:34:E2:3C:9A
Fingerprint (SHA1): D0:67:C1:13:51:01:0C:AA:D0:C7:6A:65:37:31:16:26:4F:53:71:A2
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GLOBALTRUST 2020"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\101\124\061
\043\060\041\006\003\125\004\012\023\032\145\055\143\157\155\155
\145\162\143\145\040\155\157\156\151\164\157\162\151\156\147\040
\107\155\142\110\061\031\060\027\006\003\125\004\003\023\020\107
\114\117\102\101\114\124\122\125\123\124\040\062\060\062\060
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\101\124\061
\043\060\041\006\003\125\004\012\023\032\145\055\143\157\155\155
\145\162\143\145\040\155\157\156\151\164\157\162\151\156\147\040
\107\155\142\110\061\031\060\027\006\003\125\004\003\023\020\107
\114\117\102\101\114\124\122\125\123\124\040\062\060\062\060
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\132\113\275\132\373\117\212\133\372\145\345
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\202\060\202\003\152\240\003\002\001\002\002\013\132
\113\275\132\373\117\212\133\372\145\345\060\015\006\011\052\206
\110\206\367\015\001\001\013\005\000\060\115\061\013\060\011\006
\003\125\004\006\023\002\101\124\061\043\060\041\006\003\125\004
\012\023\032\145\055\143\157\155\155\145\162\143\145\040\155\157
\156\151\164\157\162\151\156\147\040\107\155\142\110\061\031\060
\027\006\003\125\004\003\023\020\107\114\117\102\101\114\124\122
\125\123\124\040\062\060\062\060\060\036\027\015\062\060\060\062
\061\060\060\060\060\060\060\060\132\027\015\064\060\060\066\061
\060\060\060\060\060\060\060\132\060\115\061\013\060\011\006\003

\125\004\006\023\002\101\124\061\043\060\041\006\003\125\004\012
\023\032\145\055\143\157\155\155\145\162\143\145\040\155\157\156
\151\164\157\162\151\156\147\040\107\155\142\110\061\031\060\027
\006\003\125\004\003\023\020\107\114\117\102\101\114\124\122\125
\123\124\040\062\060\062\060\060\202\002\042\060\015\006\011\052
\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060
\202\002\012\002\202\002\001\000\256\056\126\255\033\034\357\366
\225\217\240\167\033\053\323\143\217\204\115\105\242\017\237\133
\105\253\131\173\121\064\371\354\213\212\170\305\335\153\257\275
\304\337\223\105\036\277\221\070\013\256\016\026\347\101\163\370
\333\273\321\270\121\340\313\203\073\163\070\156\167\212\017\131
\143\046\315\247\052\316\124\373\270\342\300\174\107\316\140\174
\077\262\163\362\300\031\266\212\222\207\065\015\220\050\242\344
\025\004\143\076\272\257\356\174\136\314\246\213\120\262\070\367
\101\143\312\316\377\151\217\150\016\225\066\345\314\271\214\011
\312\113\335\061\220\226\310\314\037\375\126\226\064\333\216\034
\352\054\276\205\056\143\335\252\251\225\323\375\051\225\023\360
\310\230\223\331\055\026\107\220\021\203\242\072\042\242\050\127
\242\353\376\300\214\050\240\246\175\347\052\102\073\202\200\143
\245\143\037\031\314\174\262\146\250\302\323\155\067\157\342\176
\006\121\331\105\204\037\022\316\044\122\144\205\013\110\200\116
\207\261\042\042\060\252\353\256\276\340\002\340\100\350\260\102
\200\003\121\252\264\176\252\104\327\103\141\363\242\153\026\211
\111\244\243\244\053\212\002\304\170\364\150\212\301\344\172\066
\261\157\033\226\033\167\111\215\324\311\006\162\217\317\123\343
\334\027\205\040\112\334\230\047\323\221\046\053\107\036\151\007
\257\336\242\344\344\324\153\013\263\136\174\324\044\200\107\051
\151\073\156\350\254\375\100\353\330\355\161\161\053\362\350\130
\035\353\101\227\042\305\037\324\071\320\047\217\207\343\030\364
\340\251\106\015\365\164\072\202\056\320\156\054\221\243\061\134
\073\106\352\173\004\020\126\136\200\035\365\245\145\350\202\374
\342\007\214\142\105\365\040\336\106\160\206\241\274\223\323\036
\164\246\154\260\054\367\003\014\210\014\313\324\162\123\206\274
\140\106\363\230\152\302\361\277\103\371\160\040\167\312\067\101
\171\125\122\143\215\133\022\237\305\150\304\210\235\254\362\060
\253\267\243\061\227\147\255\217\027\017\154\307\163\355\044\224
\153\310\203\232\320\232\067\111\004\253\261\026\310\154\111\111
\055\253\241\320\214\222\362\101\112\171\041\045\333\143\327\266
\234\247\176\102\151\373\072\143\002\003\001\000\001\243\143\060
\141\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\006\060\035\006\003\125\035\016\004\026\004\024\334\056\037
\321\141\067\171\344\253\325\325\263\022\161\150\075\152\150\234
\042\060\037\006\003\125\035\043\004\030\060\026\200\024\334\056
\037\321\141\067\171\344\253\325\325\263\022\161\150\075\152\150
\234\042\060\015\006\011\052\206\110\206\367\015\001\001\013\005
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\126\226\022\020\206\126\272\227\162\322\124\060\174\255\031\325
\035\150\157\373\024\102\330\215\016\363\265\321\245\343\002\102
\136\334\350\106\130\007\065\002\060\340\274\164\112\301\103\052
\377\333\032\320\260\257\154\303\375\313\263\365\177\155\003\056
\131\126\235\055\055\065\214\262\326\103\027\054\222\012\313\135
\350\214\017\113\160\103\320\202\377\250\314\277\244\224\300\276
\207\275\212\343\223\173\306\217\233\026\235\047\145\274\172\305
\102\202\154\134\007\320\251\301\210\140\104\351\230\205\026\137
\370\217\312\001\020\316\045\303\371\140\033\240\305\227\303\323
\054\210\061\242\275\060\354\320\320\300\022\361\301\071\343\345
\365\370\326\112\335\064\315\373\157\301\117\343\000\213\126\342
\222\367\050\262\102\167\162\043\147\307\077\021\025\262\304\003
\005\276\273\021\173\012\277\250\156\347\377\130\103\317\233\147
\240\200\007\266\035\312\255\155\352\101\021\176\055\164\223\373
\302\274\276\121\104\305\357\150\045\047\200\343\310\240\324\022
\354\331\245\067\035\067\174\264\221\312\332\324\261\226\201\357
\150\134\166\020\111\257\176\245\067\200\261\034\122\275\063\201
\114\217\371\335\145\331\024\315\212\045\130\364\342\305\203\245
\011\220\324\154\024\143\265\100\337\353\300\374\304\130\176\015
\024\026\207\124\047\156\126\344\160\204\270\154\062\022\176\202
\061\103\276\327\335\174\241\255\256\326\253\040\022\357\012\303
\020\214\111\226\065\334\013\165\136\261\117\325\117\064\016\021
\040\007\165\103\105\351\243\021\332\254\243\231\302\266\171\047
\342\271\357\310\342\366\065\051\172\164\372\305\177\202\005\142
\246\012\352\150\262\171\107\006\156\362\127\250\025\063\306\367
\170\112\075\102\173\153\176\376\367\106\352\321\353\216\357\210
\150\133\350\301\331\161\176\375\144\357\377\147\107\210\130\045
\057\076\206\007\275\373\250\345\202\250\254\245\323\151\103\315
\061\210\111\204\123\222\300\261\071\033\071\203\001\060\304\362
\251\372\320\003\275\162\067\140\126\037\066\174\275\071\221\365
\155\015\277\173\327\222
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "GLOBALTRUST 2020"
Issuer: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
Serial Number:5a:4b:bd:5a:fb:4f:8a:5b:fa:65:e5
Subject: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
Not Valid Before: Mon Feb 10 00:00:00 2020
Not Valid After : Sun Jun 10 00:00:00 2040
Fingerprint (SHA-256):
9A:29:6A:51:82:D1:D4:51:A2:E3:7F:43:9B:74:DA:AF:A2:67:52:33:29:F9:0F:9A:0D:20:07:C3:34:E2:3C:9A
Fingerprint (SHA1): D0:67:C1:13:51:01:0C:AA:D0:C7:6A:65:37:31:16:26:4F:53:71:A2
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GLOBALTRUST 2020"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\320\147\301\023\121\001\014\252\320\307\152\145\067\061\026\046
\117\123\161\242
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\212\307\157\313\155\343\314\242\361\174\203\372\016\170\327\350
END
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\101\124\061
\043\060\041\006\003\125\004\012\023\032\145\055\143\157\155\155
\145\162\143\145\040\155\157\156\151\164\157\162\151\156\147\040
\107\155\142\110\061\031\060\027\006\003\125\004\003\023\020\107
\114\117\102\101\114\124\122\125\123\124\040\062\060\062\060
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\132\113\275\132\373\117\212\133\372\145\345
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "ANF Secure Server Root CA"
#
Issuer: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de
Certificacion,C=ES,serialNumber=G63287510
Serial Number:0d:d3:e3:bc:6c:f9:6b:b1
Subject: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de
Certificacion,C=ES,serialNumber=G63287510
Not Valid Before: Wed Sep 04 10:00:38 2019
Not Valid After : Tue Aug 30 10:00:38 2039
Fingerprint (SHA-256):
FB:8F:EC:75:91:69:B9:10:6B:1E:51:16:44:C6:18:C5:13:04:37:3F:6C:06:43:08:8D:8B:EF:FD:1B:99:75:99
Fingerprint (SHA1): 5B:6E:68:D0:CC:15:B6:A0:5F:1E:C1:5F:AE:02:FC:6B:2F:5D:6F:74
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANF Secure Server Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\204\061\022\060\020\006\003\125\004\005\023\011\107\066
\063\062\070\067\065\061\060\061\013\060\011\006\003\125\004\006
\023\002\105\123\061\047\060\045\006\003\125\004\012\023\036\101
\116\106\040\101\165\164\157\162\151\144\141\144\040\144\145\040

\103\145\162\164\151\146\151\143\141\143\151\157\156\061\024\060
\022\006\003\125\004\013\023\013\101\116\106\040\103\101\040\122
\141\151\172\061\042\060\040\006\003\125\004\003\023\031\101\116
\106\040\123\145\143\165\162\145\040\123\145\162\166\145\162\040
\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\204\061\022\060\020\006\003\125\004\005\023\011\107\066
\063\062\070\067\065\061\060\061\013\060\011\006\003\125\004\006
\023\002\105\123\061\047\060\045\006\003\125\004\012\023\036\101
\116\106\040\101\165\164\157\162\151\144\141\144\040\144\145\040
\103\145\162\164\151\146\151\143\141\143\151\157\156\061\024\060
\022\006\003\125\004\013\023\013\101\116\106\040\103\101\040\122
\141\151\172\061\042\060\040\006\003\125\004\003\023\031\101\116
\106\040\123\145\143\165\162\145\040\123\145\162\166\145\162\040
\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\015\323\343\274\154\371\153\261
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\357\060\202\003\327\240\003\002\001\002\002\010\015
\323\343\274\154\371\153\261\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\201\204\061\022\060\020\006\003\125
\004\005\023\011\107\066\063\062\070\067\065\061\060\061\013\060
\011\006\003\125\004\006\023\002\105\123\061\047\060\045\006\003
\125\004\012\023\036\101\116\106\040\101\165\164\157\162\151\144
\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141\143
\151\157\156\061\024\060\022\006\003\125\004\013\023\013\101\116
\106\040\103\101\040\122\141\151\172\061\042\060\040\006\003\125
\004\003\023\031\101\116\106\040\123\145\143\165\162\145\040\123
\145\162\166\145\162\040\122\157\157\164\040\103\101\060\036\027
\015\061\071\060\071\060\064\061\060\060\060\063\070\132\027\015
\063\071\060\070\063\060\061\060\060\060\063\070\132\060\201\204
\061\022\060\020\006\003\125\004\005\023\011\107\066\063\062\070
\067\065\061\060\061\013\060\011\006\003\125\004\006\023\002\105
\123\061\047\060\045\006\003\125\004\012\023\036\101\116\106\040
\101\165\164\157\162\151\144\141\144\040\144\145\040\103\145\162
\164\151\146\151\143\141\143\151\157\156\061\024\060\022\006\003
\125\004\013\023\013\101\116\106\040\103\101\040\122\141\151\172
\061\042\060\040\006\003\125\004\003\023\031\101\116\106\040\123
\145\143\165\162\145\040\123\145\162\166\145\162\040\122\157\157
\164\040\103\101\060\202\002\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012
\002\202\002\001\000\333\353\153\053\346\144\124\225\202\220\243
\162\244\031\001\235\234\013\201\137\163\111\272\247\254\363\004
\116\173\226\013\354\021\340\133\246\034\316\033\322\015\203\034

\053\270\236\035\176\105\062\140\017\007\351\167\130\176\237\152
\310\141\116\266\046\301\114\215\377\114\357\064\262\037\145\330
\271\170\365\255\251\161\271\357\117\130\035\245\336\164\040\227
\241\355\150\114\336\222\027\113\274\253\377\145\232\236\373\107
\331\127\162\363\011\241\256\166\104\023\156\234\055\104\071\274
\371\307\073\244\130\075\101\275\264\302\111\243\310\015\322\227
\057\007\145\122\000\247\156\310\257\150\354\364\024\226\266\127
\037\126\303\071\237\053\155\344\363\076\366\065\144\332\014\034
\241\204\113\057\113\113\342\054\044\235\155\223\100\353\265\043
\216\062\312\157\105\323\250\211\173\036\317\036\372\133\103\213
\315\315\250\017\152\312\014\136\271\236\107\217\360\331\266\012
\013\130\145\027\063\271\043\344\167\031\175\313\112\056\222\173
\117\057\020\167\261\215\057\150\234\142\314\340\120\370\354\221
\247\124\114\127\011\325\166\143\305\350\145\036\356\155\152\317
\011\235\372\174\117\255\140\010\375\126\231\017\025\054\173\251
\200\253\214\141\217\112\007\166\102\336\075\364\335\262\044\063
\133\270\265\243\104\311\254\177\167\074\035\043\354\202\251\246
\342\310\006\114\002\376\254\134\231\231\013\057\020\212\246\364
\177\325\207\164\015\131\111\105\366\360\161\134\071\051\326\277
\112\043\213\365\137\001\143\322\207\163\050\265\113\012\365\370
\253\202\054\176\163\045\062\035\013\143\012\027\201\000\377\266
\166\136\347\264\261\100\312\041\273\325\200\121\345\110\122\147
\054\322\141\211\007\015\017\316\102\167\300\104\163\234\104\120
\240\333\020\012\055\225\034\201\257\344\034\345\024\036\361\066
\101\001\002\057\175\163\247\336\102\314\114\351\211\015\126\367
\237\221\324\003\306\154\311\217\333\330\034\340\100\230\135\146
\231\230\200\156\055\377\001\305\316\313\106\037\254\002\306\103
\346\256\242\204\074\305\116\036\075\155\311\024\114\343\056\101
\273\312\071\277\066\074\052\031\252\101\207\116\245\316\113\062
\171\335\220\111\177\002\003\001\000\001\243\143\060\141\060\037
\006\003\125\035\043\004\030\060\026\200\024\234\137\320\154\143
\243\137\223\312\223\230\010\255\214\207\245\054\134\301\067\060
\035\006\003\125\035\016\004\026\004\024\234\137\320\154\143\243
\137\223\312\223\230\010\255\214\207\245\054\134\301\067\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060\017
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202
\002\001\000\116\036\271\212\306\240\230\077\156\303\151\300\152
\134\111\122\254\313\053\135\170\070\301\325\124\204\237\223\360
\207\031\075\054\146\211\353\015\102\374\314\360\165\205\077\213
\364\200\135\171\345\027\147\275\065\202\342\362\074\216\175\133
\066\313\132\200\000\051\362\316\053\054\361\217\252\155\005\223
\154\162\307\126\353\337\120\043\050\345\105\020\075\350\147\243
\257\016\125\017\220\011\142\357\113\131\242\366\123\361\300\065
\344\057\301\044\275\171\057\116\040\042\073\375\032\040\260\244
\016\054\160\355\164\077\270\023\225\006\121\310\350\207\046\312
\244\133\152\026\041\222\335\163\140\236\020\030\336\074\201\352
\350\030\303\174\211\362\213\120\076\275\021\342\025\003\250\066

\175\063\001\154\110\025\327\210\220\231\004\305\314\346\007\364
\274\364\220\355\023\342\352\213\303\217\243\063\017\301\051\114
\023\116\332\025\126\161\163\162\202\120\366\232\063\174\242\261
\250\032\064\164\145\134\316\321\353\253\123\340\032\200\330\352
\072\111\344\046\060\233\345\034\212\250\251\025\062\206\231\222
\012\020\043\126\022\340\366\316\114\342\273\276\333\215\222\163
\001\146\057\142\076\262\162\047\105\066\355\115\126\343\227\231
\377\072\065\076\245\124\112\122\131\113\140\333\356\376\170\021
\177\112\334\024\171\140\266\153\144\003\333\025\203\341\242\276
\366\043\227\120\360\011\063\066\247\161\226\045\363\271\102\175
\333\070\077\054\130\254\350\102\341\016\330\323\073\114\056\202
\351\203\056\153\061\331\335\107\206\117\155\227\221\056\117\342
\050\161\065\026\321\362\163\376\045\053\007\107\044\143\047\310
\370\366\331\153\374\022\061\126\010\300\123\102\257\234\320\063
\176\374\006\360\061\104\003\024\361\130\352\362\152\015\251\021
\262\203\276\305\032\277\007\352\131\334\243\210\065\357\234\166
\062\074\115\006\042\316\025\345\335\236\330\217\332\336\322\304
\071\345\027\201\317\070\107\353\177\210\155\131\033\337\237\102
\024\256\176\317\250\260\146\145\332\067\257\237\252\075\352\050
\266\336\325\061\130\026\202\133\352\273\031\165\002\163\032\312
\110\032\041\223\220\012\216\223\204\247\175\073\043\030\222\211
\240\215\254
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "ANF Secure Server Root CA"
Issuer: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de
Certificacion,C=ES,serialNumber=G63287510
Serial Number:0d:d3:e3:bc:6c:f9:6b:b1
Subject: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de
Certificacion,C=ES,serialNumber=G63287510
Not Valid Before: Wed Sep 04 10:00:38 2019
Not Valid After : Tue Aug 30 10:00:38 2039
Fingerprint (SHA-256):
FB:8F:EC:75:91:69:B9:10:6B:1E:51:16:44:C6:18:C5:13:04:37:3F:6C:06:43:08:8D:8B:EF:FD:1B:99:75:99
Fingerprint (SHA1): 5B:6E:68:D0:CC:15:B6:A0:5F:1E:C1:5F:AE:02:FC:6B:2F:5D:6F:74
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANF Secure Server Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\133\156\150\320\314\025\266\240\137\036\301\137\256\002\374\153
\057\135\157\164
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL

\046\246\104\132\331\257\116\057\262\035\266\145\260\116\350\226
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\204\061\022\060\020\006\003\125\004\005\023\011\107\066
\063\062\070\067\065\061\060\061\013\060\011\006\003\125\004\006
\023\002\105\123\061\047\060\045\006\003\125\004\012\023\036\101
\116\106\040\101\165\164\157\162\151\144\141\144\040\144\145\040
\103\145\162\164\151\146\151\143\141\143\151\157\156\061\024\060
\022\006\003\125\004\013\023\013\101\116\106\040\103\101\040\122
\141\151\172\061\042\060\040\006\003\125\004\003\023\031\101\116
\106\040\123\145\143\165\162\145\040\123\145\162\166\145\162\040
\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\015\323\343\274\154\371\153\261
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Certum EC-384 CA"
#
Issuer: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
Serial Number:78:8f:27:5c:81:12:52:20:a5:04:d0:2d:dd:ba:73:f4
Subject: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
Not Valid Before: Mon Mar 26 07:24:54 2018
Not Valid After : Thu Mar 26 07:24:54 2043
Fingerprint (SHA-256):
6B:32:80:85:62:53:18:AA:50:D1:73:C9:8D:8B:DA:09:D5:7E:27:41:3D:11:4C:F7:87:A0:F5:D0:6C:03:0C:F6
Fingerprint (SHA1): F3:3E:78:3C:AC:DF:F4:A2:CC:AC:67:55:69:56:D7:E5:16:3C:E1:ED
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum EC-384 CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\164\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157
\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\031\060\027\006
\003\125\004\003\023\020\103\145\162\164\165\155\040\105\103\055
\063\070\064\040\103\101
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\164\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157
\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\031\060\027\006
\003\125\004\003\023\020\103\145\162\164\165\155\040\105\103\055
\063\070\064\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\170\217\047\134\201\022\122\040\245\004\320\055\335\272
\163\364
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\145\060\202\001\353\240\003\002\001\002\002\020\170
\217\047\134\201\022\122\040\245\004\320\055\335\272\163\364\060
\012\006\010\052\206\110\316\075\004\003\003\060\164\061\013\060
\011\006\003\125\004\006\023\002\120\114\061\041\060\037\006\003
\125\004\012\023\030\101\163\163\145\143\157\040\104\141\164\141
\040\123\171\163\164\145\155\163\040\123\056\101\056\061\047\060
\045\006\003\125\004\013\023\036\103\145\162\164\165\155\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\061\031\060\027\006\003\125\004\003\023
\020\103\145\162\164\165\155\040\105\103\055\063\070\064\040\103
\101\060\036\027\015\061\070\060\063\062\066\060\067\062\064\065
\064\132\027\015\064\063\060\063\062\066\060\067\062\064\065\064
\132\060\164\061\013\060\011\006\003\125\004\006\023\002\120\114
\061\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143
\157\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123
\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145
\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\061\031\060\027
\006\003\125\004\003\023\020\103\145\162\164\165\155\040\105\103
\055\063\070\064\040\103\101\060\166\060\020\006\007\052\206\110
\316\075\002\001\006\005\053\201\004\000\042\003\142\000\004\304
\050\216\253\030\133\152\276\156\144\067\143\344\315\354\253\072
\367\314\241\270\016\202\111\327\206\051\237\241\224\362\343\140
\170\230\201\170\006\115\362\354\232\016\127\140\203\237\264\346
\027\057\032\263\135\002\133\211\043\074\302\021\005\052\247\210
\023\030\363\120\204\327\275\064\054\047\211\125\377\316\114\347
\337\246\037\050\304\360\124\303\271\174\267\123\255\353\302\243
\102\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024\215
\006\146\164\044\166\072\363\211\367\274\326\275\107\175\057\274
\020\137\113\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\006\060\012\006\010\052\206\110\316\075\004\003\003\003

\150\000\060\145\002\060\003\125\055\246\346\030\304\174\357\311
\120\156\301\047\017\234\207\257\156\325\033\010\030\275\222\051
\301\357\224\221\170\322\072\034\125\211\142\345\033\011\036\272
\144\153\361\166\264\324\002\061\000\264\102\204\231\377\253\347
\236\373\221\227\047\135\334\260\133\060\161\316\136\070\032\152
\331\045\347\352\367\141\222\126\370\352\332\066\302\207\145\226
\056\162\045\057\177\337\303\023\311
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Certum EC-384 CA"
Issuer: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
Serial Number:78:8f:27:5c:81:12:52:20:a5:04:d0:2d:dd:ba:73:f4
Subject: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
Not Valid Before: Mon Mar 26 07:24:54 2018
Not Valid After : Thu Mar 26 07:24:54 2043
Fingerprint (SHA-256):
6B:32:80:85:62:53:18:AA:50:D1:73:C9:8D:8B:DA:09:D5:7E:27:41:3D:11:4C:F7:87:A0:F5:D0:6C:03:0C:F6
Fingerprint (SHA1): F3:3E:78:3C:AC:DF:F4:A2:CC:AC:67:55:69:56:D7:E5:16:3C:E1:ED
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum EC-384 CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\363\076\170\074\254\337\364\242\314\254\147\125\151\126\327\345
\026\074\341\355
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\266\145\263\226\140\227\022\241\354\116\341\075\243\306\311\361
END
CKA_ISSUER MULTILINE_OCTAL
\060\164\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157
\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\031\060\027\006
\003\125\004\003\023\020\103\145\162\164\165\155\040\105\103\055
\063\070\064\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\170\217\047\134\201\022\122\040\245\004\320\055\335\272
\163\364
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Certum Trusted Root CA"
#
Issuer: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
Serial Number:1e:bf:59:50:b8:c9:80:37:4c:06:f7:eb:55:4f:b5:ed
Subject: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
Not Valid Before: Fri Mar 16 12:10:13 2018
Not Valid After : Mon Mar 16 12:10:13 2043
Fingerprint (SHA-256):
FE:76:96:57:38:55:77:3E:37:A9:5E:7A:D4:D9:CC:96:C3:01:57:C1:5D:31:76:5B:A9:B1:57:04:E1:AE:78:FD
Fingerprint (SHA1): C8:83:44:C0:18:AE:9F:CC:F1:87:B7:8F:22:D1:C5:D7:45:84:BA:E5
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\172\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157
\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\037\060\035\006
\003\125\004\003\023\026\103\145\162\164\165\155\040\124\162\165
\163\164\145\144\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\172\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157
\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\037\060\035\006
\003\125\004\003\023\026\103\145\162\164\165\155\040\124\162\165
\163\164\145\144\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\036\277\131\120\270\311\200\067\114\006\367\353\125\117
\265\355
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\300\060\202\003\250\240\003\002\001\002\002\020\036

\277\131\120\270\311\200\067\114\006\367\353\125\117\265\355\060
\015\006\011\052\206\110\206\367\015\001\001\015\005\000\060\172
\061\013\060\011\006\003\125\004\006\023\002\120\114\061\041\060
\037\006\003\125\004\012\023\030\101\163\163\145\143\157\040\104
\141\164\141\040\123\171\163\164\145\155\163\040\123\056\101\056
\061\047\060\045\006\003\125\004\013\023\036\103\145\162\164\165
\155\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\101\165\164\150\157\162\151\164\171\061\037\060\035\006\003\125
\004\003\023\026\103\145\162\164\165\155\040\124\162\165\163\164
\145\144\040\122\157\157\164\040\103\101\060\036\027\015\061\070
\060\063\061\066\061\062\061\060\061\063\132\027\015\064\063\060
\063\061\066\061\062\061\060\061\063\132\060\172\061\013\060\011
\006\003\125\004\006\023\002\120\114\061\041\060\037\006\003\125
\004\012\023\030\101\163\163\145\143\157\040\104\141\164\141\040
\123\171\163\164\145\155\163\040\123\056\101\056\061\047\060\045
\006\003\125\004\013\023\036\103\145\162\164\165\155\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171\061\037\060\035\006\003\125\004\003\023\026
\103\145\162\164\165\155\040\124\162\165\163\164\145\144\040\122
\157\157\164\040\103\101\060\202\002\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202
\002\012\002\202\002\001\000\321\055\216\273\267\066\352\155\067
\221\237\116\223\247\005\344\051\003\045\316\034\202\367\174\231
\237\101\006\315\355\243\272\300\333\011\054\301\174\337\051\176
\113\145\057\223\247\324\001\153\003\050\030\243\330\235\005\301
\052\330\105\361\221\336\337\073\320\200\002\214\317\070\017\352
\247\134\170\021\244\301\310\205\134\045\323\323\262\347\045\317
\021\124\227\253\065\300\036\166\034\357\000\123\237\071\334\024
\245\054\042\045\263\162\162\374\215\263\345\076\010\036\024\052
\067\013\210\074\312\260\364\310\302\241\256\274\301\276\051\147
\125\342\374\255\131\134\376\275\127\054\260\220\215\302\355\067
\266\174\231\210\265\325\003\232\075\025\015\075\072\250\250\105
\360\225\116\045\131\035\315\230\151\273\323\314\062\311\215\357
\201\376\255\175\211\273\272\140\023\312\145\225\147\240\363\031
\366\003\126\324\152\323\047\342\241\255\203\360\112\022\042\167
\034\005\163\342\031\161\102\300\354\165\106\232\220\130\340\152
\216\053\245\106\060\004\216\031\262\027\343\276\251\272\177\126
\361\044\003\327\262\041\050\166\016\066\060\114\171\325\101\232
\232\250\270\065\272\014\072\362\104\033\040\210\367\305\045\327
\075\306\343\076\103\335\207\376\304\352\365\123\076\114\145\377
\073\112\313\170\132\153\027\137\015\307\303\117\116\232\052\242
\355\127\115\042\342\106\232\077\017\221\064\044\175\125\343\214
\225\067\323\032\360\011\053\054\322\311\215\264\015\000\253\147
\051\050\330\001\365\031\004\266\035\276\166\376\162\134\304\205
\312\322\200\101\337\005\250\243\325\204\220\117\013\363\340\077
\233\031\322\067\211\077\362\173\122\034\214\366\341\367\074\007
\227\214\016\242\131\201\014\262\220\075\323\343\131\106\355\017
\251\247\336\200\153\132\252\007\266\031\313\274\127\363\227\041

\172\014\261\053\164\076\353\332\247\147\055\114\304\230\236\066
\011\166\146\146\374\032\077\352\110\124\034\276\060\275\200\120
\277\174\265\316\000\366\014\141\331\347\044\003\340\343\001\201
\016\275\330\205\064\210\275\262\066\250\173\134\010\345\104\200
\214\157\370\057\325\041\312\035\034\320\373\304\265\207\321\072
\116\307\166\265\065\110\265\002\003\001\000\001\243\102\060\100
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\035\006\003\125\035\016\004\026\004\024\214\373\034\165
\274\002\323\237\116\056\110\331\371\140\124\252\304\263\117\372
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006
\060\015\006\011\052\206\110\206\367\015\001\001\015\005\000\003
\202\002\001\000\110\242\325\000\013\056\320\077\274\034\325\265
\124\111\036\132\153\364\344\362\340\100\067\340\314\024\173\271
\311\372\065\265\165\027\223\152\005\151\205\234\315\117\031\170
\133\031\201\363\143\076\303\316\133\217\365\057\136\001\166\023
\077\054\000\271\315\226\122\071\111\155\004\116\305\351\017\206
\015\341\372\263\137\202\022\361\072\316\146\006\044\064\053\350
\314\312\347\151\334\207\235\302\064\327\171\321\323\167\270\252
\131\130\376\235\046\372\070\206\076\235\212\207\144\127\345\027
\072\342\371\215\271\343\063\170\301\220\330\270\335\267\203\121
\344\304\314\043\325\006\174\346\121\323\315\064\061\300\366\106
\273\013\255\374\075\020\005\052\073\112\221\045\356\214\324\204
\207\200\052\274\011\214\252\072\023\137\350\064\171\120\301\020
\031\371\323\050\036\324\321\121\060\051\263\256\220\147\326\037
\012\143\261\305\251\306\102\061\143\027\224\357\151\313\057\372
\214\024\175\304\103\030\211\331\360\062\100\346\200\342\106\137
\345\343\301\000\131\250\371\350\040\274\211\054\016\107\064\013
\352\127\302\123\066\374\247\324\257\061\315\376\002\345\165\372
\271\047\011\371\363\365\073\312\175\237\251\042\313\210\311\252
\321\107\075\066\167\250\131\144\153\047\317\357\047\301\343\044
\265\206\367\256\176\062\115\260\171\150\321\071\350\220\130\303
\203\274\017\054\326\227\353\316\014\341\040\307\332\267\076\303
\077\277\057\334\064\244\373\053\041\315\147\217\113\364\343\352
\324\077\347\117\272\271\245\223\105\034\146\037\041\372\144\136
\157\340\166\224\062\313\165\365\156\345\366\217\307\270\244\314
\250\226\175\144\373\044\132\112\003\154\153\070\306\350\003\103
\232\367\127\271\263\051\151\223\070\364\003\362\273\373\202\153
\007\040\321\122\037\232\144\002\173\230\146\333\134\115\132\017
\320\204\225\240\074\024\103\006\312\312\333\270\101\066\332\152
\104\147\207\257\257\343\105\021\025\151\010\262\276\026\071\227
\044\157\022\105\321\147\135\011\250\311\025\332\372\322\246\137
\023\141\037\277\205\254\264\255\255\005\224\010\203\036\165\027
\323\161\073\223\120\043\131\240\355\074\221\124\235\166\000\305
\303\270\070\333
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Trust for "Certum Trusted Root CA"
# Issuer: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Serial Number:1e:bf:59:50:b8:c9:80:37:4c:06:f7:eb:55:4f:b5:ed
# Subject: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Not Valid Before: Fri Mar 16 12:10:13 2018
# Not Valid After : Mon Mar 16 12:10:13 2043
# Fingerprint (SHA-256):
FE:76:96:57:38:55:77:3E:37:A9:5E:7A:D4:D9:CC:96:C3:01:57:C1:5D:31:76:5B:A9:B1:57:04:E1:AE:78:FD
# Fingerprint (SHA1): C8:83:44:C0:18:AE:9F:CC:F1:87:B7:8F:22:D1:C5:D7:45:84:BA:E5
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\310\203\104\300\030\256\237\314\361\207\267\217\042\321\305\327
\105\204\272\345
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\121\341\302\347\376\114\204\257\131\016\057\364\124\157\352\051
END
CKA_ISSUER MULTILINE_OCTAL
\060\172\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157
\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\037\060\035\006
\003\125\004\003\023\026\103\145\162\164\165\155\040\124\162\165
\163\164\145\144\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\036\277\131\120\270\311\200\067\114\006\367\353\125\117
\265\355
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "TunTrust Root CA"
#
# Issuer: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
# Serial Number:13:02:d5:e2:40:4c:92:46:86:16:67:5d:b4:bb:bb:b2:6b:3e:fc:13
# Subject: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
# Not Valid Before: Fri Apr 26 08:57:56 2019
```

Not Valid After : Tue Apr 26 08:57:56 2044
Fingerprint (SHA-256):
2E:44:10:2A:B5:8C:B8:54:19:45:1C:8E:19:D9:AC:F3:66:2C:AF:BC:61:4B:6A:53:96:0A:30:F7:D0:E2:EB:41
Fingerprint (SHA1): CF:E9:70:84:0F:E0:73:0F:9D:F6:0C:7F:2C:4B:EE:20:46:34:9C:BB
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TunTrust Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\124\116\061
\067\060\065\006\003\125\004\012\014\056\101\147\145\156\143\145
\040\116\141\164\151\157\156\141\154\145\040\144\145\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\105\154\145\143
\164\162\157\156\151\161\165\145\061\031\060\027\006\003\125\004
\003\014\020\124\165\156\124\162\165\163\164\040\122\157\157\164
\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\124\116\061
\067\060\065\006\003\125\004\012\014\056\101\147\145\156\143\145
\040\116\141\164\151\157\156\141\154\145\040\144\145\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\105\154\145\143
\164\162\157\156\151\161\165\145\061\031\060\027\006\003\125\004
\003\014\020\124\165\156\124\162\165\163\164\040\122\157\157\164
\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\023\002\325\342\100\114\222\106\206\026\147\135\264\273
\273\262\153\076\374\023
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\263\060\202\003\233\240\003\002\001\002\002\024\023
\002\325\342\100\114\222\106\206\026\147\135\264\273\273\262\153
\076\374\023\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\141\061\013\060\011\006\003\125\004\006\023\002\124
\116\061\067\060\065\006\003\125\004\012\014\056\101\147\145\156
\143\145\040\116\141\164\151\157\156\141\154\145\040\144\145\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\105\154
\145\143\164\162\157\156\151\161\165\145\061\031\060\027\006\003
\125\004\003\014\020\124\165\156\124\162\165\163\164\040\122\157
\157\164\040\103\101\060\036\027\015\061\071\060\064\062\066\060
\070\065\067\065\066\132\027\015\064\064\060\064\062\066\060\070
\065\067\065\066\132\060\141\061\013\060\011\006\003\125\004\006
\023\002\124\116\061\067\060\065\006\003\125\004\012\014\056\101
\147\145\156\143\145\040\116\141\164\151\157\156\141\154\145\040

\144\145\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\105\154\145\143\164\162\157\156\151\161\165\145\061\031\060
\027\006\003\125\004\003\014\020\124\165\156\124\162\165\163\164
\040\122\157\157\164\040\103\101\060\202\002\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000
\060\202\002\012\002\202\002\001\000\303\315\323\374\275\004\123
\335\014\040\072\325\210\056\005\113\101\365\203\202\176\367\131
\237\236\236\143\350\163\332\366\006\251\117\037\264\371\013\037
\071\214\232\040\320\176\006\324\354\064\331\206\274\165\133\207
\210\360\322\331\324\243\012\262\154\033\353\111\054\076\254\135
\330\224\003\240\354\064\345\060\304\065\175\373\046\115\033\156
\060\124\330\365\200\105\234\071\255\234\311\045\004\115\232\220
\076\116\100\156\212\153\315\051\147\306\314\055\340\164\350\005
\127\012\110\120\372\172\103\332\176\354\133\232\016\142\166\376
\352\235\035\205\162\354\021\273\065\350\037\047\277\301\241\307
\273\110\026\335\126\327\314\116\240\341\271\254\333\325\203\031
\032\205\321\224\227\327\312\243\145\013\363\070\371\002\256\335
\366\147\317\311\077\365\212\054\107\032\231\157\005\015\375\320
\035\202\061\374\051\314\000\130\227\221\114\200\000\034\063\205
\226\057\313\101\302\213\020\204\303\011\044\211\037\265\017\331
\331\167\107\030\222\224\140\134\307\231\003\074\376\367\225\247
\175\120\241\200\302\251\203\255\130\226\125\041\333\206\131\324
\257\306\274\335\201\156\007\333\140\142\376\354\020\156\332\150
\001\364\203\033\251\076\242\133\043\327\144\306\337\334\242\175
\330\113\272\202\322\121\370\146\277\006\106\344\171\052\046\066
\171\217\037\116\231\035\262\217\014\016\034\377\311\135\300\375
\220\020\246\261\067\363\315\072\044\156\264\205\220\277\200\271
\014\214\325\233\326\310\361\126\077\032\200\211\172\251\342\033
\062\121\054\076\362\337\173\366\135\172\051\031\216\345\310\275
\066\161\213\135\114\302\035\077\255\130\242\317\075\160\115\246
\120\230\045\334\043\371\270\130\101\010\161\277\117\270\204\240
\217\000\124\025\374\221\155\130\247\226\073\353\113\226\047\315
\153\242\241\206\254\015\174\124\346\146\114\146\137\220\276\041
\232\002\106\055\344\203\302\200\271\317\113\076\350\177\074\001
\354\217\136\315\177\322\050\102\001\225\212\342\227\075\020\041
\175\366\235\034\305\064\241\354\054\016\012\122\054\022\125\160
\044\075\313\302\024\065\103\135\047\116\276\300\275\252\174\226
\347\374\236\141\255\104\323\000\227\002\003\001\000\001\243\143
\060\141\060\035\006\003\125\035\016\004\026\004\024\006\232\233
\037\123\175\361\365\244\310\323\206\076\241\163\131\264\367\104
\041\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\037\006\003\125\035\043\004\030\060\026\200\024\006
\232\233\037\123\175\361\365\244\310\323\206\076\241\163\131\264
\367\104\041\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\006\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\003\202\002\001\000\252\005\156\266\335\025\311\277\263
\306\040\366\006\107\260\206\223\045\323\215\271\310\000\077\227
\365\122\047\210\161\311\164\375\353\312\144\333\133\357\036\135

\272\277\321\353\356\134\151\272\026\310\363\271\217\323\066\056
\100\111\007\015\131\336\213\020\260\111\005\342\377\221\077\113
\267\335\002\216\370\201\050\134\314\334\155\257\137\024\234\175
\130\170\015\366\200\011\271\351\016\227\051\031\270\267\353\370
\026\313\125\022\344\306\175\273\304\354\370\265\034\116\076\147
\277\305\137\033\155\155\107\050\252\004\130\141\326\166\277\042
\177\320\007\152\247\144\123\360\227\215\235\200\077\273\301\007
\333\145\257\346\233\062\232\303\124\223\304\034\010\303\104\373
\173\143\021\103\321\152\032\141\152\171\155\220\117\051\216\107
\005\301\022\151\151\326\306\066\061\341\374\372\200\272\134\117
\304\353\267\062\254\370\165\141\027\327\020\031\271\361\322\011
\357\172\102\235\133\132\013\324\306\225\116\052\316\377\007\327
\117\176\030\006\210\361\031\265\331\230\273\256\161\304\034\347
\164\131\130\357\014\211\317\213\037\165\223\032\004\024\222\110
\120\251\353\127\051\000\026\343\066\034\310\370\277\360\063\325
\101\017\304\314\074\335\351\063\103\001\221\020\053\036\321\271
\135\315\062\031\213\217\214\040\167\327\042\304\102\334\204\026
\233\045\155\350\264\125\161\177\260\174\263\323\161\111\271\317
\122\244\004\077\334\075\240\273\257\063\236\012\060\140\216\333
\235\135\224\250\275\140\347\142\200\166\201\203\014\214\314\060
\106\111\342\014\322\250\257\353\141\161\357\347\042\142\251\367
\134\144\154\237\026\214\147\066\047\105\365\011\173\277\366\020
\012\361\260\215\124\103\214\004\272\243\077\357\342\065\307\371
\164\340\157\064\101\320\277\163\145\127\040\371\233\147\172\146
\150\044\116\200\145\275\020\231\006\131\362\145\257\270\306\107
\273\375\220\170\213\101\163\056\257\125\037\334\073\222\162\156
\204\323\320\141\114\015\314\166\127\342\055\205\042\025\066\015
\353\001\235\353\330\353\304\204\231\373\300\014\314\062\350\343
\167\332\203\104\213\236\125\050\300\213\130\323\220\076\116\033
\000\361\025\255\203\053\232
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "TunTrust Root CA"
Issuer: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
Serial Number:13:02:d5:e2:40:4c:92:46:86:16:67:5d:b4:bb:bb:b2:6b:3e:fc:13
Subject: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
Not Valid Before: Fri Apr 26 08:57:56 2019
Not Valid After : Tue Apr 26 08:57:56 2044
Fingerprint (SHA-256):
2E:44:10:2A:B5:8C:B8:54:19:45:1C:8E:19:D9:AC:F3:66:2C:AF:BC:61:4B:6A:53:96:0A:30:F7:D0:E2:EB:41
Fingerprint (SHA1): CF:E9:70:84:0F:E0:73:0F:9D:F6:0C:7F:2C:4B:EE:20:46:34:9C:BB
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "TunTrust Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\317\351\160\204\017\340\163\017\235\366\014\177\054\113\356\040
\106\064\234\273
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\205\023\271\220\133\066\134\266\136\270\132\370\340\061\127\264
END
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\124\116\061
\067\060\065\006\003\125\004\012\014\056\101\147\145\156\143\145
\040\116\141\164\151\157\156\141\154\145\040\144\145\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\105\154\145\143
\164\162\157\156\151\161\165\145\061\031\060\027\006\003\125\004
\003\014\020\124\165\156\124\162\165\163\164\040\122\157\157\164
\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\023\002\325\342\100\114\222\106\206\026\147\135\264\273
\273\262\153\076\374\023
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "HARICA TLS RSA Root CA 2021"
#
Issuer: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Serial Number:39:ca:93:1c:ef:43:f3:c6:8e:93:c7:f4:64:89:38:7e
Subject: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Not Valid Before: Fri Feb 19 10:55:38 2021
Not Valid After : Mon Feb 13 10:55:37 2045
Fingerprint (SHA-256):
D9:5D:0E:8E:DA:79:52:5B:F9:BE:B1:1B:14:D2:10:0D:32:94:98:5F:0C:62:D9:FA:BD:9C:D9:99:EC:CB:7B:1D
Fingerprint (SHA1): 02:2D:05:82:FA:88:CE:14:0C:06:79:DE:7F:14:10:E9:45:D7:A5:6D
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA TLS RSA Root CA 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165

\164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004
\003\014\033\110\101\122\111\103\101\040\124\114\123\040\122\123
\101\040\122\157\157\164\040\103\101\040\062\060\062\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004
\003\014\033\110\101\122\111\103\101\040\124\114\123\040\122\123
\101\040\122\157\157\164\040\103\101\040\062\060\062\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\071\312\223\034\357\103\363\306\216\223\307\364\144\211
\070\176
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\244\060\202\003\214\240\003\002\001\002\002\020\071
\312\223\034\357\103\363\306\216\223\307\364\144\211\070\176\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\154
\061\013\060\011\006\003\125\004\006\023\002\107\122\061\067\060
\065\006\003\125\004\012\014\056\110\145\154\154\145\156\151\143
\040\101\143\141\144\145\155\151\143\040\141\156\144\040\122\145
\163\145\141\162\143\150\040\111\156\163\164\151\164\165\164\151
\157\156\163\040\103\101\061\044\060\042\006\003\125\004\003\014
\033\110\101\122\111\103\101\040\124\114\123\040\122\123\101\040
\122\157\157\164\040\103\101\040\062\060\062\061\060\036\027\015
\062\061\060\062\061\071\061\060\065\065\063\070\132\027\015\064
\065\060\062\061\063\061\060\065\065\063\067\132\060\154\061\013
\060\011\006\003\125\004\006\023\002\107\122\061\067\060\065\006
\003\125\004\012\014\056\110\145\154\154\145\156\151\143\040\101
\143\141\144\145\155\151\143\040\141\156\144\040\122\145\163\145
\141\162\143\150\040\111\156\163\164\151\164\165\164\151\157\156
\163\040\103\101\061\044\060\042\006\003\125\004\003\014\033\110
\101\122\111\103\101\040\124\114\123\040\122\123\101\040\122\157
\157\164\040\103\101\040\062\060\062\061\060\202\002\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002
\017\000\060\202\002\012\002\202\002\001\000\213\302\347\257\145
\233\005\147\226\311\015\044\271\320\016\144\374\316\342\044\030
\054\204\177\167\121\313\004\021\066\270\136\355\151\161\247\236
\344\045\011\227\147\301\107\302\317\221\026\066\142\075\070\004
\341\121\202\377\254\322\264\151\335\056\354\021\243\105\356\153
\153\073\114\277\214\215\244\036\235\021\271\351\070\371\172\016
\014\230\342\043\035\321\116\143\324\347\270\101\104\373\153\257
\153\332\037\323\305\221\210\133\244\211\222\321\201\346\214\071
\130\240\326\151\103\251\255\230\122\130\156\333\012\373\153\317

\150\372\343\244\136\072\105\163\230\007\352\137\002\162\336\014
\245\263\237\256\251\035\267\035\263\374\212\131\347\156\162\145
\255\365\060\224\043\007\363\202\026\113\065\230\234\123\273\057
\312\344\132\331\307\215\035\374\230\231\373\054\244\202\153\360
\052\037\216\013\137\161\134\134\256\102\173\051\211\201\313\003
\243\231\312\210\236\013\100\011\101\063\333\346\130\172\375\256
\231\160\300\132\017\326\023\206\161\057\166\151\374\220\335\333
\055\156\321\362\233\365\032\153\236\157\025\214\172\360\113\050
\240\042\070\200\044\154\066\244\073\362\060\221\363\170\023\317
\301\077\065\253\361\035\021\043\265\103\042\236\001\222\267\030
\002\345\021\321\202\333\025\000\314\141\067\301\052\174\232\341
\320\272\263\120\106\356\202\254\235\061\370\373\043\342\003\000
\110\160\243\011\046\171\025\123\140\363\070\134\255\070\352\201
\000\143\024\271\063\136\335\013\333\240\105\007\032\063\011\370
\115\264\247\002\246\151\364\302\131\005\210\145\205\126\256\113
\313\340\336\074\175\055\032\310\351\373\037\243\141\112\326\052
\023\255\167\114\032\030\233\221\017\130\330\006\124\305\227\370
\252\077\040\212\246\205\246\167\366\246\374\034\342\356\156\224
\063\052\203\120\204\012\345\117\206\370\120\105\170\000\201\353
\133\150\343\046\215\314\173\134\121\364\024\054\100\276\032\140
\035\172\162\141\035\037\143\055\210\252\316\242\105\220\010\374
\153\276\263\120\052\132\375\250\110\030\106\326\220\100\222\220
\012\204\136\150\061\370\353\355\015\323\035\306\175\231\030\125
\126\047\145\056\215\105\305\044\354\316\343\002\003\001\000\001
\243\102\060\100\060\017\006\003\125\035\023\001\001\377\004\005
\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024
\012\110\043\246\140\244\222\012\063\352\223\133\305\127\352\045
\115\275\022\356\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\206\060\015\006\011\052\206\110\206\367\015\001\001
\013\005\000\003\202\002\001\000\076\220\110\252\156\142\025\045
\146\173\014\325\214\213\211\235\327\355\116\007\357\234\320\024
\137\136\120\275\150\226\220\244\024\021\252\150\155\011\065\071
\100\011\332\364\011\054\064\245\173\131\204\111\051\227\164\310
\007\036\107\155\362\316\034\120\046\343\236\075\100\123\077\367
\177\226\166\020\305\106\245\320\040\113\120\364\065\073\030\364
\125\152\101\033\107\006\150\074\273\011\010\142\331\137\125\102
\252\254\123\205\254\225\126\066\126\253\344\005\214\305\250\332
\037\243\151\275\123\017\304\377\334\312\343\176\362\114\210\206
\107\106\032\363\000\365\200\221\242\334\103\102\224\233\040\360
\321\315\262\353\054\123\302\123\170\112\117\004\224\101\232\217
\047\062\301\345\111\031\277\361\362\302\213\250\012\071\061\050
\264\175\142\066\054\115\354\037\063\266\176\167\155\176\120\360
\237\016\327\021\217\317\030\305\343\047\376\046\357\005\235\317
\317\067\305\320\173\332\073\260\026\204\014\072\223\326\276\027
\333\017\076\016\031\170\011\307\251\002\162\042\113\367\067\166
\272\165\304\205\003\132\143\325\261\165\005\302\271\275\224\255
\214\025\231\247\223\175\366\305\363\252\164\317\004\205\224\230
\000\364\342\371\312\044\145\277\340\142\257\310\305\372\262\311

\236\126\110\332\171\375\226\166\025\276\243\216\126\304\263\064
\374\276\107\364\301\264\250\374\325\060\210\150\356\313\256\311
\143\304\166\276\254\070\030\341\136\134\317\256\072\042\121\353
\321\213\263\363\053\063\007\124\207\372\264\262\023\173\272\123
\004\142\001\235\361\300\117\356\341\072\324\213\040\020\372\002
\127\346\357\301\013\267\220\106\234\031\051\214\334\157\240\112
\151\151\224\267\044\145\240\377\254\077\316\001\373\041\056\375
\150\370\233\362\245\317\061\070\134\025\252\346\227\000\301\337
\132\245\247\071\252\351\204\177\074\121\250\072\331\224\133\214
\277\117\010\161\345\333\250\134\324\322\246\376\000\243\306\026
\307\017\350\200\316\034\050\144\164\031\010\323\102\343\316\000
\135\177\261\334\023\260\341\005\313\321\040\252\206\164\236\071
\347\221\375\377\133\326\367\255\246\057\003\013\155\343\127\124
\353\166\123\030\215\021\230\272
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "HARICA TLS RSA Root CA 2021"
Issuer: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Serial Number:39:ca:93:1c:ef:43:f3:c6:8e:93:c7:f4:64:89:38:7e
Subject: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Not Valid Before: Fri Feb 19 10:55:38 2021
Not Valid After : Mon Feb 13 10:55:37 2045
Fingerprint (SHA-256):
D9:5D:0E:8E:DA:79:52:5B:F9:BE:B1:1B:14:D2:10:0D:32:94:98:5F:0C:62:D9:FA:BD:9C:D9:99:EC:CB:7B:1D
Fingerprint (SHA1): 02:2D:05:82:FA:88:CE:14:0C:06:79:DE:7F:14:10:E9:45:D7:A5:6D
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA TLS RSA Root CA 2021"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\002\055\005\202\372\210\316\024\014\006\171\336\177\024\020\351
\105\327\245\155
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\145\107\233\130\206\335\054\360\374\242\204\037\036\226\304\221
END
CKA_ISSUER MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004
\003\014\033\110\101\122\111\103\101\040\124\114\123\040\122\123
\101\040\122\157\157\164\040\103\101\040\062\060\062\061

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\071\312\223\034\357\103\363\306\216\223\307\364\144\211
\070\176
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "HARICA TLS ECC Root CA 2021"
#
Issuer: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Serial Number:67:74:9d:8d:77:d8:3b:6a:db:22:f4:ff:59:e2:bf:ce
Subject: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Not Valid Before: Fri Feb 19 11:01:10 2021
Not Valid After : Mon Feb 13 11:01:09 2045
Fingerprint (SHA-256):
3F:99:CC:47:4A:CF:CE:4D:FE:D5:87:94:66:5E:47:8D:15:47:73:9F:2E:78:0F:1B:B4:CA:9B:13:30:97:D4:01
Fingerprint (SHA1): BC:B0:C1:9D:E9:98:92:70:19:38:57:E9:8D:A7:B4:5D:6E:EE:01:48
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA TLS ECC Root CA 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004
\003\014\033\110\101\122\111\103\101\040\124\114\123\040\105\103
\103\040\122\157\157\164\040\103\101\040\062\060\062\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004
\003\014\033\110\101\122\111\103\101\040\124\114\123\040\105\103
\103\040\122\157\157\164\040\103\101\040\062\060\062\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\147\164\235\215\167\330\073\152\333\042\364\377\131\342

\277\316
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\124\060\202\001\333\240\003\002\001\002\002\020\147
\164\235\215\167\330\073\152\333\042\364\377\131\342\277\316\060
\012\006\010\052\206\110\316\075\004\003\003\060\154\061\013\060
\011\006\003\125\004\006\023\002\107\122\061\067\060\065\006\003
\125\004\012\014\056\110\145\154\154\145\156\151\143\040\101\143
\141\144\145\155\151\143\040\141\156\144\040\122\145\163\145\141
\162\143\150\040\111\156\163\164\151\164\165\164\151\157\156\163
\040\103\101\061\044\060\042\006\003\125\004\003\014\033\110\101
\122\111\103\101\040\124\114\123\040\105\103\103\040\122\157\157
\164\040\103\101\040\062\060\062\061\060\036\027\015\062\061\060
\062\061\071\061\061\060\061\061\060\132\027\015\064\065\060\062
\061\063\061\061\060\061\060\071\132\060\154\061\013\060\011\006
\003\125\004\006\023\002\107\122\061\067\060\065\006\003\125\004
\012\014\056\110\145\154\154\145\156\151\143\040\101\143\141\144
\145\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143
\150\040\111\156\163\164\151\164\165\164\151\157\156\163\040\103
\101\061\044\060\042\006\003\125\004\003\014\033\110\101\122\111
\103\101\040\124\114\123\040\105\103\103\040\122\157\157\164\040
\103\101\040\062\060\062\061\060\166\060\020\006\007\052\206\110
\316\075\002\001\006\005\053\201\004\000\042\003\142\000\004\070
\010\376\261\240\226\322\172\254\257\111\072\320\300\340\303\073
\050\252\361\162\155\145\000\107\210\204\374\232\046\153\252\113
\272\154\004\012\210\136\027\362\125\207\374\060\260\064\342\064
\130\127\032\204\123\351\060\331\251\362\226\164\303\121\037\130
\111\061\314\230\116\140\021\207\165\323\162\224\220\117\233\020
\045\052\250\170\055\276\220\101\130\220\025\162\247\241\267\243
\102\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024\311
\033\123\201\022\376\004\325\026\321\252\274\232\157\267\240\225
\031\156\312\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\206\060\012\006\010\052\206\110\316\075\004\003\003\003
\147\000\060\144\002\060\021\336\256\370\334\116\210\260\251\360
\042\255\302\121\100\357\140\161\055\356\217\002\304\135\003\160
\111\244\222\352\305\024\210\160\246\323\015\260\252\312\054\100
\234\373\351\202\156\232\002\060\053\107\232\007\306\321\302\201
\174\312\013\226\030\101\033\243\364\060\011\236\265\043\050\015
\237\024\266\074\123\242\114\006\151\175\372\154\221\306\052\111
\105\346\354\267\023\341\072\154
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "HARICA TLS ECC Root CA 2021"
Issuer: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR

```
# Serial Number:67:74:9d:8d:77:d8:3b:6a:db:22:f4:ff:59:e2:bf:ce
# Subject: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 11:01:10 2021
# Not Valid After : Mon Feb 13 11:01:09 2045
# Fingerprint (SHA-256):
3F:99:CC:47:4A:CF:CE:4D:FE:D5:87:94:66:5E:47:8D:15:47:73:9F:2E:78:0F:1B:B4:CA:9B:13:30:97:D4:01
# Fingerprint (SHA1): BC:B0:C1:9D:E9:98:92:70:19:38:57:E9:8D:A7:B4:5D:6E:EE:01:48
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA TLS ECC Root CA 2021"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\274\260\301\235\351\230\222\160\031\070\127\351\215\247\264\135
\156\356\001\110
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\256\367\114\345\146\065\321\267\233\214\042\223\164\323\113\260
END
CKA_ISSUER MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004
\003\014\033\110\101\122\111\103\101\040\124\114\123\040\105\103
\103\040\122\157\157\164\040\103\101\040\062\060\062\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\147\164\235\215\167\330\073\152\333\042\364\377\131\342
\277\316
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "HARICA Client RSA Root CA 2021"
#
# Issuer: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Serial Number:55:52:f8:1e:db:1b:24:2c:9e:bb:96:18:cd:02:28:3e
# Subject: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 10:58:46 2021
# Not Valid After : Mon Feb 13 10:58:45 2045
# Fingerprint (SHA-256):
1B:E7:AB:E3:06:86:B1:63:48:AF:D1:C6:1B:68:66:A0:EA:7F:48:21:E6:7D:5E:8A:F9:37:CF:80:11:BC:75:0D
# Fingerprint (SHA1): 46:C6:90:0A:77:3A:B6:BC:F4:65:AD:AC:FC:E3:F7:07:00:6E:DE:6E
```

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client RSA Root CA 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004
\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164
\040\122\123\101\040\122\157\157\164\040\103\101\040\062\060\062
\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004
\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164
\040\122\123\101\040\122\157\157\164\040\103\101\040\062\060\062
\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\125\122\370\036\333\033\044\054\236\273\226\030\315\002
\050\076
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\252\060\202\003\222\240\003\002\001\002\002\020\125
\122\370\036\333\033\044\054\236\273\226\030\315\002\050\076\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\157
\061\013\060\011\006\003\125\004\006\023\002\107\122\061\067\060
\065\006\003\125\004\012\014\056\110\145\154\154\145\156\151\143
\040\101\143\141\144\145\155\151\143\040\141\156\144\040\122\145
\163\145\141\162\143\150\040\111\156\163\164\151\164\165\164\151
\157\156\163\040\103\101\061\047\060\045\006\003\125\004\003\014
\036\110\101\122\111\103\101\040\103\154\151\145\156\164\040\122
\123\101\040\122\157\157\164\040\103\101\040\062\060\062\061\060
\036\027\015\062\061\060\062\061\071\061\060\065\070\064\066\132
\027\015\064\065\060\062\061\063\061\060\065\070\064\065\132\060
\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061\067
\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156\151
\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040\122
\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165\164

\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004\003
\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164\040
\122\123\101\040\122\157\157\164\040\103\101\040\062\060\062\061
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001
\000\201\333\127\102\220\054\164\065\364\370\270\164\031\115\253
\011\132\167\105\201\163\142\260\065\237\370\320\267\063\000\207
\023\266\226\253\016\124\022\060\007\274\233\267\110\327\321\031
\203\256\216\330\251\361\251\000\204\260\214\136\236\350\014\217
\124\151\277\366\324\010\117\046\160\376\030\101\143\032\263\062
\213\100\370\007\253\127\061\360\306\026\166\147\232\264\335\057
\362\321\153\305\320\222\204\221\161\156\017\056\143\351\037\123
\244\335\122\023\314\011\203\051\201\014\305\123\165\104\261\016
\147\123\030\320\303\037\210\113\237\224\044\264\051\274\273\350
\116\375\157\322\025\035\111\334\215\160\362\021\032\040\121\125
\021\272\210\157\304\367\120\171\326\252\061\342\204\075\136\062
\310\167\052\120\161\345\013\057\351\266\352\357\253\012\063\071
\016\375\217\245\147\103\202\216\230\151\011\011\033\100\315\070
\147\107\352\311\354\227\161\022\336\044\365\162\074\321\367\103
\114\046\367\220\262\211\351\105\113\125\075\061\005\172\101\342
\225\272\103\300\027\305\266\205\075\031\215\144\160\363\133\254
\315\237\323\051\165\207\113\225\147\152\246\370\321\335\274\220
\206\211\103\051\251\067\133\365\135\260\046\132\123\102\166\220
\053\317\236\126\154\053\124\317\134\232\145\337\133\213\110\140
\070\174\373\305\013\317\166\004\143\002\063\052\175\365\203\147
\347\372\306\103\375\053\017\324\046\057\167\244\062\301\044\352
\144\235\277\263\070\161\061\104\362\107\270\242\146\101\241\373
\233\173\274\307\106\152\165\277\132\242\214\350\152\104\301\270
\226\265\300\062\010\055\173\164\065\163\262\312\306\376\257\021
\162\030\366\347\310\302\317\245\052\352\173\326\131\350\174\240
\262\152\100\011\151\016\245\226\333\321\000\271\361\210\156\066
\360\210\262\235\361\122\362\303\174\277\060\211\074\012\151\371
\042\244\145\341\233\340\164\306\261\205\227\226\054\256\224\217
\120\246\071\022\037\276\107\362\201\170\323\165\066\236\175\132
\040\227\342\122\256\231\237\306\174\233\146\363\376\330\317\356
\275\227\006\035\055\205\334\076\066\123\226\173\040\272\350\310
\341\255\226\142\076\021\174\263\000\204\236\247\114\161\253\112
\067\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125
\035\016\004\026\004\024\240\326\007\075\136\044\367\173\240\104
\056\044\122\015\031\252\053\004\221\247\060\016\006\003\125\035
\017\001\001\377\004\004\003\002\001\206\060\015\006\011\052\206
\110\206\367\015\001\001\013\005\000\003\202\002\001\000\015\107
\371\011\146\061\122\354\171\356\302\250\362\150\076\355\226\105
\313\072\246\230\143\077\352\053\115\116\003\320\034\202\341\313
\323\345\326\253\133\147\050\274\235\376\014\231\012\200\125\247
\316\033\043\141\015\260\127\360\376\340\312\276\346\220\333\203
\054\276\203\216\364\171\266\376\320\015\102\247\130\037\151\352

\201\365\005\245\376\106\150\353\154\170\311\340\352\347\346\336
\061\305\322\325\054\202\143\050\235\135\250\032\176\210\346\347
\053\361\054\325\320\005\236\334\055\275\067\146\324\004\242\247
\255\277\072\302\250\073\255\377\215\235\063\340\271\232\204\241
\207\037\166\364\202\164\327\016\371\060\110\076\133\210\076\252
\134\153\326\057\014\350\216\163\302\030\221\203\071\266\146\132
\320\037\140\047\135\115\343\366\072\015\146\120\234\170\173\253
\363\023\020\256\017\057\253\350\144\263\030\040\235\106\065\144
\045\163\352\233\020\134\130\065\211\261\106\110\247\364\254\324
\035\236\133\314\251\245\032\023\117\044\120\252\331\033\155\261
\100\373\235\335\130\164\304\302\157\024\162\354\333\065\237\270
\124\165\105\303\246\310\032\050\065\072\256\145\362\251\230\316
\257\133\311\070\214\061\073\177\314\334\226\375\342\133\326\320
\131\364\166\272\013\313\117\203\020\307\100\320\035\140\351\052
\345\110\130\167\014\105\151\276\031\161\004\044\342\343\044\037
\112\310\301\076\231\365\226\230\070\110\045\241\025\260\033\327
\342\204\030\133\366\161\065\232\150\173\100\314\030\134\014\044
\235\324\225\365\231\252\106\352\256\254\277\364\024\031\044\350
\214\354\343\365\274\006\150\212\052\014\005\137\012\227\165\247
\334\176\300\375\327\172\030\337\060\321\070\113\037\260\230\160
\277\314\174\163\360\156\304\061\245\244\227\035\254\277\316\154
\041\112\276\047\043\147\363\006\126\201\012\221\216\266\341\003
\005\063\054\332\064\010\115\116\120\043\255\037\245\305\324\172
\376\352\011\354\247\050\140\213\106\174\265\352\233\335\117\371
\347\153\025\306\210\317\103\333\345\047\334\004\126\156\157\106
\025\361\126\055\350\134\014\163\303\043\201\070\040\313\311\014
\151\317\054\253\073\204\140\063\031\122\375\151\024\063
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "HARICA Client RSA Root CA 2021"
Issuer: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Serial Number:55:52:f8:1e:db:1b:24:2c:9e:bb:96:18:cd:02:28:3e
Subject: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Not Valid Before: Fri Feb 19 10:58:46 2021
Not Valid After : Mon Feb 13 10:58:45 2045
Fingerprint (SHA-256):
1B:E7:AB:E3:06:86:B1:63:48:AF:D1:C6:1B:68:66:A0:EA:7F:48:21:E6:7D:5E:8A:F9:37:CF:80:11:BC:75:0D
Fingerprint (SHA1): 46:C6:90:0A:77:3A:B6:BC:F4:65:AD:AC:FC:E3:F7:07:00:6E:DE:6E
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client RSA Root CA 2021"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\106\306\220\012\167\072\266\274\364\145\255\254\374\343\367\007

\000\156\336\156
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\157\355\134\327\210\314\070\251\334\351\335\331\135\333\330\355
END
CKA_ISSUER MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004
\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164
\040\122\123\101\040\122\157\157\164\040\103\101\040\062\060\062
\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\125\122\370\036\333\033\044\054\236\273\226\030\315\002
\050\076
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "HARICA Client ECC Root CA 2021"
#
Issuer: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Serial Number:31:68:d9:d8:e1:62:57:1e:d2:19:44:88:e6:10:7d:f0
Subject: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Not Valid Before: Fri Feb 19 11:03:34 2021
Not Valid After : Mon Feb 13 11:03:33 2045
Fingerprint (SHA-256):
8D:D4:B5:37:3C:B0:DE:36:76:9C:12:33:92:80:D8:27:46:B3:AA:6C:D4:26:E7:97:A3:1B:AB:E4:27:9C:F0:0B
Fingerprint (SHA1): BE:64:D3:DA:14:4B:D2:6B:CD:AF:8F:DB:A6:A6:72:F8:DE:26:F9:00
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client ECC Root CA 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004
\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164

\040\105\103\103\040\122\157\157\164\040\103\101\040\062\060\062
\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004
\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164
\040\105\103\103\040\122\157\157\164\040\103\101\040\062\060\062
\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\061\150\331\330\341\142\127\036\322\031\104\210\346\020
\175\360
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\132\060\202\001\341\240\003\002\001\002\002\020\061
\150\331\330\341\142\127\036\322\031\104\210\346\020\175\360\060
\012\006\010\052\206\110\316\075\004\003\003\060\157\061\013\060
\011\006\003\125\004\006\023\002\107\122\061\067\060\065\006\003
\125\004\012\014\056\110\145\154\154\145\156\151\143\040\101\143
\141\144\145\155\151\143\040\141\156\144\040\122\145\163\145\141
\162\143\150\040\111\156\163\164\151\164\165\164\151\157\156\163
\040\103\101\061\047\060\045\006\003\125\004\003\014\036\110\101
\122\111\103\101\040\103\154\151\145\156\164\040\105\103\103\040
\122\157\157\164\040\103\101\040\062\060\062\061\060\036\027\015
\062\061\060\062\061\071\061\061\060\063\063\064\132\027\015\064
\065\060\062\061\063\061\061\060\063\063\063\132\060\157\061\013
\060\011\006\003\125\004\006\023\002\107\122\061\067\060\065\006
\003\125\004\012\014\056\110\145\154\154\145\156\151\143\040\101
\143\141\144\145\155\151\143\040\141\156\144\040\122\145\163\145
\141\162\143\150\040\111\156\163\164\151\164\165\164\151\157\156
\163\040\103\101\061\047\060\045\006\003\125\004\003\014\036\110
\101\122\111\103\101\040\103\154\151\145\156\164\040\105\103\103
\040\122\157\157\164\040\103\101\040\062\060\062\061\060\166\060
\020\006\007\052\206\110\316\075\002\001\006\005\053\201\004\000
\042\003\142\000\004\007\030\255\225\226\224\320\134\017\202\367
\052\100\372\002\311\311\075\066\246\243\004\152\301\155\225\001
\210\140\022\124\154\134\242\053\156\023\072\210\225\014\034\046
\206\066\112\211\031\267\030\336\073\350\250\120\037\312\337\133
\277\111\200\025\333\343\060\341\035\132\307\052\212\001\007\376
\155\054\064\357\050\050\227\274\301\371\127\206\225\213\065\317
\236\132\321\150\225\243\102\060\100\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035
\016\004\026\004\024\122\010\322\276\062\201\045\375\365\032\227

\354\116\137\032\273\123\315\220\255\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\001\206\060\012\006\010\052\206\110
\316\075\004\003\003\003\147\000\060\144\002\060\114\061\105\106
\117\250\346\276\303\167\262\032\030\113\055\210\173\130\346\253
\224\153\104\003\260\027\377\337\202\163\104\121\054\375\223\035
\006\173\024\322\211\354\100\014\357\041\001\056\002\060\057\311
\056\132\154\054\035\331\225\340\236\260\271\134\122\174\366\370
\070\312\056\361\324\035\362\242\111\242\225\370\301\130\136\117
\376\163\012\357\061\260\253\043\130\023\214\213\336\073
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "HARICA Client ECC Root CA 2021"
Issuer: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Serial Number:31:68:d9:d8:e1:62:57:1e:d2:19:44:88:e6:10:7d:f0
Subject: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Not Valid Before: Fri Feb 19 11:03:34 2021
Not Valid After : Mon Feb 13 11:03:33 2045
Fingerprint (SHA-256):
8D:D4:B5:37:3C:B0:DE:36:76:9C:12:33:92:80:D8:27:46:B3:AA:6C:D4:26:E7:97:A3:1B:AB:E4:27:9C:F0:0B
Fingerprint (SHA1): BE:64:D3:DA:14:4B:D2:6B:CD:AF:8F:DB:A6:A6:72:F8:DE:26:F9:00
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client ECC Root CA 2021"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\276\144\323\332\024\113\322\153\315\257\217\333\246\246\162\370
\336\046\371\000
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\255\270\120\246\251\202\172\154\075\032\252\244\322\143\244\104
END
CKA_ISSUER MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004
\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164
\040\105\103\103\040\122\157\157\164\040\103\101\040\062\060\062
\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\061\150\331\330\341\142\127\036\322\031\104\210\346\020
\175\360

END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Autoridad de Certificacion Firmaprofesional CIF A62634068"
#
Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
Serial Number:1b:70:e9:d2:ff:ae:6c:71
Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
Not Valid Before: Tue Sep 23 15:22:07 2014
Not Valid After : Mon May 05 15:22:07 2036
Fingerprint (SHA-256):
57:DE:05:83:EF:D2:B2:6E:03:61:DA:99:DA:9D:F4:64:8D:EF:7E:E8:44:1C:3B:72:8A:FA:9B:CD:E0:F9:B2:6A
Fingerprint (SHA1): 0B:BE:C2:27:22:49:CB:39:AA:DB:35:5C:53:E3:8C:AE:78:FF:B6:FE
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151
\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064
\060\066\070
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151
\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064
\060\066\070
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\033\160\351\322\377\256\154\161
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\024\060\202\003\374\240\003\002\001\002\002\010\033
\160\351\322\377\256\154\161\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\121\061\013\060\011\006\003\125\004
\006\023\002\105\123\061\102\060\100\006\003\125\004\003\014\071

\101\165\164\157\162\151\144\141\144\040\144\145\040\103\145\162
\164\151\146\151\143\141\143\151\157\156\040\106\151\162\155\141
\160\162\157\146\145\163\151\157\156\141\154\040\103\111\106\040
\101\066\062\066\063\064\060\066\070\060\036\027\015\061\064\060
\071\062\063\061\065\062\062\060\067\132\027\015\063\066\060\065
\060\065\061\065\062\062\060\067\132\060\121\061\013\060\011\006
\003\125\004\006\023\002\105\123\061\102\060\100\006\003\125\004
\003\014\071\101\165\164\157\162\151\144\141\144\040\144\145\040
\103\145\162\164\151\146\151\143\141\143\151\157\156\040\106\151
\162\155\141\160\162\157\146\145\163\151\157\156\141\154\040\103
\111\106\040\101\066\062\066\063\064\060\066\070\060\202\002\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\002\017\000\060\202\002\012\002\202\002\001\000\312\226\153
\216\352\370\373\361\242\065\340\177\114\332\340\303\122\327\175
\266\020\310\002\136\263\103\052\304\117\152\262\312\034\135\050
\232\170\021\032\151\131\127\257\265\040\102\344\213\017\346\337
\133\246\003\222\057\365\021\344\142\327\062\161\070\331\004\014
\161\253\075\121\176\017\007\337\143\005\134\351\277\224\157\301
\051\202\300\264\332\121\260\301\074\273\255\067\112\134\312\361
\113\066\016\044\253\277\303\204\167\375\250\120\364\261\347\306
\057\322\055\131\215\172\012\116\226\151\122\002\252\066\230\354
\374\372\024\203\014\067\037\311\222\067\177\327\201\055\345\304
\271\340\076\064\376\147\364\076\146\321\323\364\100\317\136\142
\064\017\160\006\076\040\030\132\316\367\162\033\045\154\223\164
\024\223\243\163\261\016\252\207\020\043\131\137\040\005\031\107
\355\150\216\222\022\312\135\374\326\053\262\222\074\040\317\341
\137\257\040\276\240\166\177\166\345\354\032\206\141\063\076\347
\173\264\077\240\017\216\242\271\152\157\271\207\046\157\101\154
\210\246\120\375\152\143\013\365\223\026\033\031\217\262\355\233
\233\311\220\365\001\014\337\031\075\017\076\070\043\311\057\217
\014\321\002\376\033\125\326\116\320\215\074\257\117\244\363\376
\257\052\323\005\235\171\010\241\313\127\061\264\234\310\220\262
\147\364\030\026\223\072\374\107\330\321\170\226\061\037\272\053
\014\137\135\231\255\143\211\132\044\040\166\330\337\375\253\116
\246\042\252\235\136\346\047\212\175\150\051\243\347\212\270\332
\021\273\027\055\231\235\023\044\106\367\305\342\330\237\216\177
\307\217\164\155\132\262\350\162\365\254\356\044\020\255\057\024
\332\377\055\232\106\161\107\276\102\337\273\001\333\364\177\323
\050\217\061\131\133\323\311\002\246\264\122\312\156\227\373\103
\305\010\046\157\212\364\273\375\237\050\252\015\325\105\363\023
\072\035\330\300\170\217\101\147\074\036\224\144\256\173\013\305
\350\331\001\210\071\032\227\206\144\101\325\073\207\014\156\372
\017\306\275\110\024\277\071\115\324\236\101\266\217\226\035\143
\226\223\331\225\006\170\061\150\236\067\006\073\200\211\105\141
\071\043\307\033\104\243\025\345\034\370\222\060\273\002\003\001
\000\001\243\201\357\060\201\354\060\035\006\003\125\035\016\004
\026\004\024\145\315\353\253\065\036\000\076\176\325\164\300\034
\264\163\107\016\032\144\057\060\022\006\003\125\035\023\001\001

\377\004\010\060\006\001\001\377\002\001\001\060\201\246\006\003
\125\035\040\004\201\236\060\201\233\060\201\230\006\004\125\035
\040\000\060\201\217\060\057\006\010\053\006\001\005\005\007\002
\001\026\043\150\164\164\160\072\057\057\167\167\167\056\146\151
\162\155\141\160\162\157\146\145\163\151\157\156\141\154\056\143
\157\155\057\143\160\163\060\134\006\010\053\006\001\005\005\007
\002\002\060\120\036\116\000\120\000\141\000\163\000\145\000\157
\000\040\000\144\000\145\000\040\000\154\000\141\000\040\000\102
\000\157\000\156\000\141\000\156\000\157\000\166\000\141\000\040
\000\064\000\067\000\040\000\102\000\141\000\162\000\143\000\145
\000\154\000\157\000\156\000\141\000\040\000\060\000\070\000\060
\000\061\000\067\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\006\060\015\006\011\052\206\110\206\367\015\001\001
\013\005\000\003\202\002\001\000\164\207\050\002\053\167\037\146
\211\144\355\217\164\056\106\034\273\250\370\370\013\035\203\266
\072\247\350\105\212\007\267\340\076\040\313\341\010\333\023\010
\370\050\241\065\262\200\263\013\121\300\323\126\232\215\063\105
\111\257\111\360\340\075\007\172\105\023\132\377\310\227\330\323
\030\054\175\226\370\335\242\145\103\160\223\220\025\272\220\337
\350\031\260\333\054\212\140\017\267\157\224\007\036\035\246\311
\205\366\275\064\370\100\170\142\020\160\072\276\175\113\071\201
\251\020\324\226\101\273\370\137\034\013\035\010\362\261\260\211
\172\362\367\240\340\304\217\213\170\265\073\130\245\043\216\117
\125\376\066\073\340\014\267\312\052\060\101\040\264\200\315\256
\374\166\146\163\250\256\156\341\174\332\003\350\224\040\346\042
\243\320\037\220\135\040\123\024\046\127\332\124\227\337\026\104
\020\001\036\210\146\217\162\070\223\335\040\267\064\276\327\361
\356\143\216\107\171\050\006\374\363\131\105\045\140\042\063\033
\243\137\250\272\052\332\032\075\315\100\352\214\356\005\025\225
\325\245\054\040\057\247\230\050\356\105\374\361\270\210\000\054
\217\102\332\121\325\234\345\023\150\161\105\103\213\236\013\041
\074\113\134\005\334\032\237\230\216\332\275\042\236\162\315\255
\012\313\314\243\147\233\050\164\304\233\327\032\074\004\130\246
\202\235\255\307\173\157\377\200\226\351\370\215\152\275\030\220
\035\377\111\032\220\122\067\223\057\074\002\135\202\166\013\121
\347\026\307\127\370\070\371\247\315\233\042\124\357\143\260\025
\155\123\145\003\112\136\112\240\262\247\216\111\000\131\070\325
\307\364\200\144\365\156\225\120\270\021\176\025\160\070\112\260
\177\320\304\062\160\300\031\377\311\070\055\024\054\146\364\102
\104\346\125\166\033\200\025\127\377\300\247\247\252\071\252\330
\323\160\320\056\272\353\224\152\372\137\064\206\347\142\265\375
\212\360\060\205\224\311\257\044\002\057\157\326\335\147\376\343
\260\125\117\004\230\117\244\101\126\342\223\320\152\350\326\363
\373\145\340\316\165\304\061\131\014\356\202\310\014\140\063\112
\031\272\204\147\047\017\274\102\135\275\044\124\015\354\035\160
\006\137\244\274\372\040\174\125
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

```
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Autoridad de Certificacion Firmaprofesional CIF A62634068"
# Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Serial Number:1b:70:e9:d2:ff:ae:6c:71
# Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Not Valid Before: Tue Sep 23 15:22:07 2014
# Not Valid After : Mon May 05 15:22:07 2036
# Fingerprint (SHA-256):
57:DE:05:83:EF:D2:B2:6E:03:61:DA:99:DA:9D:F4:64:8D:EF:7E:E8:44:1C:3B:72:8A:FA:9B:CD:E0:F9:B2:6A
# Fingerprint (SHA1): 0B:BE:C2:27:22:49:CB:39:AA:DB:35:5C:53:E3:8C:AE:78:FF:B6:FE
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\013\276\302\047\042\111\313\071\252\333\065\134\123\343\214\256
\170\377\266\376
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\116\156\233\124\114\312\267\372\110\344\220\261\025\113\034\243
END
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151
\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064
\060\066\070
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\033\160\351\322\377\256\154\161
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "vTrus ECC Root CA"
#
# Issuer: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Serial Number:6e:6a:bc:59:aa:53:be:98:39:67:a2:d2:6b:a4:3b:e6:6d:1c:d6:da
# Subject: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Not Valid Before: Tue Jul 31 07:26:44 2018
# Not Valid After : Fri Jul 31 07:26:44 2043
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# Fingerprint (SHA-256):
30:FB:BA:2C:32:23:8E:2A:98:54:7A:F9:79:31:E5:50:42:8B:9B:3F:1C:8E:EB:66:33:DC:FA:86:C5:B2:7D:D3
# Fingerprint (SHA1): F6:9C:DB:B0:FC:F6:02:13:B6:52:32:A6:A3:91:3F:16:70:DA:C3:E1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "vTrus ECC Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103
\150\151\156\141\040\103\157\056\054\114\164\144\056\061\032\060
\030\006\003\125\004\003\023\021\166\124\162\165\163\040\105\103
\103\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103
\150\151\156\141\040\103\157\056\054\114\164\144\056\061\032\060
\030\006\003\125\004\003\023\021\166\124\162\165\163\040\105\103
\103\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\156\152\274\131\252\123\276\230\071\147\242\322\153\244
\073\346\155\034\326\332
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\017\060\202\001\225\240\003\002\001\002\002\024\156
\152\274\131\252\123\276\230\071\147\242\322\153\244\073\346\155
\034\326\332\060\012\006\010\052\206\110\316\075\004\003\003\060
\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061\034
\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103\150
\151\156\141\040\103\157\056\054\114\164\144\056\061\032\060\030
\006\003\125\004\003\023\021\166\124\162\165\163\040\105\103\103
\040\122\157\157\164\040\103\101\060\036\027\015\061\070\060\067
\063\061\060\067\062\066\064\064\132\027\015\064\063\060\067\063
\061\060\067\062\066\064\064\132\060\107\061\013\060\011\006\003
\125\004\006\023\002\103\116\061\034\060\032\006\003\125\004\012
\023\023\151\124\162\165\163\103\150\151\156\141\040\103\157\056
\054\114\164\144\056\061\032\060\030\006\003\125\004\003\023\021
\166\124\162\165\163\040\105\103\103\040\122\157\157\164\040\103
\101\060\166\060\020\006\007\052\206\110\316\075\002\001\006\005
\053\201\004\000\042\003\142\000\004\145\120\112\256\214\171\226
\112\252\034\010\303\243\242\315\376\131\126\101\167\375\046\224
\102\273\035\315\010\333\163\262\133\165\363\317\234\116\202\364
\277\370\141\046\205\154\326\205\133\162\160\322\375\333\142\264
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\337\123\213\275\261\104\130\142\102\011\307\372\177\133\020\347
\376\100\375\300\330\303\053\062\347\160\246\267\246\040\125\035
\173\200\135\113\217\147\114\361\020\243\102\060\100\060\035\006
\003\125\035\016\004\026\004\024\230\071\315\276\330\262\214\367
\262\253\341\255\044\257\173\174\241\333\037\317\060\017\006\003
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\012\006
\010\052\206\110\316\075\004\003\003\003\150\000\060\145\002\060
\127\235\335\126\361\307\343\351\270\111\120\153\233\151\303\157
\354\303\175\045\344\127\225\023\100\233\122\323\073\363\100\031
\274\046\307\055\006\236\265\173\066\237\365\045\324\143\153\000
\002\061\000\351\323\306\236\126\232\052\314\241\332\077\310\146
\053\323\130\234\040\205\372\253\221\212\160\160\021\070\140\144
\013\142\011\221\130\000\371\115\373\064\150\332\011\255\041\006
\030\224\316
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "vTrus ECC Root CA"
Issuer: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
Serial Number:6e:6a:bc:59:aa:53:be:98:39:67:a2:d2:6b:a4:3b:e6:6d:1c:d6:da
Subject: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
Not Valid Before: Tue Jul 31 07:26:44 2018
Not Valid After : Fri Jul 31 07:26:44 2043
Fingerprint (SHA-256):
30:FB:BA:2C:32:23:8E:2A:98:54:7A:F9:79:31:E5:50:42:8B:9B:3F:1C:8E:EB:66:33:DC:FA:86:C5:B2:7D:D3
Fingerprint (SHA1): F6:9C:DB:B0:FC:F6:02:13:B6:52:32:A6:A3:91:3F:16:70:DA:C3:E1
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "vTrus ECC Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\366\234\333\260\374\366\002\023\266\122\062\246\243\221\077\026
\160\332\303\341
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\336\113\301\365\122\214\233\103\341\076\217\125\124\027\215\205
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103
\150\151\156\141\040\103\157\056\054\114\164\144\056\061\032\060
\030\006\003\125\004\003\023\021\166\124\162\165\163\040\105\103
\103\040\122\157\157\164\040\103\101
END

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CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\156\152\274\131\252\123\276\230\071\147\242\322\153\244
\073\346\155\034\326\332
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "vTrus Root CA"
#
# Issuer: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Serial Number:43:e3:71:13:d8:b3:59:14:5d:b7:ce:8c:fd:35:fd:6f:bc:05:8d:45
# Subject: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Not Valid Before: Tue Jul 31 07:24:05 2018
# Not Valid After : Fri Jul 31 07:24:05 2043
# Fingerprint (SHA-256):
8A:71:DE:65:59:33:6F:42:6C:26:E5:38:80:D0:0D:88:A1:8D:A4:C6:A9:1F:0D:CB:61:94:E2:06:C5:C9:63:87
# Fingerprint (SHA1): 84:1A:69:FB:F5:CD:1A:25:34:13:3D:E3:F8:FC:B8:99:D0:C9:14:B7
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "vTrus Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\103\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103
\150\151\156\141\040\103\157\056\054\114\164\144\056\061\026\060
\024\006\003\125\004\003\023\015\166\124\162\165\163\040\122\157
\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\103\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103
\150\151\156\141\040\103\157\056\054\114\164\144\056\061\026\060
\024\006\003\125\004\003\023\015\166\124\162\165\163\040\122\157
\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\103\343\161\023\330\263\131\024\135\267\316\214\375\065
\375\157\274\005\215\105
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\126\060\202\003\076\240\003\002\001\002\002\024\103
\343\161\023\330\263\131\024\135\267\316\214\375\065\375\157\274
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\005\215\105\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\103\061\013\060\011\006\003\125\004\006\023\002\103
\116\061\034\060\032\006\003\125\004\012\023\023\151\124\162\165
\163\103\150\151\156\141\040\103\157\056\054\114\164\144\056\061
\026\060\024\006\003\125\004\003\023\015\166\124\162\165\163\040
\122\157\157\164\040\103\101\060\036\027\015\061\070\060\067\063
\061\060\067\062\064\060\065\132\027\015\064\063\060\067\063\061
\060\067\062\064\060\065\132\060\103\061\013\060\011\006\003\125
\004\006\023\002\103\116\061\034\060\032\006\003\125\004\012\023
\023\151\124\162\165\163\103\150\151\156\141\040\103\157\056\054
\114\164\144\056\061\026\060\024\006\003\125\004\003\023\015\166
\124\162\165\163\040\122\157\157\164\040\103\101\060\202\002\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\002\017\000\060\202\002\012\002\202\002\001\000\275\125\174
\141\323\270\035\004\142\005\240\256\154\267\160\264\101\352\113
\003\136\020\077\220\132\034\213\073\260\146\213\154\110\246\034
\042\272\325\100\222\356\063\262\043\131\311\216\274\130\332\213
\236\320\031\362\057\131\306\214\143\132\272\237\243\013\260\263
\232\134\272\021\270\022\351\014\273\317\156\154\200\207\051\024
\003\054\215\044\232\310\144\203\265\152\254\023\054\063\361\237
\334\054\141\074\032\077\160\125\233\255\000\122\177\317\004\271
\376\066\372\234\300\026\256\142\376\226\114\103\176\125\024\276
\032\263\322\155\302\257\166\146\225\153\052\260\224\167\205\136
\004\017\142\035\143\165\367\153\347\313\133\232\160\354\076\147
\005\360\376\007\010\200\317\050\333\005\306\024\047\057\206\175
\360\047\336\377\346\176\063\110\347\013\036\130\321\047\053\123
\016\127\112\145\327\373\242\200\140\374\114\274\065\123\001\152
\227\162\202\257\361\035\160\350\234\365\357\136\302\154\307\107
\176\132\224\205\046\115\073\272\353\114\350\260\011\302\145\302
\235\235\011\233\116\265\227\005\254\365\006\240\367\066\005\176
\364\220\262\153\304\264\371\144\352\351\032\012\310\015\250\355
\047\311\324\347\263\271\253\202\042\220\047\075\052\350\174\220
\357\274\117\375\342\012\044\247\336\145\044\244\135\352\300\166
\060\323\167\120\370\015\004\233\224\066\001\163\312\006\130\246
\323\073\334\372\004\106\023\125\212\311\104\107\270\121\071\032
\056\350\064\342\171\313\131\112\012\177\274\246\357\037\003\147
\152\131\053\045\142\223\331\123\031\146\074\047\142\051\206\115
\244\153\356\377\324\116\272\325\264\342\216\110\132\000\031\011
\361\005\331\316\221\261\367\353\351\071\117\366\157\004\103\232
\125\365\076\005\024\275\277\263\131\264\330\216\063\204\243\220
\122\252\263\002\225\140\371\014\114\150\371\356\325\027\015\370
\161\127\265\045\344\051\356\145\135\257\321\356\074\027\013\132
\103\305\245\206\352\044\236\342\005\007\334\064\102\022\221\326
\071\164\256\114\101\202\333\362\246\110\321\263\233\363\063\252
\363\246\300\305\116\365\364\235\166\143\346\002\306\042\113\301
\225\077\120\144\054\124\345\266\360\074\051\317\127\002\003\001
\000\001\243\102\060\100\060\035\006\003\125\035\016\004\026\004
\024\124\142\160\143\361\165\204\103\130\216\321\026\040\261\306

\254\032\274\366\211\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\015\006\011\052\206\110\206\367\015
\001\001\013\005\000\003\202\002\001\000\051\272\222\111\247\255
\360\361\160\303\344\227\360\237\251\045\325\153\236\064\376\346
\032\144\366\072\153\122\262\020\170\032\237\114\332\212\332\354
\034\067\122\340\102\113\373\154\166\312\044\013\071\022\025\235
\237\021\055\374\171\144\334\340\340\365\335\340\127\311\245\262
\166\160\120\244\376\267\012\160\325\240\064\361\165\327\115\111
\272\021\321\263\330\354\202\377\353\016\304\277\144\055\175\143
\156\027\170\354\135\174\210\310\353\216\127\166\331\131\004\372
\274\122\037\105\254\360\172\200\354\354\157\166\256\221\333\020
\216\004\334\222\337\240\366\346\256\111\323\301\154\022\033\314
\051\252\371\010\245\342\067\024\312\261\270\146\357\032\202\344
\360\370\361\247\026\151\267\333\251\141\074\237\365\061\313\344
\000\106\302\057\164\261\261\327\201\356\250\046\225\274\210\257
\114\065\007\052\002\312\170\024\155\107\053\100\126\351\313\052
\140\241\147\003\240\316\214\274\260\162\147\304\061\316\333\064
\345\045\003\140\045\173\161\230\344\300\033\053\137\164\102\322
\113\305\131\010\007\207\276\305\303\177\347\226\331\341\334\050
\227\326\217\005\343\365\233\116\312\035\120\107\005\123\260\312
\071\347\205\240\211\301\005\073\001\067\323\077\111\342\167\353
\043\310\210\146\073\075\071\166\041\106\361\354\137\043\270\353
\242\146\165\164\301\100\367\330\150\232\223\342\055\251\056\275
\034\243\036\310\164\306\244\055\172\040\253\073\270\260\106\375
\157\335\137\122\125\165\142\360\227\240\174\327\070\375\045\337
\315\240\233\020\317\213\270\070\136\136\305\264\246\002\066\241
\036\137\034\317\342\226\235\051\252\375\230\256\122\341\363\101
\122\373\251\056\162\226\237\047\343\252\163\175\370\032\043\146
\173\073\253\145\260\062\001\113\025\076\075\242\117\014\053\065
\242\306\331\147\022\065\060\315\166\056\026\263\231\236\115\117
\116\055\073\064\103\341\232\016\015\244\146\227\272\322\034\112
\114\054\052\213\213\201\117\161\032\251\335\134\173\173\010\305
\000\015\067\100\343\174\173\124\137\057\205\137\166\366\367\247
\260\034\127\126\301\162\350\255\242\257\215\063\111\272\037\212
\334\346\164\174\140\206\157\207\227\173
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "vTrus Root CA"
Issuer: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.",C=CN
Serial Number:43:e3:71:13:d8:b3:59:14:5d:b7:ce:8c:fd:35:fd:6f:bc:05:8d:45
Subject: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.",C=CN
Not Valid Before: Tue Jul 31 07:24:05 2018
Not Valid After : Fri Jul 31 07:24:05 2043
Fingerprint (SHA-256):

8A:71:DE:65:59:33:6F:42:6C:26:E5:38:80:D0:0D:88:A1:8D:A4:C6:A9:1F:0D:CB:61:94:E2:06:C5:C9:63:87
Fingerprint (SHA1): 84:1A:69:FB:F5:CD:1A:25:34:13:3D:E3:F8:FC:B8:99:D0:C9:14:B7
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "vTrus Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\204\032\151\373\365\315\032\045\064\023\075\343\370\374\270\231
\320\311\024\267
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\270\311\067\337\372\153\061\204\144\305\352\021\152\033\165\374
END
CKA_ISSUER MULTILINE_OCTAL
\060\103\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103
\150\151\156\141\040\103\157\056\054\114\164\144\056\061\026\060
\024\006\003\125\004\003\023\015\166\124\162\165\163\040\122\157
\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\103\343\161\023\330\263\131\024\135\267\316\214\375\065
\375\157\274\005\215\105
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "ISRG Root X2"
#
Issuer: CN=ISRG Root X2,O=Internet Security Research Group,C=US
Serial Number:41:d2:9d:d1:72:ea:ee:a7:80:c1:2c:6c:e9:2f:87:52
Subject: CN=ISRG Root X2,O=Internet Security Research Group,C=US
Not Valid Before: Fri Sep 04 00:00:00 2020
Not Valid After : Mon Sep 17 16:00:00 2040
Fingerprint (SHA-256):
69:72:9B:8E:15:A8:6E:FC:17:7A:57:AF:B7:17:1D:FC:64:AD:D2:8C:2F:CA:8C:F1:50:7E:34:45:3C:CB:14:70
Fingerprint (SHA1): BD:B1:B9:3C:D5:97:8D:45:C6:26:14:55:F8:DB:95:C7:5A:D1:53:AF
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\101\322\235\321\162\352\356\247\200\301\054\154\351\057
\207\122
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\033\060\202\001\241\240\003\002\001\002\002\020\101
\322\235\321\162\352\356\247\200\301\054\154\351\057\207\122\060
\012\006\010\052\206\110\316\075\004\003\003\060\117\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\051\060\047\006\003
\125\004\012\023\040\111\156\164\145\162\156\145\164\040\123\145
\143\165\162\151\164\171\040\122\145\163\145\141\162\143\150\040
\107\162\157\165\160\061\025\060\023\006\003\125\004\003\023\014
\111\123\122\107\040\122\157\157\164\040\130\062\060\036\027\015
\062\060\060\071\060\064\060\060\060\060\060\060\132\027\015\064
\060\060\071\061\067\061\066\060\060\060\060\132\060\117\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\051\060\047\006
\003\125\004\012\023\040\111\156\164\145\162\156\145\164\040\123
\145\143\165\162\151\164\171\040\122\145\163\145\141\162\143\150
\040\107\162\157\165\160\061\025\060\023\006\003\125\004\003\023
\014\111\123\122\107\040\122\157\157\164\040\130\062\060\166\060
\020\006\007\052\206\110\316\075\002\001\006\005\053\201\004\000
\042\003\142\000\004\315\233\325\237\200\203\012\354\011\112\363
\026\112\076\134\317\167\254\336\147\005\015\035\007\266\334\026
\373\132\213\024\333\342\161\140\304\272\105\225\021\211\216\352
\006\337\367\052\026\034\244\271\305\305\062\340\003\340\036\202
\030\070\213\327\105\330\012\152\156\346\000\167\373\002\121\175
\042\330\012\156\232\133\167\337\360\372\101\354\071\334\165\312
\150\007\014\037\352\243\102\060\100\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\001\006\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035
\016\004\026\004\024\174\102\226\256\336\113\110\073\372\222\370
\236\214\317\155\213\251\162\067\225\060\012\006\010\052\206\110

\316\075\004\003\003\003\150\000\060\145\002\060\173\171\116\106
\120\204\302\104\207\106\033\105\160\377\130\231\336\364\375\244
\322\125\246\040\055\164\326\064\274\101\243\120\137\001\047\126
\264\276\047\165\006\257\022\056\165\230\215\374\002\061\000\213
\365\167\154\324\310\145\252\340\013\054\356\024\235\047\067\244
\371\123\245\121\344\051\203\327\370\220\061\133\102\237\012\365
\376\256\000\150\347\214\111\017\266\157\133\133\025\362\347
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "ISRG Root X2"
Issuer: CN=ISRG Root X2,O=Internet Security Research Group,C=US
Serial Number:41:d2:9d:d1:72:ea:ee:a7:80:c1:2c:6c:e9:2f:87:52
Subject: CN=ISRG Root X2,O=Internet Security Research Group,C=US
Not Valid Before: Fri Sep 04 00:00:00 2020
Not Valid After : Mon Sep 17 16:00:00 2040
Fingerprint (SHA-256):
69:72:9B:8E:15:A8:6E:FC:17:7A:57:AF:B7:17:1D:FC:64:AD:D2:8C:2F:CA:8C:F1:50:7E:34:45:3C:CB:14:70
Fingerprint (SHA1): BD:B1:B9:3C:D5:97:8D:45:C6:26:14:55:F8:DB:95:C7:5A:D1:53:AF
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\275\261\271\074\325\227\215\105\306\046\024\125\370\333\225\307
\132\321\123\257
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\323\236\304\036\043\074\246\337\317\243\176\155\340\024\346\345
END
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\101\322\235\321\162\352\356\247\200\301\054\154\351\057
\207\122
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "HiPKI Root CA - G1"
#
Issuer: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW
Serial Number:2d:dd:ac:ce:62:97:94:a1:43:e8:b0:cd:76:6a:5e:60
Subject: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW
Not Valid Before: Fri Feb 22 09:46:04 2019
Not Valid After : Thu Dec 31 15:59:59 2037
Fingerprint (SHA-256):
F0:15:CE:3C:C2:39:BF:EF:06:4B:E9:F1:D2:C4:17:E1:A0:26:4A:0A:94:BE:1F:0C:8D:12:18:64:EB:69:49:CC
Fingerprint (SHA1): 6A:92:E4:A8:EE:1B:EC:96:45:37:E3:29:57:49:CD:96:E3:E5:D2:60
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HiPKI Root CA - G1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\033\060\031\006\003\125\004\003\014\022\110
\151\120\113\111\040\122\157\157\164\040\103\101\040\055\040\107
\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\033\060\031\006\003\125\004\003\014\022\110
\151\120\113\111\040\122\157\157\164\040\103\101\040\055\040\107
\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\055\335\254\316\142\227\224\241\103\350\260\315\166\152
\136\140
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\152\060\202\003\122\240\003\002\001\002\002\020\055
\335\254\316\142\227\224\241\103\350\260\315\166\152\136\140\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\117
\061\013\060\011\006\003\125\004\006\023\002\124\127\061\043\060
\041\006\003\125\004\012\014\032\103\150\165\156\147\150\167\141
\040\124\145\154\145\143\157\155\040\103\157\056\054\040\114\164
\144\056\061\033\060\031\006\003\125\004\003\014\022\110\151\120

\113\111\040\122\157\157\164\040\103\101\040\055\040\107\061\060
\036\027\015\061\071\060\062\062\062\060\071\064\066\060\064\132
\027\015\063\067\061\062\063\061\061\065\065\071\065\071\132\060
\117\061\013\060\011\006\003\125\004\006\023\002\124\127\061\043
\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150\167
\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040\114
\164\144\056\061\033\060\031\006\003\125\004\003\014\022\110\151
\120\113\111\040\122\157\157\164\040\103\101\040\055\040\107\061
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001
\000\364\036\177\122\163\062\014\163\344\275\023\164\243\324\060
\250\320\256\113\330\266\337\165\107\146\364\174\347\071\004\036
\152\160\040\322\132\107\162\147\125\364\245\350\235\325\036\041
\241\360\147\272\314\041\150\276\104\123\277\215\371\342\334\057
\125\310\067\077\037\244\300\234\263\344\167\134\240\106\376\167
\372\032\240\070\352\355\232\162\336\053\275\224\127\072\272\354
\171\347\137\175\102\144\071\172\046\066\367\044\360\325\057\272
\225\230\021\146\255\227\065\326\165\001\200\340\257\364\204\141
\214\015\036\137\174\207\226\136\101\257\353\207\352\370\135\361
\056\210\005\076\114\042\273\332\037\052\335\122\106\144\071\363
\102\316\331\236\014\263\260\167\227\144\234\300\364\243\056\037
\225\007\260\027\337\060\333\000\030\226\114\241\201\113\335\004
\155\123\243\075\374\007\254\324\305\067\202\353\344\225\010\031
\050\202\322\102\072\243\330\123\354\171\211\140\110\140\310\162
\222\120\334\003\217\203\077\262\102\127\132\333\152\351\021\227
\335\205\050\274\060\114\253\343\302\261\105\104\107\037\340\212
\026\007\226\322\041\017\123\300\355\251\176\324\116\354\233\011
\354\257\102\254\060\326\277\321\020\105\340\246\026\262\245\305
\323\117\163\224\063\161\002\241\152\243\326\063\227\117\041\143
\036\133\217\331\301\136\105\161\167\017\201\135\137\041\232\255
\203\314\372\136\326\215\043\137\033\075\101\257\040\165\146\132
\112\366\237\373\253\030\367\161\300\266\035\061\354\073\040\353
\313\342\270\365\256\222\262\367\341\204\113\362\242\362\223\232
\042\236\323\024\157\066\124\275\037\136\131\025\271\163\250\301
\174\157\173\142\351\026\154\107\132\145\363\016\021\233\106\331
\375\155\334\326\234\300\264\175\245\260\335\077\126\157\241\371
\366\344\022\110\375\006\177\022\127\266\251\043\117\133\003\303
\340\161\052\043\267\367\260\261\073\274\230\275\326\230\250\014
\153\366\216\022\147\246\362\262\130\344\002\011\023\074\251\273
\020\264\322\060\105\361\354\367\000\021\337\145\370\334\053\103
\125\277\026\227\304\017\325\054\141\204\252\162\206\376\346\072
\176\302\077\175\356\374\057\024\076\346\205\335\120\157\267\111
\355\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125
\035\016\004\026\004\024\362\167\027\372\136\250\376\366\075\161
\325\150\272\311\106\014\070\330\257\260\060\016\006\003\125\035
\017\001\001\377\004\004\003\002\001\206\060\015\006\011\052\206
\110\206\367\015\001\001\013\005\000\003\202\002\001\000\120\121

\360\165\334\160\004\343\377\252\165\324\161\242\313\236\217\250
\251\323\257\165\307\124\317\072\034\004\231\042\254\304\021\342
\357\063\112\246\043\035\016\015\107\330\067\307\157\257\064\177
\117\201\153\065\117\351\162\245\061\342\170\347\367\116\224\030
\133\100\175\317\153\041\124\206\346\225\172\373\306\312\352\234
\110\116\127\011\135\057\254\364\245\264\227\063\130\325\254\171
\251\314\137\371\205\372\122\305\215\370\221\024\353\072\015\027
\320\122\302\173\343\302\163\216\106\170\006\070\054\350\134\332
\146\304\364\244\360\126\031\063\051\132\145\222\005\107\106\112
\253\204\303\036\047\241\037\021\222\231\047\165\223\017\274\066
\073\227\127\217\046\133\014\273\234\017\324\156\060\007\324\334
\137\066\150\146\071\203\226\047\046\212\310\304\071\376\232\041
\157\325\162\206\351\177\142\345\227\116\320\044\320\100\260\320
\165\010\216\275\150\356\010\327\156\174\020\160\106\033\174\340
\210\262\236\162\206\231\001\343\277\237\111\031\264\045\276\126
\145\256\027\143\345\036\337\350\377\107\245\277\341\046\005\204
\344\260\300\257\347\010\231\250\014\136\046\200\105\324\370\150
\057\226\217\256\342\112\034\234\026\014\023\157\070\207\366\273
\310\064\137\222\003\121\171\160\246\337\313\365\231\115\171\315
\116\274\127\237\103\116\153\056\053\030\370\152\163\214\272\305
\065\357\071\152\101\036\317\161\250\242\262\206\007\133\072\311
\341\357\077\145\004\200\107\062\104\160\225\116\061\147\152\164
\133\020\105\165\352\260\237\320\346\065\376\116\237\213\314\053
\222\105\133\156\045\140\205\106\315\321\252\260\166\146\223\167
\226\276\203\276\070\266\044\116\046\013\314\355\172\126\032\340
\351\132\306\144\255\114\172\000\110\104\057\271\100\273\023\076
\276\025\170\235\205\201\112\052\127\336\325\031\103\332\333\312
\133\107\206\203\013\077\266\015\166\170\163\171\042\136\261\200
\037\317\276\321\077\126\020\230\053\225\207\241\037\235\144\024
\140\071\054\263\000\125\056\344\365\263\016\127\304\221\101\000
\234\077\350\245\337\352\366\377\310\360\255\155\122\250\027\253
\233\141\374\022\121\065\344\045\375\257\252\152\206\071
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "HiPKI Root CA - G1"
Issuer: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW
Serial Number:2d:dd:ac:ce:62:97:94:a1:43:e8:b0:cd:76:6a:5e:60
Subject: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW
Not Valid Before: Fri Feb 22 09:46:04 2019
Not Valid After : Thu Dec 31 15:59:59 2037
Fingerprint (SHA-256):
F0:15:CE:3C:C2:39:BF:EF:06:4B:E9:F1:D2:C4:17:E1:A0:26:4A:0A:94:BE:1F:0C:8D:12:18:64:EB:69:49:CC
Fingerprint (SHA1): 6A:92:E4:A8:EE:1B:EC:96:45:37:E3:29:57:49:CD:96:E3:E5:D2:60
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HiPKI Root CA - G1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\152\222\344\250\356\033\354\226\105\067\343\051\127\111\315\226
\343\345\322\140
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\151\105\337\026\145\113\350\150\232\217\166\137\377\200\236\323
END
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\033\060\031\006\003\125\004\003\014\022\110
\151\120\113\111\040\122\157\157\164\040\103\101\040\055\040\107
\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\055\335\254\316\142\227\224\241\103\350\260\315\166\152
\136\140
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "GlobalSign ECC Root CA - R4"
#
Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
Serial Number:02:03:e5:7e:f5:3f:93:fd:a5:09:21:b2:a6
Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
Not Valid Before: Tue Nov 13 00:00:00 2012
Not Valid After : Tue Jan 19 03:14:07 2038
Fingerprint (SHA-256):
B0:85:D7:0B:96:4F:19:1A:73:E4:AF:0D:54:AE:7A:0E:07:AA:FD:AF:9B:71:DD:08:62:13:8A:B7:32:5A:24:A2
Fingerprint (SHA1): 6B:A0:B0:98:E1:71:EF:5A:AD:FE:48:15:80:77:10:F4:BD:6F:0B:28
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\103\101\040\055\040\122\064\061\023\060\021\006\003\125\004

\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\103\101\040\055\040\122\064\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\176\365\077\223\375\245\011\041\262\246
END
CKA_VALUE MULTILINE_OCTAL
\060\202\001\334\060\202\001\203\240\003\002\001\002\002\015\002
\003\345\176\365\077\223\375\245\011\041\262\246\060\012\006\010
\052\206\110\316\075\004\003\002\060\120\061\044\060\042\006\003
\125\004\013\023\033\107\154\157\142\141\154\123\151\147\156\040
\105\103\103\040\122\157\157\164\040\103\101\040\055\040\122\064
\061\023\060\021\006\003\125\004\012\023\012\107\154\157\142\141
\154\123\151\147\156\061\023\060\021\006\003\125\004\003\023\012
\107\154\157\142\141\154\123\151\147\156\060\036\027\015\061\062
\061\061\061\063\060\060\060\060\060\060\132\027\015\063\070\060
\061\061\071\060\063\061\064\060\067\132\060\120\061\044\060\042
\006\003\125\004\013\023\033\107\154\157\142\141\154\123\151\147
\156\040\105\103\103\040\122\157\157\164\040\103\101\040\055\040
\122\064\061\023\060\021\006\003\125\004\012\023\012\107\154\157
\142\141\154\123\151\147\156\061\023\060\021\006\003\125\004\003
\023\012\107\154\157\142\141\154\123\151\147\156\060\131\060\023
\006\007\052\206\110\316\075\002\001\006\010\052\206\110\316\075
\003\001\007\003\102\000\004\270\306\171\323\217\154\045\016\237
\056\071\031\034\003\244\256\232\345\071\007\011\026\312\143\261
\271\206\370\212\127\301\127\316\102\372\163\241\367\145\102\377
\036\301\000\262\156\163\016\377\307\041\345\030\244\252\331\161
\077\250\324\271\316\214\035\243\102\060\100\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\206\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003
\125\035\016\004\026\004\024\124\260\173\255\105\270\342\100\177
\373\012\156\373\276\063\311\074\243\204\325\060\012\006\010\052
\206\110\316\075\004\003\002\003\107\000\060\104\002\040\042\117
\164\162\271\140\257\361\346\234\240\026\005\120\137\303\136\073
\156\141\164\357\276\001\304\276\030\110\131\141\202\062\002\040
\046\235\124\143\100\336\067\140\120\317\310\330\355\235\202\256
\067\230\274\243\217\114\114\251\064\053\154\357\373\225\233\046
END

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GlobalSign ECC Root CA - R4"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Serial Number:02:03:e5:7e:f5:3f:93:fd:a5:09:21:b2:a6
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After : Tue Jan 19 03:14:07 2038
# Fingerprint (SHA-256):
B0:85:D7:0B:96:4F:19:1A:73:E4:AF:0D:54:AE:7A:0E:07:AA:FD:AF:9B:71:DD:08:62:13:8A:B7:32:5A:24:A2
# Fingerprint (SHA1): 6B:A0:B0:98:E1:71:EF:5A:AD:FE:48:15:80:77:10:F4:BD:6F:0B:28
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\153\240\260\230\341\161\357\132\255\376\110\025\200\167\020\364
\275\157\013\050
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\046\051\370\155\341\210\277\242\145\177\252\304\315\017\177\374
END
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\103\101\040\055\040\122\064\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\176\365\077\223\375\245\011\041\262\246
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "GTS Root R1"
#
# Issuer: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Serial Number:02:03:e5:93:6f:31:b0:13:49:88:6b:a2:17
# Subject: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
```

Not Valid After : Sun Jun 22 00:00:00 2036
Fingerprint (SHA-256):
D9:47:43:2A:BD:E7:B7:FA:90:FC:2E:6B:59:10:1B:12:80:E0:E1:C7:E4:E4:0F:A3:C6:88:7F:FF:57:A7:F4:CF
Fingerprint (SHA1): E5:8C:1C:C4:91:3B:38:63:4B:E9:10:6E:E3:AD:8E:6B:9D:D9:81:4A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\223\157\061\260\023\111\210\153\242\027
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\127\060\202\003\077\240\003\002\001\002\002\015\002
\003\345\223\157\061\260\023\111\210\153\242\027\060\015\006\011
\052\206\110\206\367\015\001\001\014\005\000\060\107\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\042\060\040\006\003
\125\004\012\023\031\107\157\157\147\154\145\040\124\162\165\163
\164\040\123\145\162\166\151\143\145\163\040\114\114\103\061\024
\060\022\006\003\125\004\003\023\013\107\124\123\040\122\157\157
\164\040\122\061\060\036\027\015\061\066\060\066\062\062\060\060
\060\060\060\060\132\027\015\063\066\060\066\062\062\060\060\060
\060\060\060\132\060\107\061\013\060\011\006\003\125\004\006\023
\002\125\123\061\042\060\040\006\003\125\004\012\023\031\107\157
\157\147\154\145\040\124\162\165\163\164\040\123\145\162\166\151
\143\145\163\040\114\114\103\061\024\060\022\006\003\125\004\003
\023\013\107\124\123\040\122\157\157\164\040\122\061\060\202\002
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000
\003\202\002\017\000\060\202\002\012\002\202\002\001\000\266\021
\002\213\036\343\241\167\233\073\334\277\224\076\267\225\247\100
\074\241\375\202\371\175\062\006\202\161\366\366\214\177\373\350
\333\274\152\056\227\227\243\214\113\371\053\366\261\371\316\204

\035\261\371\305\227\336\357\271\362\243\351\274\022\211\136\247
\252\122\253\370\043\047\313\244\261\234\143\333\327\231\176\360
\012\136\353\150\246\364\306\132\107\015\115\020\063\343\116\261
\023\243\310\030\154\113\354\374\011\220\337\235\144\051\045\043
\007\241\264\322\075\056\140\340\317\322\011\207\273\315\110\360
\115\302\302\172\210\212\273\272\317\131\031\326\257\217\260\007
\260\236\061\361\202\301\300\337\056\246\155\154\031\016\265\330
\176\046\032\105\003\075\260\171\244\224\050\255\017\177\046\345
\250\010\376\226\350\074\150\224\123\356\203\072\210\053\025\226
\011\262\340\172\214\056\165\326\234\353\247\126\144\217\226\117
\150\256\075\227\302\204\217\300\274\100\300\013\134\275\366\207
\263\065\154\254\030\120\177\204\340\114\315\222\323\040\351\063
\274\122\231\257\062\265\051\263\045\052\264\110\371\162\341\312
\144\367\346\202\020\215\350\235\302\212\210\372\070\146\212\374
\143\371\001\371\170\375\173\134\167\372\166\207\372\354\337\261
\016\171\225\127\264\275\046\357\326\001\321\353\026\012\273\216
\013\265\305\305\212\125\253\323\254\352\221\113\051\314\031\244
\062\045\116\052\361\145\104\320\002\316\252\316\111\264\352\237
\174\203\260\100\173\347\103\253\247\154\243\217\175\211\201\372
\114\245\377\325\216\303\316\113\340\265\330\263\216\105\317\166
\300\355\100\053\375\123\017\260\247\325\073\015\261\212\242\003
\336\061\255\314\167\352\157\173\076\326\337\221\042\022\346\276
\372\330\062\374\020\143\024\121\162\336\135\326\026\223\275\051
\150\063\357\072\146\354\007\212\046\337\023\327\127\145\170\047
\336\136\111\024\000\242\000\177\232\250\041\266\251\261\225\260
\245\271\015\026\021\332\307\154\110\074\100\340\176\015\132\315
\126\074\321\227\005\271\313\113\355\071\113\234\304\077\322\125
\023\156\044\260\326\161\372\364\301\272\314\355\033\365\376\201
\101\330\000\230\075\072\310\256\172\230\067\030\005\225\002\003
\001\000\001\243\102\060\100\060\016\006\003\125\035\017\001\001
\377\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004
\026\004\024\344\257\053\046\161\032\053\110\047\205\057\122\146
\054\357\360\211\023\161\076\060\015\006\011\052\206\110\206\367
\015\001\001\014\005\000\003\202\002\001\000\237\252\102\046\333
\013\233\276\377\036\226\222\056\076\242\145\112\152\230\272\042
\313\175\301\072\330\202\012\006\306\366\245\336\300\116\207\146
\171\241\371\246\130\234\252\371\265\346\140\347\340\350\261\036
\102\101\063\013\067\075\316\211\160\025\312\265\044\250\317\153
\265\322\100\041\230\317\042\064\317\073\305\042\204\340\305\016
\212\174\135\210\344\065\044\316\233\076\032\124\036\156\333\262
\207\247\374\363\372\201\125\024\142\012\131\251\042\005\061\076
\202\326\356\333\127\064\274\063\225\323\027\033\350\047\242\213
\173\116\046\032\172\132\144\266\321\254\067\361\375\240\363\070
\354\162\360\021\165\235\313\064\122\215\346\166\153\027\306\337
\206\253\047\216\111\053\165\146\201\020\041\246\352\076\364\256
\045\377\174\025\336\316\214\045\077\312\142\160\012\367\057\011
\146\007\310\077\034\374\360\333\105\060\337\142\210\301\265\017

\235\303\237\112\336\131\131\107\305\207\042\066\346\202\247\355
\012\271\342\007\240\215\173\172\112\074\161\322\342\003\241\037
\062\007\335\033\344\102\316\014\000\105\141\200\265\013\040\131
\051\170\275\371\125\313\143\305\074\114\364\266\377\333\152\137
\061\153\231\236\054\301\153\120\244\327\346\030\024\275\205\077
\147\253\106\237\240\377\102\247\072\177\134\313\135\260\160\035
\053\064\365\324\166\011\014\353\170\114\131\005\363\063\102\303
\141\025\020\033\167\115\316\042\214\324\205\362\105\175\267\123
\352\357\100\132\224\012\134\040\137\116\100\135\142\042\166\337
\377\316\141\275\214\043\170\322\067\002\340\216\336\321\021\067
\211\366\277\355\111\007\142\256\222\354\100\032\257\024\011\331
\320\116\262\242\367\276\356\356\330\377\334\032\055\336\270\066
\161\342\374\171\267\224\045\321\110\163\133\241\065\347\263\231
\147\165\301\031\072\053\107\116\323\102\216\375\061\310\026\146
\332\322\014\074\333\263\216\311\241\015\200\017\173\026\167\024
\277\377\333\011\224\262\223\274\040\130\025\351\333\161\103\363
\336\020\303\000\334\250\052\225\266\302\326\077\220\153\166\333
\154\376\214\274\362\160\065\014\334\231\031\065\334\327\310\106
\143\325\066\161\256\127\373\267\202\155\334
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "GTS Root R1"
Issuer: CN=GTS Root R1,O=Google Trust Services LLC,C=US
Serial Number:02:03:e5:93:6f:31:b0:13:49:88:6b:a2:17
Subject: CN=GTS Root R1,O=Google Trust Services LLC,C=US
Not Valid Before: Wed Jun 22 00:00:00 2016
Not Valid After : Sun Jun 22 00:00:00 2036
Fingerprint (SHA-256):
D9:47:43:2A:BD:E7:B7:FA:90:FC:2E:6B:59:10:1B:12:80:E0:E1:C7:E4:E4:0F:A3:C6:88:7F:FF:57:A7:F4:CF
Fingerprint (SHA1): E5:8C:1C:C4:91:3B:38:63:4B:E9:10:6E:E3:AD:8E:6B:9D:D9:81:4A
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\345\214\034\304\221\073\070\143\113\351\020\156\343\255\216\153
\235\331\201\112
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\005\376\320\277\161\250\243\166\143\332\001\340\330\122\334\100
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145

\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\223\157\061\260\023\111\210\153\242\027
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "GTS Root R2"
#
Issuer: CN=GTS Root R2,O=Google Trust Services LLC,C=US
Serial Number:02:03:e5:ae:c5:8d:04:25:1a:ab:11:25:aa
Subject: CN=GTS Root R2,O=Google Trust Services LLC,C=US
Not Valid Before: Wed Jun 22 00:00:00 2016
Not Valid After : Sun Jun 22 00:00:00 2036
Fingerprint (SHA-256):
8D:25:CD:97:22:9D:BF:70:35:6B:DA:4E:B3:CC:73:40:31:E2:4C:F0:0F:AF:CF:D3:2D:C7:6E:B5:84:1C:7E:A8
Fingerprint (SHA1): 9A:44:49:76:32:DB:DE:FA:D0:BC:FB:5A:7B:17:BD:9E:56:09:24:94
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\256\305\215\004\045\032\253\021\045\252
END
CKA_VALUE MULTILINE_OCTAL

\060\202\005\127\060\202\003\077\240\003\002\001\002\002\015\002
\003\345\256\305\215\004\045\032\253\021\045\252\060\015\006\011
\052\206\110\206\367\015\001\001\014\005\000\060\107\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\042\060\040\006\003
\125\004\012\023\031\107\157\157\147\154\145\040\124\162\165\163
\164\040\123\145\162\166\151\143\145\163\040\114\114\103\061\024
\060\022\006\003\125\004\003\023\013\107\124\123\040\122\157\157
\164\040\122\062\060\036\027\015\061\066\060\066\062\062\060\060
\060\060\060\060\132\027\015\063\066\060\066\062\062\060\060\060
\060\060\060\132\060\107\061\013\060\011\006\003\125\004\006\023
\002\125\123\061\042\060\040\006\003\125\004\012\023\031\107\157
\157\147\154\145\040\124\162\165\163\164\040\123\145\162\166\151
\143\145\163\040\114\114\103\061\024\060\022\006\003\125\004\003
\023\013\107\124\123\040\122\157\157\164\040\122\062\060\202\002
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000
\003\202\002\017\000\060\202\002\012\002\202\002\001\000\316\336
\375\246\373\354\354\024\064\074\007\006\132\154\131\367\031\065
\335\367\301\235\125\252\323\315\073\244\223\162\357\012\372\155
\235\366\360\205\200\133\241\110\122\237\071\305\267\356\050\254
\357\313\166\150\024\271\337\255\001\154\231\037\304\042\035\237
\376\162\167\340\054\133\257\344\004\277\117\162\240\032\064\230
\350\071\150\354\225\045\173\166\241\346\151\271\205\031\275\211
\214\376\255\355\066\352\163\274\377\203\342\313\175\301\322\316
\112\263\215\005\236\213\111\223\337\301\133\320\156\136\360\056
\060\056\202\374\372\274\264\027\012\110\345\210\233\305\233\153
\336\260\312\264\003\360\332\364\220\270\145\144\367\134\114\255
\350\176\146\136\231\327\270\302\076\310\320\023\235\255\356\344
\105\173\211\125\367\212\037\142\122\204\022\263\302\100\227\343
\212\037\107\221\246\164\132\322\370\261\143\050\020\270\263\011
\270\126\167\100\242\046\230\171\306\376\337\045\356\076\345\240
\177\324\141\017\121\113\074\077\214\332\341\160\164\330\302\150
\241\371\301\014\351\241\342\177\273\125\074\166\006\356\152\116
\314\222\210\060\115\232\275\117\013\110\232\204\265\230\243\325
\373\163\301\127\141\335\050\126\165\023\256\207\216\347\014\121
\011\020\165\210\114\274\215\371\173\074\324\042\110\037\052\334
\353\153\273\104\261\313\063\161\062\106\257\255\112\361\214\350
\164\072\254\347\032\042\163\200\322\060\367\045\102\307\042\073
\073\022\255\226\056\306\303\166\007\252\040\267\065\111\127\351
\222\111\350\166\026\162\061\147\053\226\176\212\243\307\224\126
\042\277\152\113\176\001\041\262\043\062\337\344\232\104\155\131
\133\135\365\000\240\034\233\306\170\227\215\220\377\233\310\252
\264\257\021\121\071\136\331\373\147\255\325\133\021\235\062\232
\033\275\325\272\133\245\311\313\045\151\123\125\047\134\340\312
\066\313\210\141\373\036\267\320\313\356\026\373\323\246\114\336
\222\245\324\342\337\365\006\124\336\056\235\113\264\223\060\252
\201\316\335\032\334\121\163\015\117\160\351\345\266\026\041\031
\171\262\346\211\013\165\144\312\325\253\274\011\301\030\241\377
\324\124\241\205\074\375\024\044\003\262\207\323\244\267\002\003

\001\000\001\243\102\060\100\060\016\006\003\125\035\017\001\001
\377\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004
\026\004\024\273\377\312\216\043\237\117\231\312\333\342\150\246
\245\025\047\027\036\331\016\060\015\006\011\052\206\110\206\367
\015\001\001\014\005\000\003\202\002\001\000\037\312\316\335\307
\276\241\237\331\047\114\013\334\027\230\021\152\210\336\075\346
\161\126\162\262\236\032\116\234\325\053\230\044\135\233\153\173
\260\063\202\011\275\337\045\106\352\230\236\266\033\376\203\074
\322\142\141\301\004\355\316\340\305\311\310\023\023\125\347\250
\143\255\214\173\001\376\167\060\341\316\150\233\005\370\022\356
\171\061\240\101\105\065\050\012\161\244\044\117\214\334\074\202
\007\137\146\334\175\020\376\014\141\263\005\225\356\341\256\201
\017\250\370\307\217\115\250\043\002\046\153\035\203\122\125\316
\265\057\000\312\200\100\340\341\164\254\140\365\207\200\235\256
\066\144\221\135\260\150\030\352\212\141\311\167\250\227\304\311
\307\245\374\125\113\363\360\177\271\145\075\047\150\320\314\153
\372\123\235\341\221\032\311\135\032\226\155\062\207\355\003\040
\310\002\316\132\276\331\352\375\262\115\304\057\033\337\137\172
\365\370\213\306\356\061\072\045\121\125\147\215\144\062\173\351
\236\303\202\272\052\055\351\036\264\340\110\006\242\374\147\257
\037\042\002\163\373\040\012\257\235\124\113\241\315\377\140\107
\260\077\135\357\033\126\275\227\041\226\055\012\321\136\235\070
\002\107\154\271\364\366\043\045\270\240\152\232\053\167\010\372
\304\261\050\220\046\130\010\074\342\176\252\327\075\157\272\061
\210\012\005\353\047\265\241\111\356\240\105\124\173\346\047\145
\231\040\041\250\243\274\373\030\226\273\122\157\014\355\203\121
\114\351\131\342\040\140\305\302\145\222\202\214\363\020\037\016
\212\227\276\167\202\155\077\217\035\135\274\111\047\275\314\117
\017\341\316\166\206\004\043\305\300\214\022\133\375\333\204\240
\044\361\110\377\144\174\320\276\134\026\321\357\231\255\300\037
\373\313\256\274\070\042\006\046\144\332\332\227\016\077\050\025
\104\250\117\000\312\360\232\314\317\164\152\264\076\074\353\225
\354\265\323\132\330\201\231\351\103\030\067\353\263\273\321\130
\142\101\363\146\322\217\252\170\225\124\040\303\132\056\164\053
\325\321\276\030\151\300\254\325\244\317\071\272\121\204\003\145
\351\142\300\142\376\330\115\125\226\342\320\021\372\110\064\021
\354\236\355\005\035\344\310\326\035\206\313
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "GTS Root R2"
Issuer: CN=GTS Root R2,O=Google Trust Services LLC,C=US
Serial Number:02:03:e5:ae:c5:8d:04:25:1a:ab:11:25:aa
Subject: CN=GTS Root R2,O=Google Trust Services LLC,C=US
Not Valid Before: Wed Jun 22 00:00:00 2016

Not Valid After : Sun Jun 22 00:00:00 2036
Fingerprint (SHA-256):
8D:25:CD:97:22:9D:BF:70:35:6B:DA:4E:B3:CC:73:40:31:E2:4C:F0:0F:AF:CF:D3:2D:C7:6E:B5:84:1C:7E:A8
Fingerprint (SHA1): 9A:44:49:76:32:DB:DE:FA:D0:BC:FB:5A:7B:17:BD:9E:56:09:24:94
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\232\104\111\166\062\333\336\372\320\274\373\132\173\027\275\236
\126\011\044\224
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\036\071\300\123\346\036\051\202\013\312\122\125\066\135\127\334
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\256\305\215\004\045\032\253\021\045\252
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "GTS Root R3"
#
Issuer: CN=GTS Root R3,O=Google Trust Services LLC,C=US
Serial Number:02:03:e5:b8:82:eb:20:f8:25:27:6d:3d:66
Subject: CN=GTS Root R3,O=Google Trust Services LLC,C=US
Not Valid Before: Wed Jun 22 00:00:00 2016
Not Valid After : Sun Jun 22 00:00:00 2036
Fingerprint (SHA-256):
34:D8:A7:3E:E2:08:D9:BC:DB:0D:95:65:20:93:4B:4E:40:E6:94:82:59:6E:8B:6F:73:C8:42:6B:01:0A:6F:48
Fingerprint (SHA1): ED:E5:71:80:2B:C8:92:B9:5B:83:3C:D2:32:68:3F:09:CD:A0:1E:46
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\270\202\353\040\370\045\047\155\075\146
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\011\060\202\001\216\240\003\002\001\002\002\015\002
\003\345\270\202\353\040\370\045\047\155\075\146\060\012\006\010
\052\206\110\316\075\004\003\003\060\107\061\013\060\011\006\003
\125\004\006\023\002\125\123\061\042\060\040\006\003\125\004\012
\023\031\107\157\157\147\154\145\040\124\162\165\163\164\040\123
\145\162\166\151\143\145\163\040\114\114\103\061\024\060\022\006
\003\125\004\003\023\013\107\124\123\040\122\157\157\164\040\122
\063\060\036\027\015\061\066\060\066\062\062\060\060\060\060\060
\060\132\027\015\063\066\060\066\062\062\060\060\060\060\060\060
\132\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154
\145\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163
\040\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107
\124\123\040\122\157\157\164\040\122\063\060\166\060\020\006\007
\052\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142
\000\004\037\117\063\207\063\051\212\241\204\336\313\307\041\130
\101\211\352\126\235\053\113\205\306\035\114\047\274\177\046\121
\162\157\342\237\326\243\312\314\105\024\106\213\255\357\176\206
\214\354\261\176\057\377\251\161\235\030\204\105\004\101\125\156
\053\352\046\177\273\220\001\343\113\031\272\344\124\226\105\011
\261\325\154\221\104\255\204\023\216\232\214\015\200\014\062\366
\340\047\243\102\060\100\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026
\004\024\301\361\046\272\240\055\256\205\201\317\323\361\052\022
\275\270\012\147\375\274\060\012\006\010\052\206\110\316\075\004
\003\003\003\151\000\060\146\002\061\000\366\341\040\225\024\173
\124\243\220\026\021\277\204\310\352\157\153\027\236\036\106\230
\040\233\237\323\015\331\254\323\057\315\174\370\133\056\125\273

\277\335\222\367\244\014\334\061\341\242\002\061\000\374\227\146
\146\345\103\026\023\203\335\307\337\057\276\024\070\355\001\316
\261\027\032\021\165\351\275\003\217\046\176\204\345\311\140\246
\225\327\124\131\267\347\021\054\211\324\271\356\027
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "GTS Root R3"
Issuer: CN=GTS Root R3,O=Google Trust Services LLC,C=US
Serial Number:02:03:e5:b8:82:eb:20:f8:25:27:6d:3d:66
Subject: CN=GTS Root R3,O=Google Trust Services LLC,C=US
Not Valid Before: Wed Jun 22 00:00:00 2016
Not Valid After : Sun Jun 22 00:00:00 2036
Fingerprint (SHA-256):
34:D8:A7:3E:E2:08:D9:BC:DB:0D:95:65:20:93:4B:4E:40:E6:94:82:59:6E:8B:6F:73:C8:42:6B:01:0A:6F:48
Fingerprint (SHA1): ED:E5:71:80:2B:C8:92:B9:5B:83:3C:D2:32:68:3F:09:CD:A0:1E:46
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\355\345\161\200\053\310\222\271\133\203\074\322\062\150\077\011
\315\240\036\106
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\076\347\235\130\002\224\106\121\224\345\340\042\112\213\347\163
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\270\202\353\040\370\045\047\155\075\146
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "GTS Root R4"
#

```
# Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Serial Number:02:03:e5:c0:68:ef:63:1a:9c:72:90:50:52
# Subject: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
34:9D:FA:40:58:C5:E2:63:12:3B:39:8A:E7:95:57:3C:4E:13:13:C8:3F:E6:8F:93:55:6C:D5:E8:03:1B:3C:7D
# Fingerprint (SHA1): 77:D3:03:67:B5:E0:0C:15:F6:0C:38:61:DF:7C:E1:3B:92:46:4D:47
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\064
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\300\150\357\143\032\234\162\220\120\122
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\011\060\202\001\216\240\003\002\001\002\002\015\002
\003\345\300\150\357\143\032\234\162\220\120\122\060\012\006\010
\052\206\110\316\075\004\003\003\060\107\061\013\060\011\006\003
\125\004\006\023\002\125\123\061\042\060\040\006\003\125\004\012
\023\031\107\157\157\147\154\145\040\124\162\165\163\164\040\123
\145\162\166\151\143\145\163\040\114\114\103\061\024\060\022\006
\003\125\004\003\023\013\107\124\123\040\122\157\157\164\040\122
\064\060\036\027\015\061\066\060\066\062\062\060\060\060\060\060
\060\132\027\015\063\066\060\066\062\062\060\060\060\060\060\060
\132\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154
\145\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163
\040\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107
\124\123\040\122\157\157\164\040\122\064\060\166\060\020\006\007
\052\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142
```

\000\004\363\164\163\247\150\213\140\256\103\270\065\305\201\060
\173\113\111\235\373\301\141\316\346\336\106\275\153\325\141\030
\065\256\100\335\163\367\211\221\060\132\353\074\356\205\174\242
\100\166\073\251\306\270\107\330\052\347\222\221\152\163\351\261
\162\071\237\051\237\242\230\323\137\136\130\206\145\017\241\204
\145\006\321\334\213\311\307\163\310\214\152\057\345\304\253\321
\035\212\243\102\060\100\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026
\004\024\200\114\326\353\164\377\111\066\243\325\330\374\265\076
\305\152\360\224\035\214\060\012\006\010\052\206\110\316\075\004
\003\003\003\151\000\060\146\002\061\000\350\100\377\203\336\003
\364\237\256\035\172\247\056\271\257\117\366\203\035\016\055\205
\001\035\321\331\152\354\017\302\257\307\136\126\136\134\325\034
\130\042\050\013\367\060\266\057\261\174\002\061\000\360\141\074
\247\364\240\202\343\041\325\204\035\163\206\234\055\257\312\064
\233\361\237\271\043\066\342\274\140\003\235\200\263\232\126\310
\341\342\273\024\171\312\315\041\324\224\265\111\103
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "GTS Root R4"
Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US
Serial Number:02:03:e5:c0:68:ef:63:1a:9c:72:90:50:52
Subject: CN=GTS Root R4,O=Google Trust Services LLC,C=US
Not Valid Before: Wed Jun 22 00:00:00 2016
Not Valid After : Sun Jun 22 00:00:00 2036
Fingerprint (SHA-256):
34:9D:FA:40:58:C5:E2:63:12:3B:39:8A:E7:95:57:3C:4E:13:13:C8:3F:E6:8F:93:55:6C:D5:E8:03:1B:3C:7D
Fingerprint (SHA1): 77:D3:03:67:B5:E0:0C:15:F6:0C:38:61:DF:7C:E1:3B:92:46:4D:47
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\167\323\003\147\265\340\014\025\366\014\070\141\337\174\341\073
\222\106\115\107
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\103\226\203\167\031\115\166\263\235\145\122\344\035\042\245\350
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040

\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\300\150\357\143\032\234\162\220\120\122
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Telia Root CA v2"
#
Issuer: CN=Telia Root CA v2,O=Telia Finland Oyj,C=FI
Serial Number:01:67:5f:27:d6:fe:7a:e3:e4:ac:be:09:5b:05:9e
Subject: CN=Telia Root CA v2,O=Telia Finland Oyj,C=FI
Not Valid Before: Thu Nov 29 11:55:54 2018
Not Valid After : Sun Nov 29 11:55:54 2043
Fingerprint (SHA-256):
24:2B:69:74:2F:CB:1E:5B:2A:BF:98:89:8B:94:57:21:87:54:4E:5B:4D:99:11:78:65:73:62:1F:6A:74:B8:2C
Fingerprint (SHA1): B9:99:CD:D1:73:50:8A:C4:47:05:08:9C:8C:88:FB:BE:A0:2B:40:CD
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Telia Root CA v2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\106\111\061
\032\060\030\006\003\125\004\012\014\021\124\145\154\151\141\040
\106\151\156\154\141\156\144\040\117\171\152\061\031\060\027\006
\003\125\004\003\014\020\124\145\154\151\141\040\122\157\157\164
\040\103\101\040\166\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\106\111\061
\032\060\030\006\003\125\004\012\014\021\124\145\154\151\141\040
\106\151\156\154\141\156\144\040\117\171\152\061\031\060\027\006
\003\125\004\003\014\020\124\145\154\151\141\040\122\157\157\164
\040\103\101\040\166\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\017\001\147\137\047\326\376\172\343\344\254\276\011\133\005
\236
END
CKA_VALUE MULTILINE_OCTAL

\060\202\005\164\060\202\003\134\240\003\002\001\002\002\017\001
\147\137\047\326\376\172\343\344\254\276\011\133\005\236\060\015
\006\011\052\206\110\206\367\015\001\001\013\005\000\060\104\061
\013\060\011\006\003\125\004\006\023\002\106\111\061\032\060\030
\006\003\125\004\012\014\021\124\145\154\151\141\040\106\151\156
\154\141\156\144\040\117\171\152\061\031\060\027\006\003\125\004
\003\014\020\124\145\154\151\141\040\122\157\157\164\040\103\101
\040\166\062\060\036\027\015\061\070\061\061\062\071\061\061\065
\065\065\064\132\027\015\064\063\061\061\062\071\061\061\065\065
\065\064\132\060\104\061\013\060\011\006\003\125\004\006\023\002
\106\111\061\032\060\030\006\003\125\004\012\014\021\124\145\154
\151\141\040\106\151\156\154\141\156\144\040\117\171\152\061\031
\060\027\006\003\125\004\003\014\020\124\145\154\151\141\040\122
\157\157\164\040\103\101\040\166\062\060\202\002\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017
\000\060\202\002\012\002\202\002\001\000\262\320\077\007\274\342
\173\320\153\231\370\342\167\151\347\316\235\244\003\274\202\155
\241\376\201\145\037\114\047\254\216\000\272\026\173\353\060\152
\000\300\263\164\150\176\262\257\307\325\142\263\172\077\120\312
\214\066\104\044\143\322\066\351\014\205\366\103\166\325\114\241
\140\162\147\342\050\063\245\313\061\270\072\042\043\064\270\175
\275\126\042\100\235\352\364\173\003\255\150\374\262\201\117\230
\320\164\352\215\345\175\315\143\303\243\366\336\222\302\130\031
\340\226\273\305\304\251\075\245\164\226\376\257\371\211\252\275
\225\027\124\330\170\104\361\014\167\025\222\340\230\102\247\244
\326\252\040\222\315\301\240\263\226\262\072\204\102\215\175\325
\225\344\326\333\351\142\304\130\263\171\305\214\323\065\063\203
\237\165\241\122\047\141\070\361\131\075\216\120\340\275\171\074
\347\154\226\376\136\331\002\145\264\216\134\320\021\064\337\135
\277\122\247\201\000\303\177\231\105\231\025\325\027\310\012\123
\354\143\363\231\175\314\151\022\206\302\027\360\001\236\277\204
\274\321\122\313\033\222\146\316\244\123\345\241\277\304\333\011
\326\346\211\126\053\310\343\174\336\343\377\211\345\065\156\050
\350\154\013\043\121\251\045\005\353\110\370\335\261\312\372\154
\010\121\357\267\030\154\104\312\046\341\163\306\211\006\201\345
\212\254\260\342\051\306\271\044\263\153\104\021\364\245\103\302
\114\103\345\160\066\214\266\063\127\172\225\056\202\240\364\134
\020\263\141\203\366\002\005\206\056\174\055\154\334\003\106\156
\065\223\325\172\225\057\336\040\330\133\176\224\220\004\152\272
\131\075\004\005\165\235\067\242\016\056\075\353\301\244\122\203
\376\320\153\324\146\216\334\306\351\022\116\035\052\127\252\020
\274\174\136\202\175\246\246\311\362\055\271\365\027\047\255\321
\016\211\124\053\225\372\300\255\035\230\024\170\063\102\206\012
\251\163\265\373\164\015\267\033\060\031\304\132\016\034\047\267
\332\030\320\377\212\310\005\272\361\252\034\242\067\267\346\110
\244\106\054\224\352\250\166\142\107\213\020\123\007\110\127\154
\342\222\115\266\256\005\313\334\301\112\136\217\254\075\031\116
\302\355\140\165\053\333\301\312\102\325\002\003\001\000\001\243

\143\060\141\060\037\006\003\125\035\043\004\030\060\026\200\024
\162\254\344\063\171\252\105\207\366\375\254\035\236\326\307\057
\206\330\044\071\060\035\006\003\125\035\016\004\026\004\024\162
\254\344\063\171\252\105\207\366\375\254\035\236\326\307\057\206
\330\044\071\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\006\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\015\006\011\052\206\110\206\367\015\001\001
\013\005\000\003\202\002\001\000\240\073\131\247\011\224\076\066
\204\322\176\057\071\245\226\227\372\021\255\374\147\363\161\011
\362\262\211\204\147\104\257\271\357\355\226\354\234\144\333\062
\060\157\147\232\254\176\137\262\253\001\066\176\201\372\344\204
\136\322\254\066\340\153\142\305\175\113\016\202\155\322\166\142
\321\376\227\370\237\060\174\030\371\264\122\167\202\035\166\333
\323\035\251\360\301\232\000\275\155\165\330\175\347\372\307\070
\243\234\160\350\106\171\003\257\056\164\333\165\370\156\123\014
\003\310\231\032\211\065\031\074\323\311\124\174\250\360\054\346
\156\007\171\157\152\341\346\352\221\202\151\012\035\303\176\131
\242\236\153\106\025\230\133\323\257\106\035\142\310\316\200\122
\111\021\077\311\004\022\303\023\174\077\073\212\226\333\074\240
\036\012\264\213\124\262\044\147\015\357\202\313\276\074\175\321
\342\177\256\026\326\126\130\271\332\040\261\203\025\241\357\212
\115\062\157\101\057\023\122\202\224\327\032\301\170\242\121\335
\053\160\155\267\032\371\367\260\340\147\227\126\333\174\141\123
\011\003\050\002\100\307\263\330\375\234\160\152\306\050\303\205
\351\342\355\032\223\240\336\113\230\242\204\076\005\167\001\226
\075\373\264\040\017\234\162\002\172\022\057\325\243\272\121\170
\257\052\053\104\145\116\265\375\012\350\301\315\171\207\141\053
\336\200\127\105\277\147\361\233\221\136\245\244\354\131\110\020
\015\070\307\260\372\303\104\155\004\365\170\120\034\222\226\133
\332\365\270\056\272\133\317\345\360\152\235\113\057\130\163\055
\117\055\304\034\076\364\263\077\253\025\016\073\031\101\212\244
\301\127\022\146\161\114\372\123\343\127\353\142\225\011\236\124
\335\321\302\074\127\074\275\070\255\230\144\267\270\003\232\123
\126\140\135\263\330\102\033\134\113\022\212\034\353\353\175\306
\172\151\307\047\177\244\370\213\362\344\224\146\207\113\351\224
\007\011\022\171\212\262\353\164\004\334\316\364\104\131\340\026
\312\305\054\130\327\074\173\317\142\206\152\120\175\065\066\146
\247\373\067\347\050\307\330\320\255\245\151\224\217\350\301\337
\044\370\033\007\061\207\201\330\135\366\350\050\330\112\122\200
\254\023\356\120\024\036\230\307
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "Telia Root CA v2"
Issuer: CN=Telia Root CA v2,O=Telia Finland Oyj,C=FI
Serial Number:01:67:5f:27:d6:fe:7a:e3:e4:ac:be:09:5b:05:9e

```
# Subject: CN=Telia Root CA v2,O=Telia Finland Oyj,C=FI
# Not Valid Before: Thu Nov 29 11:55:54 2018
# Not Valid After : Sun Nov 29 11:55:54 2043
# Fingerprint (SHA-256):
24:2B:69:74:2F:CB:1E:5B:2A:BF:98:89:8B:94:57:21:87:54:4E:5B:4D:99:11:78:65:73:62:1F:6A:74:B8:2C
# Fingerprint (SHA1): B9:99:CD:D1:73:50:8A:C4:47:05:08:9C:8C:88:FB:BE:A0:2B:40:CD
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Telia Root CA v2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\271\231\315\321\163\120\212\304\107\005\010\234\214\210\373\276
\240\053\100\315
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\016\217\254\252\202\337\205\261\364\334\020\034\374\231\331\110
END
CKA_ISSUER MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\106\111\061
\032\060\030\006\003\125\004\012\014\021\124\145\154\151\141\040
\106\151\156\154\141\156\144\040\117\171\152\061\031\060\027\006
\003\125\004\003\014\020\124\145\154\151\141\040\122\157\157\164
\040\103\101\040\166\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\017\001\147\137\047\326\376\172\343\344\254\276\011\133\005
\236
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "D-TRUST BR Root CA 1 2020"
#
# Issuer: CN=D-TRUST BR Root CA 1 2020,O=D-Trust GmbH,C=DE
# Serial Number:7c:c9:8f:2b:84:d7:df:ea:0f:c9:65:9a:d3:4b:4d:96
# Subject: CN=D-TRUST BR Root CA 1 2020,O=D-Trust GmbH,C=DE
# Not Valid Before: Tue Feb 11 09:45:00 2020
# Not Valid After : Sun Feb 11 09:44:59 2035
# Fingerprint (SHA-256):
E5:9A:AA:81:60:09:C2:2B:FF:5B:25:BA:D3:7D:F3:06:F0:49:79:7C:1F:81:D8:5A:B0:89:E6:57:BD:8F:00:44
# Fingerprint (SHA1): 1F:5B:98:F0:E3:B5:F7:74:3C:ED:E6:B0:36:7D:32:CD:F4:09:41:67
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
```

CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST BR Root CA 1 2020"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\042\060\040\006\003\125\004\003\023
\031\104\055\124\122\125\123\124\040\102\122\040\122\157\157\164
\040\103\101\040\061\040\062\060\062\060
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\042\060\040\006\003\125\004\003\023
\031\104\055\124\122\125\123\124\040\102\122\040\122\157\157\164
\040\103\101\040\061\040\062\060\062\060
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\174\311\217\053\204\327\337\352\017\311\145\232\323\113
\115\226
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\333\060\202\002\140\240\003\002\001\002\002\020\174
\311\217\053\204\327\337\352\017\311\145\232\323\113\115\226\060
\012\006\010\052\206\110\316\075\004\003\003\060\110\061\013\060
\011\006\003\125\004\006\023\002\104\105\061\025\060\023\006\003
\125\004\012\023\014\104\055\124\162\165\163\164\040\107\155\142
\110\061\042\060\040\006\003\125\004\003\023\031\104\055\124\122
\125\123\124\040\102\122\040\122\157\157\164\040\103\101\040\061
\040\062\060\062\060\060\036\027\015\062\060\060\062\061\061\060
\071\064\065\060\060\132\027\015\063\065\060\062\061\061\060\071
\064\064\065\071\132\060\110\061\013\060\011\006\003\125\004\006
\023\002\104\105\061\025\060\023\006\003\125\004\012\023\014\104
\055\124\162\165\163\164\040\107\155\142\110\061\042\060\040\006
\003\125\004\003\023\031\104\055\124\122\125\123\124\040\102\122
\040\122\157\157\164\040\103\101\040\061\040\062\060\062\060\060
\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201
\004\000\042\003\142\000\004\306\313\307\050\321\373\204\365\232
\357\102\024\040\341\103\153\156\165\255\374\053\003\204\324\166
\223\045\327\131\073\101\145\153\036\346\064\052\273\164\366\022
\316\350\155\347\253\344\074\116\077\104\010\213\315\026\161\313
\277\222\231\364\244\327\074\120\124\122\220\205\203\170\224\147
\147\243\034\011\031\075\165\064\205\336\355\140\175\307\014\264
\101\122\271\156\345\356\102\243\202\001\015\060\202\001\011\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\035\006\003\125\035\016\004\026\004\024\163\221\020\253\377
\125\263\132\174\011\045\325\262\272\010\240\153\253\037\155\060

\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060
\201\306\006\003\125\035\037\004\201\276\060\201\273\060\076\240
\074\240\072\206\070\150\164\164\160\072\057\057\143\162\154\056
\144\055\164\162\165\163\164\056\156\145\164\057\143\162\154\057
\144\055\164\162\165\163\164\137\142\162\137\162\157\157\164\137
\143\141\137\061\137\062\060\062\060\056\143\162\154\060\171\240
\167\240\165\206\163\154\144\141\160\072\057\057\144\151\162\145
\143\164\157\162\171\056\144\055\164\162\165\163\164\056\156\145
\164\057\103\116\075\104\055\124\122\125\123\124\045\062\060\102
\122\045\062\060\122\157\157\164\045\062\060\103\101\045\062\060
\061\045\062\060\062\060\062\060\054\117\075\104\055\124\162\165
\163\164\045\062\060\107\155\142\110\054\103\075\104\105\077\143
\145\162\164\151\146\151\143\141\164\145\162\145\166\157\143\141
\164\151\157\156\154\151\163\164\060\012\006\010\052\206\110\316
\075\004\003\003\003\151\000\060\146\002\061\000\224\220\055\023
\372\341\143\370\141\143\350\255\205\170\124\221\234\270\223\070
\076\032\101\332\100\026\123\102\010\312\057\216\361\076\201\126
\300\252\330\355\030\304\260\256\364\076\372\046\002\061\000\363
\050\342\306\333\053\231\373\267\121\270\044\243\244\224\172\032
\077\346\066\342\003\127\063\212\060\313\202\307\326\024\021\325
\165\143\133\024\225\234\037\001\317\330\325\162\247\017\073
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "D-TRUST BR Root CA 1 2020"
Issuer: CN=D-TRUST BR Root CA 1 2020,O=D-Trust GmbH,C=DE
Serial Number:7c:c9:8f:2b:84:d7:df:ea:0f:c9:65:9a:d3:4b:4d:96
Subject: CN=D-TRUST BR Root CA 1 2020,O=D-Trust GmbH,C=DE
Not Valid Before: Tue Feb 11 09:45:00 2020
Not Valid After : Sun Feb 11 09:44:59 2035
Fingerprint (SHA-256):
E5:9A:AA:81:60:09:C2:2B:FF:5B:25:BA:D3:7D:F3:06:F0:49:79:7C:1F:81:D8:5A:B0:89:E6:57:BD:8F:00:44
Fingerprint (SHA1): 1F:5B:98:F0:E3:B5:F7:74:3C:ED:E6:B0:36:7D:32:CD:F4:09:41:67
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST BR Root CA 1 2020"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\037\133\230\360\343\265\367\164\074\355\346\260\066\175\062\315
\364\011\101\147
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\265\252\113\325\355\367\343\125\056\217\162\012\363\165\270\355
END
CKA_ISSUER MULTILINE_OCTAL

\060\110\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\042\060\040\006\003\125\004\003\023
\031\104\055\124\122\125\123\124\040\102\122\040\122\157\157\164
\040\103\101\040\061\040\062\060\062\060
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\174\311\217\053\204\327\337\352\017\311\145\232\323\113
\115\226
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "D-TRUST EV Root CA 1 2020"
#
Issuer: CN=D-TRUST EV Root CA 1 2020,O=D-Trust GmbH,C=DE
Serial Number:5f:02:41:d7:7a:87:7c:4c:03:a3:ac:96:8d:fb:ff:d0
Subject: CN=D-TRUST EV Root CA 1 2020,O=D-Trust GmbH,C=DE
Not Valid Before: Tue Feb 11 10:00:00 2020
Not Valid After : Sun Feb 11 09:59:59 2035
Fingerprint (SHA-256):
08:17:0D:1A:A3:64:53:90:1A:2F:95:92:45:E3:47:DB:0C:8D:37:AB:AA:BC:56:B8:1A:A1:00:DC:95:89:70:DB
Fingerprint (SHA1): 61:DB:8C:21:59:69:03:90:D8:7C:9C:12:86:54:CF:9D:3D:F4:DD:07
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST EV Root CA 1 2020"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\042\060\040\006\003\125\004\003\023
\031\104\055\124\122\125\123\124\040\105\126\040\122\157\157\164
\040\103\101\040\061\040\062\060\062\060
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\042\060\040\006\003\125\004\003\023
\031\104\055\124\122\125\123\124\040\105\126\040\122\157\157\164
\040\103\101\040\061\040\062\060\062\060
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\020\137\002\101\327\172\207\174\114\003\243\254\226\215\373
\377\320
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\333\060\202\002\140\240\003\002\001\002\002\020\137
\002\101\327\172\207\174\114\003\243\254\226\215\373\377\320\060
\012\006\010\052\206\110\316\075\004\003\003\060\110\061\013\060
\011\006\003\125\004\006\023\002\104\105\061\025\060\023\006\003
\125\004\012\023\014\104\055\124\162\165\163\164\040\107\155\142
\110\061\042\060\040\006\003\125\004\003\023\031\104\055\124\122
\125\123\124\040\105\126\040\122\157\157\164\040\103\101\040\061
\040\062\060\062\060\060\036\027\015\062\060\060\062\061\061\061
\060\060\060\060\060\132\027\015\063\065\060\062\061\061\060\071
\065\071\065\071\132\060\110\061\013\060\011\006\003\125\004\006
\023\002\104\105\061\025\060\023\006\003\125\004\012\023\014\104
\055\124\162\165\163\164\040\107\155\142\110\061\042\060\040\006
\003\125\004\003\023\031\104\055\124\122\125\123\124\040\105\126
\040\122\157\157\164\040\103\101\040\061\040\062\060\062\060\060
\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201
\004\000\042\003\142\000\004\361\013\335\206\103\040\031\337\227
\205\350\042\112\233\317\235\230\277\264\005\046\311\313\343\246
\322\217\305\236\170\173\061\211\251\211\255\047\074\145\020\202
\374\337\303\235\116\360\063\043\304\322\062\365\034\260\337\063
\027\135\305\360\261\212\371\357\271\267\024\312\051\112\302\017
\251\177\165\145\111\052\060\147\364\144\367\326\032\167\332\303
\302\227\141\102\173\111\255\243\202\001\015\060\202\001\011\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\035\006\003\125\035\016\004\026\004\024\177\020\001\026\067
\072\244\050\344\120\370\244\367\354\153\062\266\376\351\213\060
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060
\201\306\006\003\125\035\037\004\201\276\060\201\273\060\076\240
\074\240\072\206\070\150\164\164\160\072\057\057\143\162\154\056
\144\055\164\162\165\163\164\056\156\145\164\057\143\162\154\057
\144\055\164\162\165\163\164\137\145\166\137\162\157\157\164\137
\143\141\137\061\137\062\060\062\060\056\143\162\154\060\171\240
\167\240\165\206\163\154\144\141\160\072\057\057\144\151\162\145
\143\164\157\162\171\056\144\055\164\162\165\163\164\056\156\145
\164\057\103\116\075\104\055\124\122\125\123\124\045\062\060\105
\126\045\062\060\122\157\157\164\045\062\060\103\101\045\062\060
\061\045\062\060\062\060\062\060\054\117\075\104\055\124\162\165
\163\164\045\062\060\107\155\142\110\054\103\075\104\105\077\143
\145\162\164\151\146\151\143\141\164\145\162\145\166\157\143\141
\164\151\157\156\154\151\163\164\060\012\006\010\052\206\110\316
\075\004\003\003\003\151\000\060\146\002\061\000\312\074\306\052
\165\302\136\165\142\071\066\000\140\132\213\301\223\231\314\331
\333\101\073\073\207\231\027\073\325\314\117\312\042\367\240\200
\313\371\264\261\033\126\365\162\322\374\031\321\002\061\000\221
\367\060\223\077\020\106\053\161\244\320\073\104\233\300\051\002

\005\262\101\167\121\363\171\132\236\216\024\240\116\102\322\133
\201\363\064\152\003\347\042\070\120\133\355\031\117\103\026
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Trust for "D-TRUST EV Root CA 1 2020"
Issuer: CN=D-TRUST EV Root CA 1 2020,O=D-Trust GmbH,C=DE
Serial Number:5f:02:41:d7:7a:87:7c:4c:03:a3:ac:96:8d:fb:ff:d0
Subject: CN=D-TRUST EV Root CA 1 2020,O=D-Trust GmbH,C=DE
Not Valid Before: Tue Feb 11 10:00:00 2020
Not Valid After : Sun Feb 11 09:59:59 2035
Fingerprint (SHA-256):
08:17:0D:1A:A3:64:53:90:1A:2F:95:92:45:E3:47:DB:0C:8D:37:AB:AA:BC:56:B8:1A:A1:00:DC:95:89:70:DB
Fingerprint (SHA1): 61:DB:8C:21:59:69:03:90:D8:7C:9C:12:86:54:CF:9D:3D:F4:DD:07
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST EV Root CA 1 2020"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\141\333\214\041\131\151\003\220\330\174\234\022\206\124\317\235
\075\364\335\007
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\214\055\235\160\237\110\231\021\006\021\373\351\313\060\300\156
END
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\042\060\040\006\003\125\004\003\023
\031\104\055\124\122\125\123\124\040\105\126\040\122\157\157\164
\040\103\101\040\061\040\062\060\062\060
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\137\002\101\327\172\207\174\114\003\243\254\226\215\373
\377\320
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "CAEDICOM Root"
Issuer: C=ES,O=EDICOM,CN=CAEDICOM Root
Serial Number:fb:71:26:58:ad:99:e5

Subject: C=ES,O=EDICOM,CN=CAEDICOM Root
Not Valid Before: Wed May 21 11:06:35 2014
Not Valid After: Sun May 21 10:20:00 2034
Fingerprint (MD5): cd:d5:a1:fe:28:31:9c:13:be:d5:c1:e8:cf:56:f0:76
Fingerprint (SHA1): 55:9b:ba:7b:0f:fe:80:d6:d3:82:9b:1f:d0:7a:a4:d3:22:19:47:90
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CAEDICOM Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\066\061\026\060\024\006\003\125\004\003\014\015\103\101\105
\104\111\103\117\115\040\122\157\157\164\061\017\060\015\006\003
\125\004\012\014\006\105\104\111\103\117\115\061\013\060\011\006
\003\125\004\006\023\002\105\123
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\066\061\026\060\024\006\003\125\004\003\014\015\103\101\105
\104\111\103\117\115\040\122\157\157\164\061\017\060\015\006\003
\125\004\012\014\006\105\104\111\103\117\115\061\013\060\011\006
\003\125\004\006\023\002\105\123
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\000\373\161\046\130\255\231\345
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\121\060\202\003\071\240\003\002\001\002\002\010\000
\373\161\046\130\255\231\345\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\066\061\026\060\024\006\003\125\004
\003\014\015\103\101\105\104\111\103\117\115\040\122\157\157\164
\061\017\060\015\006\003\125\004\012\014\006\105\104\111\103\117
\115\061\013\060\011\006\003\125\004\006\023\002\105\123\060\036
\027\015\061\064\060\065\062\061\061\061\060\066\063\065\132\027
\015\063\064\060\065\062\061\061\060\062\060\060\060\132\060\066
\061\026\060\024\006\003\125\004\003\014\015\103\101\105\104\111
\103\117\115\040\122\157\157\164\061\017\060\015\006\003\125\004
\012\014\006\105\104\111\103\117\115\061\013\060\011\006\003\125
\004\006\023\002\105\123\060\202\002\042\060\015\006\011\052\206
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\107\177\070\070\026\106\247\151\061\021\065\114\341\052\177\377
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\036\032\225\137\332\017\157\134\025\065\304\021\274\137\205\233
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\240\015\030\017\171\136\221\235\344\037\024\234\064\023\031\002
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\150\001\103\144\312\016\206\203\142\320\212\031\246\047\361\053
\173\113\051\041\133\232\314\150\102\020\310\113\117\017\043\262
\210\174\304\134\156\027\160\305\167\257\225\300\045\244\042\012
\323\174\371\330\162\310\320\055\275\247\350\322\055\213\114\241
\156\012\374\264\100\063\273\232\153\374\244\352\311\376\340\064
\210\103\314\306\274\077\165\322\245\251\257\372\227\271\076\267
\316\124\240\115\300\135\056\301\050\330\143\124\162\270\254\132
\365\072\373\040\141\006\072\364\240\053\070\253\314\203\014\111
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\301\240\071\166\213\366\331\002\245\035\341\236\133\007\273\066
\127\112\041\115\371\211\151\264\154\017\327\257\240\025\044\231
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\167\334\246\177\040\124\222\326\143\326\162\236\115\052\266\217
\163\363\031\241\304\260\037\346\064\243\013\000\076\227\111\047
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\243\071\234\061\314\353\340\072\341\325\277\317\307\207\173\140
\377\107\071\327\243\104\326\010\046\133\317\132\124\354\210\323
\216\017\171\074\310\243\117\246\302\216\047\360\336\022\256\136
\031\255\347\042\126\212\130\062\340\371\006\320\251\052\264\065
\233\014\206\046\121\000\224\107\120\374\245\304\045\141\371\130
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\303\116\130\037\257\035\354\067\320\112\371\006\006\201\323\333
\240\226\270\016\221\060\171\346\120\337\210\270\013\251\134\324
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\103\273\242\273\376\225\256\371\304\245\012\210\142\110\170\045
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\244\141\164\347\202\302\104\272\240\321\135\137\274\361\104\016
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\200\267\220\104\247\204\042\227\107\042\336\253\070\067\317\265
\362\034\076\102\160\273\165\266\145\050\153\313\177\202\065\252
\366\363\040\170\050\163\007\226\060\160\245\052\161\134\241\171
\244\026\271\106\075\136\264\000\111\205\211\323\016\337\201\256
\130\215\130\326\341\305\104\170\056\034\040\273\242\107\227\277
\166\024\073\251\050\217\237\013\165\322\241\074\355\053\307\216
\220\241\172\242\231\060\142\374\205\035\065\163\073\363\265\131
\042\033\315\010\261\014\235\165\152\333\205\073\016\207\237\062
\117\222\000\001\001\114\111\150\202\200\101\154\371\375\161\275
\213\364\170\012\140\243\236\261\122\035\300\212\343\236\305\277
\053\031\152\230\247\261\336\025\120\237\252\224\045\217\251\200
\202\247\162\272\111\144\011\047\141\053\156\274\043\050\063\135
\236\156\360\271\275\040\062\214\335\240\013\231\273\264\204\004
\044\165\051\226\367\247\245\027\270\121\005\353\164\255\121\171
\226\374\273\373\337\011\055\010\222\104\316\300\322\263\030\307
\024\042\277\041\361
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "CAEDICOM Root"
Issuer: C=ES,O=EDICOM,CN=CAEDICOM Root
Serial Number:fb:71:26:58:ad:99:e5
Subject: C=ES,O=EDICOM,CN=CAEDICOM Root
Not Valid Before: Wed May 21 11:06:35 2014
Not Valid After: Sun May 21 10:20:00 2034
Fingerprint (MD5): cd:d5:a1:fe:28:31:9c:13:be:d5:c1:e8:cf:56:f0:76
Fingerprint (SHA1): 55:9b:ba:7b:0f:fe:80:d6:d3:82:9b:1f:d0:7a:a4:d3:22:19:47:90
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CAEDICOM Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\125\233\272\173\017\376\200\326\323\202\233\037\320\172\244\323
\042\031\107\220
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\315\325\241\376\050\061\234\023\276\325\301\350\317\126\360\166
END
CKA_ISSUER MULTILINE_OCTAL
\060\066\061\026\060\024\006\003\125\004\003\014\015\103\101\105
\104\111\103\117\115\040\122\157\157\164\061\017\060\015\006\003
\125\004\012\014\006\105\104\111\103\117\115\061\013\060\011\006

\003\125\004\006\023\002\105\123
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\000\373\161\046\130\255\231\345
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "I.CA Root CA/RSA"
Issuer: 2.5.4.5=NTRCZ-26439395,CN=I.CA Root CA/RSA,O=První certifikaní autorita\, a.s.,C=CZ
Serial Number:05:f5:e1:00
Subject: 2.5.4.5=NTRCZ-26439395,CN=I.CA Root CA/RSA,O=První certifikaní autorita\, a.s.,C=CZ
Not Valid Before: Wed May 27 12:20:00 2015
Not Valid After: Sun May 27 12:20:00 2040
Fingerprint (MD5): 34:ba:8d:c4:33:9a:b5:27:ee:bd:5b:7c:7d:82:97:7f
Fingerprint (SHA1): 9b:09:59:89:81:54:08:1b:f6:a9:0e:9b:9e:58:a4:69:0c:9b:a1:04
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "I.CA Root CA/RSA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\160\061\013\060\011\006\003\125\004\006\023\002\103\132\061
\055\060\053\006\003\125\004\012\014\044\120\162\166\156\303\255
\040\143\145\162\164\151\146\151\153\141\304\215\156\303\255\040
\141\165\164\157\162\151\164\141\054\040\141\056\163\056\061\031
\060\027\006\003\125\004\003\014\020\111\056\103\101\040\122\157
\157\164\040\103\101\057\122\123\101\061\027\060\025\006\003\125
\004\005\023\016\116\124\122\103\132\055\062\066\064\063\071\063
\071\065
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\160\061\013\060\011\006\003\125\004\006\023\002\103\132\061
\055\060\053\006\003\125\004\012\014\044\120\162\166\156\303\255
\040\143\145\162\164\151\146\151\153\141\304\215\156\303\255\040
\141\165\164\157\162\151\164\141\054\040\141\056\163\056\061\031
\060\027\006\003\125\004\003\014\020\111\056\103\101\040\122\157
\157\164\040\103\101\057\122\123\101\061\027\060\025\006\003\125
\004\005\023\016\116\124\122\103\132\055\062\066\064\063\071\063
\071\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\005\365\341\000

END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\176\060\202\004\146\240\003\002\001\002\002\004\005
\365\341\000\060\015\006\011\052\206\110\206\367\015\001\001\015
\005\000\060\160\061\013\060\011\006\003\125\004\006\023\002\103
\132\061\055\060\053\006\003\125\004\012\014\044\120\162\166\156
\303\255\040\143\145\162\164\151\146\151\153\141\304\215\156\303
\255\040\141\165\164\157\162\151\164\141\054\040\141\056\163\056
\061\031\060\027\006\003\125\004\003\014\020\111\056\103\101\040
\122\157\157\164\040\103\101\057\122\123\101\061\027\060\025\006
\003\125\004\005\023\016\116\124\122\103\132\055\062\066\064\063
\071\063\071\065\060\036\027\015\061\065\060\065\062\067\061\062
\062\060\060\060\132\027\015\064\060\060\065\062\067\061\062\062
\060\060\060\132\060\160\061\013\060\011\006\003\125\004\006\023
\002\103\132\061\055\060\053\006\003\125\004\012\014\044\120\162
\166\156\303\255\040\143\145\162\164\151\146\151\153\141\304\215
\156\303\255\040\141\165\164\157\162\151\164\141\054\040\141\056
\163\056\061\031\060\027\006\003\125\004\003\014\020\111\056\103
\101\040\122\157\157\164\040\103\101\057\122\123\101\061\027\060
\025\006\003\125\004\005\023\016\116\124\122\103\132\055\062\066
\064\063\071\063\071\065\060\202\002\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202
\002\012\002\202\002\001\000\252\077\125\265\211\257\166\024\006
\052\144\046\224\070\017\137\366\334\004\157\061\105\365\012\375
\073\177\233\162\157\370\100\174\376\135\375\064\231\005\070\224
\111\272\261\360\275\370\231\134\300\121\372\252\015\373\346\161
\025\205\143\021\052\167\006\221\222\006\210\263\374\024\341\231
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\235\100\330\377\052\132\252\350\177\322\145\341\024\107\302\174
\061\375\165\141\012\033\214\200\112\236\264\342\056\024\107\061
\356\274\005\121\256\246\176\317\021\270\305\110\275\005\124\302
\204\344\247\150\153\370\270\372\176\050\311\271\317\344\041\117
\145\311\210\150\240\070\331\165\245\021\073\114\034\156\113\036
\324\206\154\301\255\005\107\323\054\224\015\314\207\055\032\055
\303\326\314\336\204\376\354\153\300\341\043\023\241\323\234\030
\176\340\162\327\134\125\274\114\263\100\061\033\234\100\315\232
\353\200\016\161\256\327\142\156\132\026\117\037\366\145\105\321
\237\172\205\101\031\302\172\072\316\041\222\344\224\160\114\273
\250\101\306\304\273\065\315\365\072\236\143\251\215\240\152\321
\040\104\252\052\266\110\245\162\303\316\236\344\130\110\107\011
\177\002\101\363\015\034\155\011\170\360\327\024\321\240\125\374
\021\326\132\032\000\171\345\073\346\010\313\122\236\244\011\253
\153\347\154\234\052\057\042\175\373\271\120\262\336\120\323\057
\014\162\271\326\263\267\263\010\346\353\173\254\364\264\305\366
\301\062\037\247\031\041\365\334\136\067\252\307\037\123\233\103
\076\346\236\237\332\015\327\126\242\017\123\151\055\125\277\353
\206\170\021\277\246\327\132\115\363\016\223\163\352\377\016\320
\347\217\361\310\263\360\330\030\163\154\245\162\210\361\160\114

\107\124\266\233\132\321\274\046\067\215\030\337\233\153\056\333
\013\045\263\212\262\343\255\006\134\155\273\175\027\003\007\001
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\352\166\364\265\024\070\225\327\325\331\057\077\262\244\046\314
\115\243\134\215\011\363\136\014\205\062\316\126\154\002\010\361
\113\243\253\277\310\124\240\005\205\164\344\165\035\172\274\234
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\060\202\001\032\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\006\060\017\006\003\125\035\023\001\001\377\004\005
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\145\162\164\151\146\151\153\141\164\040\142\171\154\040\166\171
\144\141\156\040\160\157\144\154\145\040\172\141\153\157\156\141
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\151\163\040\161\165\141\154\151\146\151\145\144\040\163\171\163
\164\145\155\040\143\145\162\164\151\146\151\143\141\164\145\040
\167\141\163\040\151\163\163\165\145\144\040\141\143\143\157\162
\144\151\156\147\040\164\157\040\101\143\164\040\116\157\056\040
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\006\011\052\206\110\206\367\015\001\001\015\005\000\003\202\002
\001\000\031\124\002\045\203\333\042\226\213\035\225\236\231\333
\064\316\223\320\037\056\173\134\140\044\152\014\327\205\104\170
\037\034\111\362\024\370\203\124\031\246\235\062\146\270\043\246
\073\206\052\237\066\374\027\374\120\017\140\306\067\375\044\250
\367\171\247\216\277\330\007\025\124\136\122\014\276\370\246\330
\310\101\104\361\366\023\334\203\031\133\257\335\144\367\063\026
\207\017\025\132\361\144\274\324\347\125\077\062\070\211\232\363
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\273\216\234\305\001\344\163\366\272\120\056\346\020\324\274\157
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\053\032\312\240\161\233\261\072\062\274\377\103\030\363\175\057
\365\056\210\351\121\266\361\111\220\114\377\046\307\303\131\335
\164\137\301\120\135\070\134\235\150\125\151\152\264\100\167\311
\137\062\051\110\124\223\301\263\041\043\166\241\125\060\151\043
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\276\246\221\314\200\025\112\057\316\224\256\030\125\111\165\040
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\036\376\367\224\371\141\072\077\065\356\323\140\311\373\110\262

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\236\076\131\150\002\037\126\210\036\257\301\376\017\173\125\215
\227\331\273\246\223\107\272\174\370\107\266\071\327\214\362\100
\154\207\234\014\376\055\335\334\161\374\016\221\010\244\103\075
\212\127\335\335\007\353\247\227\121\320\272\204\231\255\213\171
\376\311\004\220\203\023\053\351\227\015\145\211\362\021\055\067
\216\113\270\273\322\172\071\052\305\334\320\135\015\335\004\047
\230\237\130\375\216\206\273\005\177\360\355\067\222\220\335\234
\275\374
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "I.CA Root CA/RSA"
Issuer: 2.5.4.5=NTRCZ-26439395,CN=I.CA Root CA/RSA,O=První certifikaní autorita\, a.s.,C=CZ
Serial Number:05:f5:e1:00
Subject: 2.5.4.5=NTRCZ-26439395,CN=I.CA Root CA/RSA,O=První certifikaní autorita\, a.s.,C=CZ
Not Valid Before: Wed May 27 12:20:00 2015
Not Valid After: Sun May 27 12:20:00 2040
Fingerprint (MD5): 34:ba:8d:c4:33:9a:b5:27:ee:bd:5b:7c:7d:82:97:7f
Fingerprint (SHA1): 9b:09:59:89:81:54:08:1b:f6:a9:0e:9b:9e:58:a4:69:0c:9b:a1:04
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "I.CA Root CA/RSA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\233\011\131\211\201\124\010\033\366\251\016\233\236\130\244\151
\014\233\241\004
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\064\272\215\304\063\232\265\047\356\275\133\174\175\202\227\177
END
CKA_ISSUER MULTILINE_OCTAL
\060\160\061\013\060\011\006\003\125\004\006\023\002\103\132\061
\055\060\053\006\003\125\004\012\014\044\120\162\166\156\303\255
\040\143\145\162\164\151\146\151\153\141\304\215\156\303\255\040
\141\165\164\157\162\151\164\141\054\040\141\056\163\056\061\031
\060\027\006\003\125\004\003\014\020\111\056\103\101\040\122\157
\157\164\040\103\101\057\122\123\101\061\027\060\025\006\003\125
\004\005\023\016\116\124\122\103\132\055\062\066\064\063\071\063
\071\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\004\005\365\341\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "MULTICERT Root Certification Authority 01"
Issuer: CN=MULTICERT Root Certification Authority 01,O=MULTICERT - Serviços de Certificação Electrónica S.A.,C=PT
Serial Number:54:4d:a5:bc:40:35:56:5a
Subject: CN=MULTICERT Root Certification Authority 01,O=MULTICERT - Serviços de Certificação Electrónica S.A.,C=PT
Not Valid Before: Fri Apr 04 08:59:47 2014
Not Valid After: Mon Apr 04 08:59:47 2039
Fingerprint (MD5): 30:b4:c2:a5:23:02:1d:2e:1b:c0:59:f2:ca:23:99:20
Fingerprint (SHA1): 46:af:7a:31:b5:99:46:0d:46:9d:60:41:14:5b:13:65:1d:f9:17:0a
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "MULTICERT Root Certification Authority 01"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\120\124
\061\102\060\100\006\003\125\004\012\014\071\115\125\114\124\111
\103\105\122\124\040\055\040\123\145\162\166\151\303\247\157\163
\040\144\145\040\103\145\162\164\151\146\151\143\141\303\247\303
\243\157\040\105\154\145\143\164\162\303\263\156\151\143\141\040
\123\056\101\056\061\062\060\060\006\003\125\004\003\014\051\115
\125\114\124\111\103\105\122\124\040\122\157\157\164\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171\040\060\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\120\124
\061\102\060\100\006\003\125\004\012\014\071\115\125\114\124\111
\103\105\122\124\040\055\040\123\145\162\166\151\303\247\157\163
\040\144\145\040\103\145\162\164\151\146\151\143\141\303\247\303
\243\157\040\105\154\145\143\164\162\303\263\156\151\143\141\040
\123\056\101\056\061\062\060\060\006\003\125\004\003\014\051\115
\125\114\124\111\103\105\122\124\040\122\157\157\164\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171\040\060\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\010\124\115\245\274\100\065\126\132
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\361\060\202\003\331\240\003\002\001\002\002\010\124
\115\245\274\100\065\126\132\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\201\205\061\013\060\011\006\003\125
\004\006\023\002\120\124\061\102\060\100\006\003\125\004\012\014
\071\115\125\114\124\111\103\105\122\124\040\055\040\123\145\162
\166\151\303\247\157\163\040\144\145\040\103\145\162\164\151\146
\151\143\141\303\247\303\243\157\040\105\154\145\143\164\162\303
\263\156\151\143\141\040\123\056\101\056\061\062\060\060\006\003
\125\004\003\014\051\115\125\114\124\111\103\105\122\124\040\122
\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\040\060\061\060\036
\027\015\061\064\060\064\060\064\060\070\065\071\064\067\132\027
\015\063\071\060\064\060\064\060\070\065\071\064\067\132\060\201
\205\061\013\060\011\006\003\125\004\006\023\002\120\124\061\102
\060\100\006\003\125\004\012\014\071\115\125\114\124\111\103\105
\122\124\040\055\040\123\145\162\166\151\303\247\157\163\040\144
\145\040\103\145\162\164\151\146\151\143\141\303\247\303\243\157
\040\105\154\145\143\164\162\303\263\156\151\143\141\040\123\056
\101\056\061\062\060\060\006\003\125\004\003\014\051\115\125\114
\124\111\103\105\122\124\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\040\060\061\060\202\002\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202
\002\012\002\202\002\001\000\316\334\077\364\031\156\273\025\151
\206\364\344\315\347\072\160\073\307\232\213\073\203\000\201\133
\373\040\026\132\276\277\130\000\137\051\346\127\157\176\212\054
\025\007\134\032\143\214\102\137\026\335\332\211\204\105\127\027
\226\240\234\241\165\042\101\032\072\375\305\027\221\023\366\276
\142\012\274\156\045\055\133\300\214\020\146\367\342\326\373\334
\110\061\243\032\250\345\115\110\311\242\034\163\376\217\146\100
\143\167\131\007\074\075\024\237\324\367\205\221\320\303\102\365
\033\141\263\167\200\200\052\155\022\002\226\213\121\331\301\157
\047\013\032\007\064\000\377\322\131\114\051\350\327\031\143\330
\221\264\077\374\216\016\045\362\241\022\007\145\312\065\336\253
\376\026\243\010\214\257\177\176\022\364\131\026\005\037\350\255
\164\171\062\367\170\002\266\264\314\253\333\036\070\141\004\031
\172\101\100\332\132\021\144\165\002\375\144\321\326\224\102\017
\042\347\145\315\257\220\016\014\133\061\001\231\121\357\105\214
\175\245\070\332\236\174\113\344\246\350\263\244\202\326\003\064
\056\117\267\121\253\167\070\011\365\006\376\334\146\033\017\077
\372\175\357\214\125\276\340\015\206\225\241\334\275\304\303\010
\321\105\036\362\275\276\160\361\346\046\306\273\010\261\050\245
\302\245\355\210\326\241\300\373\043\361\047\071\314\341\204\007
\031\274\176\366\314\070\377\156\020\273\106\351\043\211\044\201
\377\000\342\121\000\334\122\120\175\023\120\175\026\075\100\215

\323\277\371\212\145\330\142\022\051\167\302\272\302\111\064\117
\212\171\151\311\113\025\363\064\336\317\257\206\342\345\310\251
\126\141\114\006\124\132\305\154\031\352\363\310\104\315\044\032
\166\321\161\000\131\153\331\165\233\316\375\020\376\261\203\242
\245\267\222\206\166\233\112\367\035\334\214\205\246\130\255\212
\246\150\151\027\311\155\033\246\317\047\113\051\054\335\161\102
\032\211\020\345\325\233\022\137\111\213\204\274\330\010\134\373
\317\070\102\257\276\321\156\173\221\252\146\100\305\005\176\053
\320\146\266\307\337\122\376\364\105\155\043\222\041\236\022\001
\220\163\203\342\245\011\015\327\300\370\205\225\036\143\321\077
\065\332\224\321\067\331\365\002\003\001\000\001\243\143\060\141
\060\035\006\003\125\035\016\004\026\004\024\325\071\034\234\133
\157\004\252\242\225\114\357\040\335\051\164\244\305\105\161\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\037\006\003\125\035\043\004\030\060\026\200\024\325\071\034
\234\133\157\004\252\242\225\114\357\040\335\051\164\244\305\105
\161\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\006\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000
\003\202\002\001\000\077\347\137\363\042\026\336\203\236\040\344
\202\347\345\236\167\311\373\053\260\164\015\337\033\164\042\017
\163\020\241\260\027\354\114\014\324\050\160\152\146\162\104\151
\020\223\166\065\317\057\370\217\074\253\031\174\161\222\225\161
\033\067\025\302\033\050\172\357\156\170\070\337\373\217\233\001
\040\334\257\366\326\215\011\146\332\304\106\251\374\225\252\104
\043\022\337\107\300\260\025\354\265\261\236\154\017\221\252\246
\072\345\301\015\140\154\120\100\160\134\134\310\316\263\314\353
\355\252\210\031\126\245\244\310\014\172\345\166\100\147\063\264
\075\226\334\167\313\043\170\371\123\133\317\215\336\261\247\216
\132\172\242\062\143\243\210\327\045\141\132\135\111\072\162\346
\317\252\224\206\154\156\367\202\340\216\147\223\050\305\250\015
\115\357\070\255\171\112\146\215\204\001\010\004\171\363\122\306
\101\347\232\142\006\263\365\022\036\354\331\000\103\323\353\226
\167\164\341\171\371\024\224\204\155\272\124\202\005\214\337\001
\362\060\210\201\254\172\057\213\103\054\166\064\316\065\347\207
\216\116\013\012\245\032\127\261\123\132\277\153\330\276\000\176
\306\371\356\146\061\010\261\337\224\063\204\234\167\117\173\144
\057\357\216\017\131\050\042\313\360\134\076\053\375\065\326\225
\377\003\354\145\122\176\276\362\031\370\173\325\122\054\122\167
\232\221\146\101\160\215\325\111\347\013\110\177\212\256\336\105
\075\335\376\346\322\344\222\303\173\316\060\240\111\156\067\255
\250\323\054\266\075\236\041\333\006\127\342\360\256\006\373\331
\305\021\067\241\173\333\035\021\174\150\166\040\076\365\274\245
\331\146\265\041\255\105\046\306\135\036\002\243\101\304\324\175
\201\031\313\027\227\006\017\346\354\164\000\106\304\165\335\075
\360\103\064\257\246\274\374\366\202\373\317\305\372\263\017\045
\245\077\146\020\326\236\202\245\333\072\023\171\336\215\251\327
\246\215\206\322\057\331\151\015\342\165\170\176\111\137\042\253
\206\160\050\121\263\172\266\240\171\372\324\345\203\247\260\167

\312\333\001\202\357\342\276\115\057\323\300\115\320\343\151\156
\174\046\233\353\246\373\105\357\261\004\212\057\252\041\006\366
\346\324\274\101\043
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "MULTICERT Root Certification Authority 01"
Issuer: CN=MULTICERT Root Certification Authority 01,O=MULTICERT - Serviços de Certificação Electrónica S.A.,C=PT
Serial Number:54:4d:a5:bc:40:35:56:5a
Subject: CN=MULTICERT Root Certification Authority 01,O=MULTICERT - Serviços de Certificação Electrónica S.A.,C=PT
Not Valid Before: Fri Apr 04 08:59:47 2014
Not Valid After: Mon Apr 04 08:59:47 2039
Fingerprint (MD5): 30:b4:c2:a5:23:02:1d:2e:1b:c0:59:f2:ca:23:99:20
Fingerprint (SHA1): 46:af:7a:31:b5:99:46:0d:46:9d:60:41:14:5b:13:65:1d:f9:17:0a
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "MULTICERT Root Certification Authority 01"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\106\257\172\061\265\231\106\015\106\235\140\101\024\133\023\145
\035\371\027\012
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\060\264\302\245\043\002\035\056\033\300\131\362\312\043\231\040
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\120\124
\061\102\060\100\006\003\125\004\012\014\071\115\125\114\124\111
\103\105\122\124\040\055\040\123\145\162\166\151\303\247\157\163
\040\144\145\040\103\145\162\164\151\146\151\143\141\303\247\303
\243\157\040\105\154\145\143\164\162\303\263\156\151\143\141\040
\123\056\101\056\061\062\060\060\006\003\125\004\003\014\051\115
\125\114\124\111\103\105\122\124\040\122\157\157\164\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171\040\060\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\124\115\245\274\100\065\126\132
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Certification Authority of WoSign G2"
Issuer: CN=Certification Authority of WoSign G2,O=WoSign CA Limited,C=CN
Serial Number:6b:25:da:8a:88:9d:7c:bc:0f:05:b3:b1:7a:61:45:44
Subject: CN=Certification Authority of WoSign G2,O=WoSign CA Limited,C=CN
Not Valid Before: Sat Nov 08 00:58:58 2014
Not Valid After: Tue Nov 08 00:58:58 2044
Fingerprint (MD5): c8:1c:7d:19:aa:cb:71:93:f2:50:f8:52:a8:1e:ba:60
Fingerprint (SHA1): fb:ed:dc:90:65:b7:27:20:37:bc:55:0c:9c:56:de:bb:f2:78:94:e1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certification Authority of WoSign G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\032\060\030\006\003\125\004\012\023\021\127\157\123\151\147\156
\040\103\101\040\114\151\155\151\164\145\144\061\055\060\053\006
\003\125\004\003\023\044\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\157\146
\040\127\157\123\151\147\156\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\032\060\030\006\003\125\004\012\023\021\127\157\123\151\147\156
\040\103\101\040\114\151\155\151\164\145\144\061\055\060\053\006
\003\125\004\003\023\044\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\157\146
\040\127\157\123\151\147\156\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\153\045\332\212\210\235\174\274\017\005\263\261\172\141
\105\104
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\174\060\202\002\144\240\003\002\001\002\002\020\153
\045\332\212\210\235\174\274\017\005\263\261\172\141\105\104\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\130
\061\013\060\011\006\003\125\004\006\023\002\103\116\061\032\060
\030\006\003\125\004\012\023\021\127\157\123\151\147\156\040\103
\101\040\114\151\155\151\164\145\144\061\055\060\053\006\003\125
\004\003\023\044\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\040\157\146\040\127
\157\123\151\147\156\040\107\062\060\036\027\015\061\064\061\061

\060\070\060\060\065\070\065\070\132\027\015\064\064\061\061\060
\070\060\060\065\070\065\070\132\060\130\061\013\060\011\006\003
\125\004\006\023\002\103\116\061\032\060\030\006\003\125\004\012
\023\021\127\157\123\151\147\156\040\103\101\040\114\151\155\151
\164\145\144\061\055\060\053\006\003\125\004\003\023\044\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171\040\157\146\040\127\157\123\151\147\156\040
\107\062\060\202\001\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202
\001\001\000\276\305\304\240\042\200\111\117\277\331\207\021\306
\123\341\273\017\275\140\177\257\366\202\016\037\334\260\216\075
\227\340\120\074\217\072\357\146\073\105\007\233\040\370\343\327
\045\206\065\220\026\242\135\157\060\031\010\207\013\177\006\262
\235\142\217\336\257\222\245\140\324\053\200\232\122\077\365\232
\203\351\064\132\313\331\325\142\134\346\016\340\337\006\230\016
\200\174\312\264\035\023\210\153\016\250\044\167\003\320\356\133
\363\312\151\221\065\071\126\305\155\343\367\075\117\136\223\070
\044\312\030\351\044\313\222\003\335\314\034\075\011\160\344\040
\344\361\256\254\273\163\151\243\143\072\017\105\017\241\112\232
\302\321\143\254\313\020\370\075\346\116\050\267\353\304\225\261
\254\375\136\253\372\101\313\135\235\113\334\364\174\166\357\147
\177\000\172\215\322\240\032\134\115\042\341\265\332\335\166\263
\324\166\337\136\270\213\230\310\024\124\314\153\027\222\267\340
\112\277\111\224\141\013\070\220\217\135\044\154\045\173\073\171
\331\342\176\235\255\237\230\241\006\374\170\024\140\127\370\356
\200\167\261\002\003\001\000\001\243\102\060\100\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\006\060\017\006\003
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\035\006
\003\125\035\016\004\026\004\024\372\140\251\353\145\305\335\026
\024\010\116\014\017\215\233\340\367\144\257\147\060\015\006\011
\052\206\110\206\367\015\001\001\013\005\000\003\202\001\001\000
\127\303\172\066\202\234\215\230\342\253\100\252\107\217\307\247
\133\355\174\347\075\146\132\073\061\273\337\363\026\063\221\374
\174\173\245\302\246\146\343\252\260\267\047\230\077\111\327\140
\147\147\077\066\117\112\313\361\024\372\132\207\050\034\355\217
\101\062\306\225\371\175\332\275\173\133\302\260\041\343\217\106
\334\041\070\103\164\114\373\060\370\027\162\301\062\374\310\221
\027\304\314\130\067\116\013\314\132\367\041\065\050\203\154\140
\055\104\353\122\214\120\075\265\154\022\327\372\011\273\154\262
\112\261\305\211\344\374\323\122\330\141\027\376\172\224\204\217
\171\266\063\131\272\017\304\013\342\160\240\113\170\056\372\310
\237\375\257\221\145\012\170\070\025\345\227\027\024\335\371\340
\054\064\370\070\320\204\042\000\300\024\121\030\053\002\334\060
\132\360\350\001\174\065\072\043\257\010\344\257\252\216\050\102
\111\056\360\365\231\064\276\355\017\113\030\341\322\044\074\273
\135\107\267\041\362\215\321\012\231\216\343\156\076\255\160\340
\217\271\312\314\156\201\061\366\173\234\172\171\344\147\161\030
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Certification Authority of WoSign G2"
Issuer: CN=Certification Authority of WoSign G2,O=WoSign CA Limited,C=CN
Serial Number:6b:25:da:8a:88:9d:7c:bc:0f:05:b3:b1:7a:61:45:44
Subject: CN=Certification Authority of WoSign G2,O=WoSign CA Limited,C=CN
Not Valid Before: Sat Nov 08 00:58:58 2014
Not Valid After: Tue Nov 08 00:58:58 2044
Fingerprint (MD5): c8:1c:7d:19:aa:cb:71:93:f2:50:f8:52:a8:1e:ba:60
Fingerprint (SHA1): fb:ed:dc:90:65:b7:27:20:37:bc:55:0c:9c:56:de:bb:f2:78:94:e1
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certification Authority of WoSign G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\373\355\334\220\145\267\047\040\067\274\125\014\234\126\336\273
\362\170\224\341
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\310\034\175\031\252\313\161\223\362\120\370\122\250\036\272\140
END
CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\032\060\030\006\003\125\004\012\023\021\127\157\123\151\147\156
\040\103\101\040\114\151\155\151\164\145\144\061\055\060\053\006
\003\125\004\003\023\044\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\157\146
\040\127\157\123\151\147\156\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\153\045\332\212\210\235\174\274\017\005\263\261\172\141
\105\104
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "CA WoSign ECC Root"
Issuer: CN=CA WoSign ECC Root,O=WoSign CA Limited,C=CN
Serial Number:68:4a:58:70:80:6b:f0:8f:02:fa:f6:de:e8:b0:90:90
Subject: CN=CA WoSign ECC Root,O=WoSign CA Limited,C=CN
Not Valid Before: Sat Nov 08 00:58:58 2014

Not Valid After: Tue Nov 08 00:58:58 2044
Fingerprint (MD5): 80:c6:53:ee:61:82:28:72:f0:ff:21:b9:17:ca:b2:20
Fingerprint (SHA1): d2:7a:d2:be:ed:94:c0:a1:3c:c7:25:21:ea:5d:71:be:81:19:f3:2b
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CA WoSign ECC Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\032\060\030\006\003\125\004\012\023\021\127\157\123\151\147\156
\040\103\101\040\114\151\155\151\164\145\144\061\033\060\031\006
\003\125\004\003\023\022\103\101\040\127\157\123\151\147\156\040
\105\103\103\040\122\157\157\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\032\060\030\006\003\125\004\012\023\021\127\157\123\151\147\156
\040\103\101\040\114\151\155\151\164\145\144\061\033\060\031\006
\003\125\004\003\023\022\103\101\040\127\157\123\151\147\156\040
\105\103\103\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\150\112\130\160\200\153\360\217\002\372\366\336\350\260
\220\220
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\011\060\202\001\217\240\003\002\001\002\002\020\150
\112\130\160\200\153\360\217\002\372\366\336\350\260\220\220\060
\012\006\010\052\206\110\316\075\004\003\003\060\106\061\013\060
\011\006\003\125\004\006\023\002\103\116\061\032\060\030\006\003
\125\004\012\023\021\127\157\123\151\147\156\040\103\101\040\114
\151\155\151\164\145\144\061\033\060\031\006\003\125\004\003\023
\022\103\101\040\127\157\123\151\147\156\040\105\103\103\040\122
\157\157\164\060\036\027\015\061\064\061\061\060\070\060\060\065
\070\065\070\132\027\015\064\064\061\061\060\070\060\060\065\070
\065\070\132\060\106\061\013\060\011\006\003\125\004\006\023\002
\103\116\061\032\060\030\006\003\125\004\012\023\021\127\157\123
\151\147\156\040\103\101\040\114\151\155\151\164\145\144\061\033
\060\031\006\003\125\004\003\023\022\103\101\040\127\157\123\151
\147\156\040\105\103\103\040\122\157\157\164\060\166\060\020\006
\007\052\206\110\316\075\002\001\006\005\053\201\004\000\042\003
\142\000\004\341\375\216\270\103\044\253\226\173\205\302\272\013
\255\215\340\072\343\044\271\322\261\276\210\072\312\277\112\270
\371\357\054\057\257\121\120\074\107\165\154\370\224\267\233\374
\050\036\305\124\314\143\235\026\113\123\301\347\040\253\315\254

\045\322\177\217\302\301\132\202\136\060\213\172\124\316\003\265
\221\177\252\224\320\321\212\110\314\202\005\046\241\325\121\022
\326\173\066\243\102\060\100\060\016\006\003\125\035\017\001\001
\377\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004
\026\004\024\252\375\325\132\243\366\207\213\062\205\375\321\062
\133\200\105\223\363\003\270\060\012\006\010\052\206\110\316\075
\004\003\003\003\150\000\060\145\002\061\000\344\244\204\260\201
\325\075\260\164\254\224\244\350\016\075\000\164\114\241\227\153
\371\015\121\074\241\331\073\364\015\253\251\237\276\116\162\312
\205\324\331\354\265\062\105\030\157\253\255\002\060\175\307\367
\151\143\057\241\341\230\357\023\020\321\171\077\321\376\352\073
\177\336\126\364\220\261\025\021\330\262\042\025\320\057\303\046
\056\153\361\221\262\220\145\364\232\346\220\356\112
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "CA WoSign ECC Root"
Issuer: CN=CA WoSign ECC Root,O=WoSign CA Limited,C=CN
Serial Number:68:4a:58:70:80:6b:f0:8f:02:fa:f6:de:e8:b0:90:90
Subject: CN=CA WoSign ECC Root,O=WoSign CA Limited,C=CN
Not Valid Before: Sat Nov 08 00:58:58 2014
Not Valid After: Tue Nov 08 00:58:58 2044
Fingerprint (MD5): 80:c6:53:ee:61:82:28:72:f0:ff:21:b9:17:ca:b2:20
Fingerprint (SHA1): d2:7a:d2:be:ed:94:c0:a1:3c:c7:25:21:ea:5d:71:be:81:19:f3:2b
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CA WoSign ECC Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\322\172\322\276\355\224\300\241\074\307\045\041\352\135\161\276
\201\031\363\053
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\200\306\123\356\141\202\050\162\360\377\041\271\027\312\262\040
END
CKA_ISSUER MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\032\060\030\006\003\125\004\012\023\021\127\157\123\151\147\156
\040\103\101\040\114\151\155\151\164\145\144\061\033\060\031\006
\003\125\004\003\023\022\103\101\040\127\157\123\151\147\156\040
\105\103\103\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\020\150\112\130\160\200\153\360\217\002\372\366\336\350\260
\220\220
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "CCA India 2015 SPL"
Issuer: CN=CCA India 2015 SPL,O=India PKI,C=IN
Serial Number: 10165 (0x27b5)
Subject: CN=CCA India 2015 SPL,O=India PKI,C=IN
Not Valid Before: Thu Jan 29 11:36:43 2015
Not Valid After: Wed Jan 29 11:36:43 2025
Fingerprint (MD5): 16:da:3e:ac:1d:0a:57:a9:b4:e2:de:d0:93:96:dc:d4
Fingerprint (SHA1): 3b:c6:dc:e0:03:07:bd:67:60:41:eb:d8:59:70:c6:2f:8f:da:51:09
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CCA India 2015 SPL"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\022\060\020\006\003\125\004\012\023\011\111\156\144\151\141\040
\120\113\111\061\033\060\031\006\003\125\004\003\023\022\103\103
\101\040\111\156\144\151\141\040\062\060\061\065\040\123\120\114
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\022\060\020\006\003\125\004\012\023\011\111\156\144\151\141\040
\120\113\111\061\033\060\031\006\003\125\004\003\023\022\103\103
\101\040\111\156\144\151\141\040\062\060\061\065\040\123\120\114
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\047\265
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\053\060\202\002\023\240\003\002\001\002\002\002\047
\265\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000
\060\076\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\022\060\020\006\003\125\004\012\023\011\111\156\144\151\141\040
\120\113\111\061\033\060\031\006\003\125\004\003\023\022\103\103
\101\040\111\156\144\151\141\040\062\060\061\065\040\123\120\114
\060\036\027\015\061\065\060\061\062\071\061\061\063\066\064\063
\132\027\015\062\065\060\061\062\071\061\061\063\066\064\063\132

\060\076\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\022\060\020\006\003\125\004\012\023\011\111\156\144\151\141\040
\120\113\111\061\033\060\031\006\003\125\004\003\023\022\103\103
\101\040\111\156\144\151\141\040\062\060\061\065\040\123\120\114
\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001\001
\000\227\327\066\211\075\067\101\016\221\077\153\040\137\374\072
\176\073\132\135\057\303\014\207\123\074\030\242\310\141\163\015
\010\016\126\036\322\156\140\245\127\145\334\376\317\120\206\017
\132\116\253\142\213\004\312\126\357\341\321\236\256\164\255\252
\372\077\101\130\321\125\160\160\076\105\311\033\200\163\374\010
\210\344\213\162\250\012\265\051\127\260\255\012\221\101\032\234
\137\120\175\254\027\032\045\133\041\360\225\053\347\337\067\254
\064\363\007\260\361\035\301\023\357\173\056\072\305\251\141\220
\262\170\137\124\120\074\263\132\125\143\266\313\020\243\157\373
\015\364\266\357\346\010\336\242\020\277\166\227\177\352\331\226
\321\324\303\163\002\161\264\251\260\254\254\037\027\040\245\107
\106\326\104\002\070\231\276\313\024\170\376\346\137\304\177\335
\157\351\252\107\024\220\021\330\035\200\300\025\324\214\240\231
\343\031\016\012\017\314\032\010\234\324\123\007\000\340\037\111
\277\202\202\114\317\233\330\156\323\324\021\000\022\154\017\175
\140\147\112\214\120\333\362\057\340\271\171\207\203\303\134\302
\071\002\003\001\000\001\243\063\060\061\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\021\006\003\125
\035\016\004\012\004\010\114\021\160\252\217\335\037\007\060\013
\006\003\125\035\017\004\004\003\002\001\006\060\015\006\011\052
\206\110\206\367\015\001\001\013\005\000\003\202\001\001\000\055
\274\214\025\312\064\355\114\050\042\273\341\123\045\113\072\227
\251\355\046\242\244\253\115\373\012\022\156\347\065\346\147\016
\030\201\142\066\245\314\302\337\032\345\150\001\201\116\263\231
\324\107\025\022\235\166\351\241\246\023\035\260\377\175\273\127
\343\357\131\233\310\073\120\151\306\143\072\254\240\301\345\220
\350\144\051\134\110\101\151\067\254\073\273\335\343\125\306\327
\222\015\225\203\260\050\127\302\243\251\226\247\312\336\114\036
\232\377\076\245\056\047\136\333\146\147\047\205\357\253\212\134
\163\174\210\315\107\146\360\235\203\314\204\217\342\051\364\037
\101\157\267\365\041\015\365\224\126\121\343\374\377\023\130\267
\237\003\356\051\237\322\001\260\142\236\224\275\031\206\132\103
\372\152\211\201\260\352\134\030\207\312\200\225\373\355\001\277
\021\032\337\225\024\256\056\342\257\315\221\220\272\263\047\303
\157\020\330\331\016\264\245\164\154\201\267\137\031\314\376\047
\116\263\105\230\130\030\234\127\304\222\162\022\317\247\202\071
\325\341\020\227\012\206\060\105\205\143\250\153\115\232\374
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Microsoft Code Signing Only Certificate
# Trust for "CCA India 2015 SPL"
# Issuer: CN=CCA India 2015 SPL,O=India PKI,C=IN
# Serial Number: 10165 (0x27b5)
# Subject: CN=CCA India 2015 SPL,O=India PKI,C=IN
# Not Valid Before: Thu Jan 29 11:36:43 2015
# Not Valid After: Wed Jan 29 11:36:43 2025
# Fingerprint (MD5): 16:da:3e:ac:1d:0a:57:a9:b4:e2:de:d0:93:96:dc:d4
# Fingerprint (SHA1): 3b:c6:dc:e0:03:07:bd:67:60:41:eb:d8:59:70:c6:2f:8f:da:51:09
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CCA India 2015 SPL"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\073\306\334\340\003\007\275\147\140\101\353\330\131\160\306\057
\217\332\121\011
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\026\332\076\254\035\012\127\251\264\342\336\320\223\226\334\324
END
CKA_ISSUER MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\022\060\020\006\003\125\004\012\023\011\111\156\144\151\141\040
\120\113\111\061\033\060\031\006\003\125\004\003\023\022\103\103
\101\040\111\156\144\151\141\040\062\060\061\065\040\123\120\114
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\047\265
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Swedish Government Root Authority v3"
# Issuer: CN=Swedish Government Root Authority v3,O=Swedish Social Insurance Agency,C=SE
# Serial Number:32:69:a2:bf:40:6b:8d:b4:47:83:64:3c:8b:0d:c9:43
# Subject: CN=Swedish Government Root Authority v3,O=Swedish Social Insurance Agency,C=SE
# Not Valid Before: Tue Sep 29 11:32:32 2015
# Not Valid After: Sat Sep 29 11:42:09 2040
# Fingerprint (MD5): 63:e2:fd:ea:a2:55:6a:70:54:fb:3a:22:e3:34:b1:17
# Fingerprint (SHA1): 74:6f:88:f9:ac:16:3c:53:00:9e:ef:92:0c:40:67:75:6a:15:71:7e
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

CKA_LABEL UTF8 "Swedish Government Root Authority v3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\146\061\013\060\011\006\003\125\004\006\023\002\123\105\061
\050\060\046\006\003\125\004\012\023\037\123\167\145\144\151\163
\150\040\123\157\143\151\141\154\040\111\156\163\165\162\141\156
\143\145\040\101\147\145\156\143\171\061\055\060\053\006\003\125
\004\003\023\044\123\167\145\144\151\163\150\040\107\157\166\145
\162\156\155\145\156\164\040\122\157\157\164\040\101\165\164\150
\157\162\151\164\171\040\166\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
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\050\060\046\006\003\125\004\012\023\037\123\167\145\144\151\163
\150\040\123\157\143\151\141\154\040\111\156\163\165\162\141\156
\143\145\040\101\147\145\156\143\171\061\055\060\053\006\003\125
\004\003\023\044\123\167\145\144\151\163\150\040\107\157\166\145
\162\156\155\145\156\164\040\122\157\157\164\040\101\165\164\150
\157\162\151\164\171\040\166\063
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CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\062\151\242\277\100\153\215\264\107\203\144\074\213\015
\311\103
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CKA_VALUE MULTILINE_OCTAL
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\151\242\277\100\153\215\264\107\203\144\074\213\015\311\103\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\146
\061\013\060\011\006\003\125\004\006\023\002\123\105\061\050\060
\046\006\003\125\004\012\023\037\123\167\145\144\151\163\150\040
\123\157\143\151\141\154\040\111\156\163\165\162\141\156\143\145
\040\101\147\145\156\143\171\061\055\060\053\006\003\125\004\003
\023\044\123\167\145\144\151\163\150\040\107\157\166\145\162\156
\155\145\156\164\040\122\157\157\164\040\101\165\164\150\157\162
\151\164\171\040\166\063\060\036\027\015\061\065\060\071\062\071
\061\061\063\062\063\062\132\027\015\064\060\060\071\062\071\061
\061\064\062\060\071\132\060\146\061\013\060\011\006\003\125\004
\006\023\002\123\105\061\050\060\046\006\003\125\004\012\023\037
\123\167\145\144\151\163\150\040\123\157\143\151\141\154\040\111
\156\163\165\162\141\156\143\145\040\101\147\145\156\143\171\061
\055\060\053\006\003\125\004\003\023\044\123\167\145\144\151\163
\150\040\107\157\166\145\162\156\155\145\156\164\040\122\157\157
\164\040\101\165\164\150\157\162\151\164\171\040\166\063\060\202
\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\272
\036\242\151\033\150\117\134\217\272\364\043\307\136\146\005\170
\205\066\130\243\242\177\147\357\242\014\026\222\244\112\213\340

\240\222\207\125\067\013\304\321\304\320\100\103\227\062\120\117
\354\225\107\267\077\257\103\005\345\204\227\011\357\126\124\347
\103\063\107\375\255\361\072\233\230\244\341\344\121\243\271\254
\214\013\356\045\006\011\362\323\272\065\147\141\214\302\275\046
\313\327\143\314\327\203\063\331\114\342\357\371\033\237\250\313
\015\166\001\055\162\311\042\273\150\221\336\220\017\073\075\264
\102\275\031\175\237\204\134\074\176\102\067\206\261\140\302\110
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\232\224\370\057\241\320\242\056\302\124\132\154\314\314\326\255
\113\107\320\056\207\202\063\250\173\120\071\247\052\054\261\133
\047\012\237\255\365\024\353\374\215\123\262\163\053\124\043\364
\214\227\231\227\373\065\334\314\265\372\063\024\046\215\165\247
\044\246\350\024\056\055\246\200\050\203\232\077\270\312\073\307
\365\030\340\375\354\216\171\373\252\102\154\112\113\026\176\363
\202\003\156\272\347\021\006\245\237\204\053\322\140\155\351\106
\356\101\132\226\271\024\375\034\077\206\022\361\124\046\046\375
\147\200\057\345\250\055\050\056\103\267\144\302\357\344\267\176
\226\334\204\213\047\331\166\075\230\201\123\024\334\102\105\241
\124\147\371\332\030\146\220\012\264\107\220\074\001\345\053\243
\146\357\157\373\062\203\361\063\175\062\041\154\245\105\025\077
\057\363\125\221\110\223\237\045\317\055\074\071\073\122\015\032
\257\307\337\253\157\200\330\220\313\236\161\162\152\102\151\223
\352\222\000\075\111\004\331\243\134\272\105\373\002\020\377\255
\151\164\122\245\070\143\232\146\210\004\262\021\272\023\252\071
\325\203\137\355\145\133\123\310\235\134\262\205\240\170\160\065
\115\134\044\020\244\366\061\052\222\125\101\331\363\027\154\231
\023\130\372\335\050\320\154\023\275\133\207\215\223\203\255\130
\051\126\025\264\130\047\112\233\021\154\240\246\147\105\072\316
\320\330\316\377\220\063\354\132\061\115\017\122\022\373\255\366
\141\137\344\057\157\015\146\060\345\240\117\317\317\375\137\002
\003\001\000\001\243\124\060\122\060\016\006\003\125\035\017\001
\001\377\004\004\003\002\001\006\060\017\006\003\125\035\023\001
\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016
\004\026\004\024\234\274\001\347\253\144\065\365\061\233\215\265
\373\027\231\210\002\313\233\362\060\020\006\011\053\006\001\004
\001\202\067\025\001\004\003\002\001\000\060\015\006\011\052\206
\110\206\367\015\001\001\013\005\000\003\202\002\001\000\207\253
\152\344\347\153\044\122\075\366\042\203\117\123\004\105\062\234
\141\132\026\134\234\104\265\243\321\226\320\100\376\317\146\025
\136\176\100\000\040\025\375\247\252\144\332\247\141\146\150\302
\335\122\161\045\240\152\271\335\300\315\316\206\010\324\074\065
\021\057\175\364\157\322\332\014\227\003\145\227\203\264\076\072
\313\011\164\215\353\005\312\172\351\200\260\267\121\055\042\223
\343\232\031\356\355\227\010\041\203\255\307\012\221\137\304\312
\333\136\257\270\347\214\272\072\111\322\125\003\065\031\031\120
\112\342\206\247\273\170\075\225\375\261\037\106\362\117\146\362
\373\277\205\144\266\012\043\030\222\011\236\111\105\061\266\326
\024\127\236\374\211\105\164\177\071\314\300\152\150\310\317\107

\320\341\036\307\323\057\055\371\054\044\073\374\152\272\224\023
\336\314\162\362\242\035\313\037\237\325\203\167\046\136\176\233
\240\257\151\237\170\333\245\301\156\161\134\110\102\116\053\330
\170\270\325\017\245\077\154\313\217\220\315\107\330\220\031\111
\205\326\154\374\342\253\252\102\277\313\023\227\277\151\104\165
\143\065\055\332\240\307\375\141\367\312\101\075\124\234\364\066
\300\344\156\041\110\237\135\161\142\201\323\362\045\346\131\214
\131\101\046\110\247\343\353\147\152\323\354\064\267\230\367\314
\312\243\066\006\225\347\310\060\131\367\377\311\241\321\344\171
\274\337\023\037\056\331\263\165\321\004\267\043\011\041\314\035
\041\034\047\234\016\053\372\301\207\030\311\372\371\111\203\214
\022\026\373\305\022\316\073\017\102\372\360\005\145\176\250\307
\353\122\112\371\230\136\161\243\254\022\307\050\161\032\132\165
\317\207\312\037\067\050\034\024\235\220\120\157\306\277\112\314
\307\045\317\061\335\133\221\116\166\250\021\325\166\146\331\277
\200\163\142\260\354\303\376\104\274\315\131\023\013\014\055\330
\241\314\252\142\115\124\105\136\244\122\243\214\127\074\024\061
\223\124\316\245\026\124\136\055\102\263\356\145\251\266\235\077
\154\316\141\331\126\313\336\352\240\126\336\155\206\003\372\267
\201\152\214\322\330\363\327\266\300\254\051\204\131\043\016\233
\227\152\346\240\316\325\052\124\030\357\120\230\171\040
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Swedish Government Root Authority v3"
Issuer: CN=Swedish Government Root Authority v3,O=Swedish Social Insurance Agency,C=SE
Serial Number:32:69:a2:bf:40:6b:8d:b4:47:83:64:3c:8b:0d:c9:43
Subject: CN=Swedish Government Root Authority v3,O=Swedish Social Insurance Agency,C=SE
Not Valid Before: Tue Sep 29 11:32:32 2015
Not Valid After: Sat Sep 29 11:42:09 2040
Fingerprint (MD5): 63:e2:fd:ea:a2:55:6a:70:54:fb:3a:22:e3:34:b1:17
Fingerprint (SHA1): 74:6f:88:f9:ac:16:3c:53:00:9e:ef:92:0c:40:67:75:6a:15:71:7e
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Swedish Government Root Authority v3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\164\157\210\371\254\026\074\123\000\236\357\222\014\100\147\165
\152\025\161\176
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\143\342\375\352\242\125\152\160\124\373\072\042\343\064\261\027
END
CKA_ISSUER MULTILINE_OCTAL

\060\146\061\013\060\011\006\003\125\004\006\023\002\123\105\061
\050\060\046\006\003\125\004\012\023\037\123\167\145\144\151\163
\150\040\123\157\143\151\141\154\040\111\156\163\165\162\141\156
\143\145\040\101\147\145\156\143\171\061\055\060\053\006\003\125
\004\003\023\044\123\167\145\144\151\163\150\040\107\157\166\145
\162\156\155\145\156\164\040\122\157\157\164\040\101\165\164\150
\157\162\151\164\171\040\166\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\062\151\242\277\100\153\215\264\107\203\144\074\213\015
\311\103
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Swedish Government Root Authority v2"
Issuer: CN=Swedish Government Root Authority v2,O=Swedish Social Insurance Agency,C=SE
Serial Number:54:12:15:9f:ab:8a:75:93:44:94:ca:77:40:56:2e:ef
Subject: CN=Swedish Government Root Authority v2,O=Swedish Social Insurance Agency,C=SE
Not Valid Before: Tue May 05 11:15:23 2015
Not Valid After: Sat May 05 11:24:19 2040
Fingerprint (MD5): 33:85:e1:95:66:4b:83:50:73:42:c2:e0:da:a0:40:92
Fingerprint (SHA1): 32:f4:42:09:3b:36:d7:03:1b:75:ca:4d:ad:dc:b3:27:fa:a0:2b:9c
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Swedish Government Root Authority v2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\146\061\013\060\011\006\003\125\004\006\023\002\123\105\061
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\150\040\123\157\143\151\141\154\040\111\156\163\165\162\141\156
\143\145\040\101\147\145\156\143\171\061\055\060\053\006\003\125
\004\003\023\044\123\167\145\144\151\163\150\040\107\157\166\145
\162\156\155\145\156\164\040\122\157\157\164\040\101\165\164\150
\157\162\151\164\171\040\166\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
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\150\040\123\157\143\151\141\154\040\111\156\163\165\162\141\156
\143\145\040\101\147\145\156\143\171\061\055\060\053\006\003\125
\004\003\023\044\123\167\145\144\151\163\150\040\107\157\166\145

\162\156\155\145\156\164\040\122\157\157\164\040\101\165\164\150
\157\162\151\164\171\040\166\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
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CKA_VALUE MULTILINE_OCTAL
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\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\146
\061\013\060\011\006\003\125\004\006\023\002\123\105\061\050\060
\046\006\003\125\004\012\023\037\123\167\145\144\151\163\150\040
\123\157\143\151\141\154\040\111\156\163\165\162\141\156\143\145
\040\101\147\145\156\143\171\061\055\060\053\006\003\125\004\003
\023\044\123\167\145\144\151\163\150\040\107\157\166\145\162\156
\155\145\156\164\040\122\157\157\164\040\101\165\164\150\157\162
\151\164\171\040\166\062\060\036\027\015\061\065\060\065\060\065
\061\061\061\065\062\063\132\027\015\064\060\060\065\060\065\061
\061\062\064\061\071\132\060\146\061\013\060\011\006\003\125\004
\006\023\002\123\105\061\050\060\046\006\003\125\004\012\023\037
\123\167\145\144\151\163\150\040\123\157\143\151\141\154\040\111
\156\163\165\162\141\156\143\145\040\101\147\145\156\143\171\061
\055\060\053\006\003\125\004\003\023\044\123\167\145\144\151\163
\150\040\107\157\166\145\162\156\155\145\156\164\040\122\157\157
\164\040\101\165\164\150\157\162\151\164\171\040\166\062\060\202
\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\310
\256\265\103\274\102\105\113\065\143\077\002\113\305\377\333\066
\327\047\305\302\256\105\146\243\161\207\026\115\211\117\141\224
\340\126\106\270\320\104\023\346\163\220\360\141\170\101\212\340
\032\176\067\254\002\051\276\350\377\002\046\306\032\174\012\261
\217\144\051\242\332\007\212\325\044\205\150\031\222\062\337\237
\051\140\130\155\052\205\200\021\066\311\266\302\323\236\204\014
\272\121\021\314\124\351\253\006\060\022\217\040\167\005\300\306
\215\232\233\131\310\266\205\350\160\007\002\261\036\377\327\151
\317\026\106\213\141\057\102\315\122\246\330\016\172\057\207\055
\306\057\074\042\103\261\223\176\303\026\166\331\314\327\213\354
\021\033\320\311\161\024\302\211\111\176\361\244\020\252\065\074
\250\033\273\377\354\062\100\345\275\052\363\246\001\023\310\214
\227\031\220\316\143\371\260\153\175\367\371\212\316\156\340\205
\347\333\224\325\172\040\045\240\065\360\251\367\257\132\050\132
\014\310\363\164\071\213\061\073\042\314\111\045\311\157\270\134
\172\056\054\226\343\057\243\076\312\171\167\151\221\132\370\360
\305\123\067\116\123\155\111\047\126\142\312\345\371\163\140\251
\027\073\133\242\045\257\055\173\311\267\333\317\031\021\072\063
\161\071\131\132\003\351\347\054\014\377\155\234\162\143\143\200
\005\130\123\206\334\050\165\026\302\345\360\023\131\241\201\377

\005\014\231\250\266\074\154\056\305\016\000\230\201\351\203\167
\146\103\073\132\216\205\105\114\262\317\271\075\344\234\066\223
\100\172\123\025\051\324\021\220\272\241\140\212\235\253\364\112
\112\152\335\207\252\301\355\005\332\236\133\126\341\210\117\052
\153\225\050\206\146\120\241\357\332\112\262\220\012\066\067\111
\205\227\102\170\007\147\346\233\040\241\014\154\311\317\317\376
\167\225\204\132\172\073\027\260\357\114\367\055\221\252\317\031
\157\306\371\022\050\347\036\012\246\226\315\041\260\003\142\120
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\005\270\267\003\053\013\254\164\165\123\044\341\166\270\117\045
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\017\001\001\377\004\004\003\002\001\006\060\022\006\003\125\035
\023\001\001\377\004\010\060\006\001\001\377\002\001\001\060\035
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\177\322\253\044\254\347\324\120\356\235\330\203\306\231\040\373
\026\057\210\306\027\067\312\213\036\253\320\342\154\007\130\270
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\276\302\140\041\057\300\371\243\004\110\066\133\067\276\332\154
\375\351\226\216\236\361\123\174\217\145\104\247\125\175\013\224
\116\124\366\377\062\275\057\175\234\245\136\102\304\114\051\343
\020\144\057\346\317\132\073\064\125\050\141\321\047\022\273\156
\124\233\201\130\254\325\136\235\127\003\240\115\321\377\067\164
\246\215\363\371\225\375\052\211\165\172\171\067\375\046\171\057
\047\163\177\251\031\040\345\320\137\230\350\226\005\217\230\171
\351\171\020\101\051\001\103\365\151\067\314\120\020\150\265\330
\104\116\016\362\231\343\047\054\152\216\137\273\175\273\153\161
\113\006\212\335\052\330\012\077\133\310\162\056\130\141\012\017
\201\150\036\107\307\351\055\272\357\215\334\016\243\043\303\262
\055\265\107\261\213\264\076\047\110\347\334\010\142\014\124\376
\103\327\225\112\277\007\057\112\100\176\006\245\121\207\046\211
\005\335\074\312\117\376\034\047\351\333\210\036\300\262\376\343
\357\037\176\261\350\131\225\240\117\253\012\211\000\340\163\262
\347\034\301\027\120\200\207\114\322\103\031\131\225\322\133\024
\133\012\133\300\174\211\161\172\265\012\300\212\105\057\356\304
\300\376\124\055\347\225\044\167\005\056\356\164\306\240\220\261

\163\334\102\326\240\165\311\130\131\005\242\336\021\277\131\351
\015\247\046\302\156\300\106\212\306\036\323\365\352\017\175\075
\162\315\031\225\114\272\340\150\227\215\130\300\152\357\171\367
\262\150\152\270\162\066\303\044\014\350\062\355\275\361\237\310
\357\336\165\322\333\166\251\224\047\070\364\001\141\277\146\070
\217\152\075\334\000\133\263\374\104\337\003\113\371\361\166\045
\065\377\122\037\010\035\320\245\024\351\213\006\053\170\203\054
\161\134\117\221\207\143\326\014\016\005\210\074\224\240\261\132
\124\026\337\335\121\303\250\066\056\054\202\174\271\232\260
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Swedish Government Root Authority v2"
Issuer: CN=Swedish Government Root Authority v2,O=Swedish Social Insurance Agency,C=SE
Serial Number:54:12:15:9f:ab:8a:75:93:44:94:ca:77:40:56:2e:ef
Subject: CN=Swedish Government Root Authority v2,O=Swedish Social Insurance Agency,C=SE
Not Valid Before: Tue May 05 11:15:23 2015
Not Valid After: Sat May 05 11:24:19 2040
Fingerprint (MD5): 33:85:e1:95:66:4b:83:50:73:42:c2:e0:da:a0:40:92
Fingerprint (SHA1): 32:f4:42:09:3b:36:d7:03:1b:75:ca:4d:ad:dc:b3:27:fa:a0:2b:9c
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Swedish Government Root Authority v2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\062\364\102\011\073\066\327\003\033\165\312\115\255\334\263\047
\372\240\053\234
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\063\205\341\225\146\113\203\120\163\102\302\340\332\240\100\222
END
CKA_ISSUER MULTILINE_OCTAL
\060\146\061\013\060\011\006\003\125\004\006\023\002\123\105\061
\050\060\046\006\003\125\004\012\023\037\123\167\145\144\151\163
\150\040\123\157\143\151\141\154\040\111\156\163\165\162\141\156
\143\145\040\101\147\145\156\143\171\061\055\060\053\006\003\125
\004\003\023\044\123\167\145\144\151\163\150\040\107\157\166\145
\162\156\155\145\156\164\040\122\157\157\164\040\101\165\164\150
\157\162\151\164\171\040\166\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\124\022\025\237\253\212\165\223\104\224\312\167\100\126
\056\357
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Tunisian Root Certificate Authority - TunRootCA2"
Issuer: O=National Digital Certification Agency,CN=Tunisian Root Certificate Authority - TunRootCA2,C=TN
Serial Number:21:66:15:05:05:27:05:05:bc:8a:b0:1d:af:0a:be:c4
Subject: O=National Digital Certification Agency,CN=Tunisian Root Certificate Authority - TunRootCA2,C=TN
Not Valid Before: Tue May 05 08:57:01 2015
Not Valid After: Wed May 05 08:57:01 2027
Fingerprint (MD5): 03:d1:25:b1:f0:55:ad:ca:dd:7c:59:93:50:ef:17:21
Fingerprint (SHA1): 96:38:63:3c:90:56:ae:88:14:a0:65:d2:3b:dc:60:a0:ee:70:2f:a7
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Tunisian Root Certificate Authority - TunRootCA2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\170\061\013\060\011\006\003\125\004\006\023\002\124\116\061
\071\060\067\006\003\125\004\003\023\060\124\165\156\151\163\151
\141\156\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040
\124\165\156\122\157\157\164\103\101\062\061\056\060\054\006\003
\125\004\012\023\045\116\141\164\151\157\156\141\154\040\104\151
\147\151\164\141\154\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\147\145\156\143\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\170\061\013\060\011\006\003\125\004\006\023\002\124\116\061
\071\060\067\006\003\125\004\003\023\060\124\165\156\151\163\151
\141\156\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040
\124\165\156\122\157\157\164\103\101\062\061\056\060\054\006\003
\125\004\012\023\045\116\141\164\151\157\156\141\154\040\104\151
\147\151\164\141\154\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\147\145\156\143\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\041\146\025\005\005\047\005\005\274\212\260\035\257\012
\276\304
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\274\060\202\003\244\240\003\002\001\002\002\020\041
\146\025\005\005\047\005\005\274\212\260\035\257\012\276\304\060

\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\170
\061\013\060\011\006\003\125\004\006\023\002\124\116\061\071\060
\067\006\003\125\004\003\023\060\124\165\156\151\163\151\141\156
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\145\040\101\165\164\150\157\162\151\164\171\040\055\040\124\165
\156\122\157\157\164\103\101\062\061\056\060\054\006\003\125\004
\012\023\045\116\141\164\151\157\156\141\154\040\104\151\147\151
\164\141\154\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\147\145\156\143\171\060\036\027\015\061\065\060\065
\060\065\060\070\065\067\060\061\132\027\015\062\067\060\065\060
\065\060\070\065\067\060\061\132\060\170\061\013\060\011\006\003
\125\004\006\023\002\124\116\061\071\060\067\006\003\125\004\003
\023\060\124\165\156\151\163\151\141\156\040\122\157\157\164\040
\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150
\157\162\151\164\171\040\055\040\124\165\156\122\157\157\164\103
\101\062\061\056\060\054\006\003\125\004\012\023\045\116\141\164
\151\157\156\141\154\040\104\151\147\151\164\141\154\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\147\145\156
\143\171\060\202\002\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202
\002\001\000\260\007\347\142\373\320\015\125\316\147\267\127\215
\156\014\251\047\124\036\353\251\044\253\147\217\217\234\141\017
\333\050\062\057\073\370\054\145\222\055\256\272\063\222\300\053
\236\362\037\136\155\043\135\263\130\037\215\241\300\155\165\205
\012\260\023\116\133\126\106\213\071\275\013\202\273\072\103\233
\010\272\106\356\371\027\353\315\310\327\343\165\023\336\256\121
\110\012\316\040\225\106\237\002\354\125\214\164\252\132\374\374
\352\011\063\065\156\243\107\006\307\335\176\204\150\016\307\022
\312\224\303\355\346\154\002\155\336\002\211\065\263\004\313\105
\370\174\107\244\323\037\337\345\134\043\342\363\042\173\271\113
\242\375\027\065\135\110\351\277\365\263\045\143\213\347\170\353
\374\165\047\275\210\134\246\205\077\101\337\225\174\335\172\106
\217\376\036\332\261\253\330\323\216\315\006\214\311\330\122\102
\021\122\242\203\217\134\203\173\344\047\266\217\037\240\136\075
\322\165\175\171\123\223\006\227\343\003\307\226\054\332\001\074
\171\305\073\120\350\260\323\241\244\342\323\203\175\104\370\020
\317\240\032\052\362\145\200\275\167\301\230\145\166\256\022\041
\142\312\072\276\276\265\231\303\133\304\321\277\233\300\012\312
\130\036\025\246\327\041\136\261\115\012\345\160\170\232\150\346
\164\146\062\024\052\036\021\276\210\367\006\366\125\243\303\037
\156\027\220\125\321\212\100\211\126\103\325\117\346\242\311\210
\144\000\005\121\077\127\264\074\266\276\152\221\161\100\361\242
\134\361\327\355\234\266\127\366\131\324\052\021\345\324\345\277
\273\036\321\310\327\137\104\005\233\273\211\072\255\247\103\167
\176\025\140\174\210\135\233\354\245\134\322\106\255\014\213\124
\105\324\224\121\125\105\122\252\134\330\021\254\370\126\042\154
\331\322\024\351\267\116\102\205\124\106\370\001\306\075\046\006
\167\350\262\065\033\360\235\102\311\177\376\200\047\001\120\313

\177\305\254\124\372\153\155\226\214\101\244\241\322\347\265\221
\110\157\167\034\213\302\053\164\376\074\134\304\135\224\316\253
\361\040\226\153\301\014\132\137\371\345\065\271\154\243\020\147
\357\221\252\110\016\357\110\267\166\130\142\331\276\236\102\263
\244\275\065\002\003\001\000\001\243\102\060\100\060\035\006\003
\125\035\016\004\026\004\024\314\163\305\243\152\051\061\227\247
\215\240\330\124\301\012\165\266\043\077\246\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\006\060\015\006\011
\052\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000
\056\362\207\110\355\231\236\237\001\014\074\311\012\170\123\174
\030\065\336\266\345\154\364\000\200\341\233\213\331\372\373\252
\373\145\267\322\311\365\327\247\313\176\311\261\242\161\130\155
\131\067\326\340\063\020\312\265\331\162\333\116\045\067\252\246
\335\035\030\275\365\311\212\234\172\210\356\037\002\304\055\222
\124\175\127\342\134\031\030\043\002\172\134\111\225\266\230\347
\302\140\101\145\100\273\354\132\267\161\234\120\362\163\166\373
\137\015\357\065\317\264\151\215\205\350\114\220\027\003\013\311
\263\056\040\067\143\021\142\246\117\343\064\340\373\171\125\347
\306\302\256\102\376\260\064\154\111\043\016\162\007\173\146\005
\125\110\373\022\017\240\300\372\116\321\373\075\314\376\375\026
\113\126\120\315\021\054\247\233\367\261\012\317\246\353\357\335
\216\270\256\102\010\174\244\214\224\352\206\307\103\343\367\074
\212\337\107\322\060\100\310\055\123\365\157\021\111\314\041\214
\226\103\117\020\240\107\241\126\215\037\034\133\330\126\133\353
\064\166\341\065\072\161\324\314\041\057\236\065\050\362\132\336
\236\344\356\107\152\020\350\070\275\112\264\175\004\177\005\256
\110\012\264\003\277\056\263\012\033\237\313\255\335\115\320\207
\041\267\107\166\202\203\055\307\127\276\232\025\243\033\060\030
\154\243\072\161\157\144\107\050\222\333\021\141\040\232\167\145
\055\371\254\126\023\154\113\243\137\377\233\244\350\357\347\130
\350\173\236\073\177\152\247\276\071\012\023\224\311\110\116\146
\144\330\123\114\354\101\153\375\374\066\056\327\016\337\141\013
\173\265\100\254\335\102\111\155\236\200\277\140\225\360\351\300
\077\173\273\030\351\070\265\126\116\247\176\212\142\357\230\036
\370\170\100\251\273\330\351\345\264\264\371\343\147\234\354\123
\317\270\102\264\057\223\201\065\240\154\366\272\040\212\150\075
\367\155\377\177\323\114\367\172\224\150\003\167\103\073\065\121
\252\123\022\076\107\023\024\071\254\326\145\217\250\106\377\074
\041\364\322\277\320\110\244\176\247\121\233\227\022\365\231\064
\027\043\126\204\023\143\313\064\312\037\312\272\250\007\051\363
\103\044\012\111\177\375\016\324\220\360\253\103\041\142\234\217
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate

```
# Trust for "Tunisian Root Certificate Authority - TunRootCA2"
# Issuer: O=National Digital Certification Agency,CN=Tunisian Root Certificate Authority - TunRootCA2,C=TN
# Serial Number:21:66:15:05:05:27:05:05:bc:8a:b0:1d:af:0a:be:c4
# Subject: O=National Digital Certification Agency,CN=Tunisian Root Certificate Authority - TunRootCA2,C=TN
# Not Valid Before: Tue May 05 08:57:01 2015
# Not Valid After: Wed May 05 08:57:01 2027
# Fingerprint (MD5): 03:d1:25:b1:f0:55:ad:ca:dd:7c:59:93:50:ef:17:21
# Fingerprint (SHA1): 96:38:63:3c:90:56:ae:88:14:a0:65:d2:3b:dc:60:a0:ee:70:2f:a7
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Tunisian Root Certificate Authority - TunRootCA2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\226\070\143\074\220\126\256\210\024\240\145\322\073\334\140\240
\356\160\057\247
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\003\321\045\261\360\125\255\312\335\174\131\223\120\357\027\041
END
CKA_ISSUER MULTILINE_OCTAL
\060\170\061\013\060\011\006\003\125\004\006\023\002\124\116\061
\071\060\067\006\003\125\004\003\023\060\124\165\156\151\163\151
\141\156\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040
\124\165\156\122\157\157\164\103\101\062\061\056\060\054\006\003
\125\004\012\023\045\116\141\164\151\157\156\141\154\040\104\151
\147\151\164\141\154\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\147\145\156\143\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\041\146\025\005\005\047\005\005\274\212\260\035\257\012
\276\304
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "OpenTrust Root CA G1"
# Issuer: CN=OpenTrust Root CA G1,O=OpenTrust,C=FR
# Serial Number:11:20:b3:90:55:39:7d:7f:36:6d:64:c2:a7:9f:6b:63:8e:67
# Subject: CN=OpenTrust Root CA G1,O=OpenTrust,C=FR
# Not Valid Before: Mon May 26 08:45:50 2014
# Not Valid After: Fri Jan 15 00:00:00 2038
# Fingerprint (MD5): 76:00:cc:81:29:cd:55:5e:88:6a:7a:2e:f7:4d:39:da
# Fingerprint (SHA1): 79:91:e8:34:f7:e2:ee:dd:08:95:01:52:e9:55:2d:14:e9:58:d5:7e
```

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OpenTrust Root CA G1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\100\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\117\160\145\156\124\162
\165\163\164\061\035\060\033\006\003\125\004\003\014\024\117\160
\145\156\124\162\165\163\164\040\122\157\157\164\040\103\101\040
\107\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\100\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\117\160\145\156\124\162
\165\163\164\061\035\060\033\006\003\125\004\003\014\024\117\160
\145\156\124\162\165\163\164\040\122\157\157\164\040\103\101\040
\107\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\040\263\220\125\071\175\177\066\155\144\302\247\237
\153\143\216\147
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\157\060\202\003\127\240\003\002\001\002\002\022\021
\040\263\220\125\071\175\177\066\155\144\302\247\237\153\143\216
\147\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000
\060\100\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\117\160\145\156\124\162
\165\163\164\061\035\060\033\006\003\125\004\003\014\024\117\160
\145\156\124\162\165\163\164\040\122\157\157\164\040\103\101\040
\107\061\060\036\027\015\061\064\060\065\062\066\060\070\064\065
\065\060\132\027\015\063\070\060\061\061\065\060\060\060\060\060
\060\132\060\100\061\013\060\011\006\003\125\004\006\023\002\106
\122\061\022\060\020\006\003\125\004\012\014\011\117\160\145\156
\124\162\165\163\164\061\035\060\033\006\003\125\004\003\014\024
\117\160\145\156\124\162\165\163\164\040\122\157\157\164\040\103
\101\040\107\061\060\202\002\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012
\002\202\002\001\000\370\171\106\332\226\305\060\136\212\161\003
\055\160\244\273\260\305\010\334\315\346\065\300\200\244\021\055
\335\346\207\256\135\075\221\322\207\154\067\267\332\142\236\233
\302\044\327\217\361\333\246\246\337\106\157\121\246\161\313\076
\033\061\147\142\367\021\133\064\047\325\171\116\214\233\130\275
\042\020\015\134\047\014\335\060\345\250\323\135\041\070\164\027
\376\343\037\266\117\073\153\055\333\175\140\037\214\175\114\005

\302\353\001\026\025\230\024\216\321\220\167\042\077\354\302\071
\270\171\072\360\111\044\342\225\221\334\141\064\222\214\124\164
\357\261\175\214\001\342\070\175\301\137\152\137\044\262\216\142
\027\255\171\040\255\253\035\267\340\264\226\110\117\146\103\020
\006\026\044\003\341\340\234\216\306\106\117\216\032\231\341\217
\271\216\063\154\151\336\130\255\240\016\247\144\124\021\151\104
\146\117\114\022\247\216\054\175\304\324\133\305\000\064\060\301
\331\231\376\062\316\007\204\264\116\315\012\377\066\115\142\361
\247\143\127\344\333\152\247\256\277\053\271\311\346\262\047\211
\345\176\232\034\115\150\306\301\030\336\063\053\121\106\113\034
\216\367\075\014\371\212\064\024\304\373\063\065\043\361\314\361
\052\307\245\273\260\242\316\376\123\153\115\101\033\146\050\262
\226\372\247\256\012\116\271\071\063\104\234\164\301\223\034\370
\340\236\044\045\103\361\233\043\202\252\337\054\040\260\334\066
\116\003\263\174\002\324\346\173\032\252\207\023\277\076\241\164
\273\233\016\341\300\223\237\327\244\146\312\273\033\073\343\060
\364\063\131\212\007\162\003\125\347\163\152\003\061\156\157\226
\033\343\242\237\257\222\307\355\365\102\267\045\114\073\023\004
\317\034\226\257\034\042\243\320\253\005\262\114\022\043\122\334
\375\031\133\047\234\036\073\172\375\102\043\333\043\200\023\360
\274\121\025\124\224\246\167\076\320\164\121\275\121\024\010\071
\067\313\037\064\251\060\235\122\204\056\125\220\261\272\337\125
\000\013\330\126\055\261\111\111\162\200\251\142\327\300\366\030
\021\004\125\315\164\173\317\141\160\171\364\173\054\134\134\222
\374\345\270\132\253\114\223\225\241\047\356\245\276\317\161\043
\102\272\233\166\055\002\003\001\000\001\243\143\060\141\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\017
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060
\035\006\003\125\035\016\004\026\004\024\227\106\041\127\041\065
\332\066\125\307\363\361\067\160\345\010\366\223\051\266\060\037
\006\003\125\035\043\004\030\060\026\200\024\227\106\041\127\041
\065\332\066\125\307\363\361\067\160\345\010\366\223\051\266\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202
\002\001\000\035\335\002\140\174\340\065\247\346\230\173\352\104
\316\147\100\117\362\223\156\146\324\071\211\046\254\323\115\004
\074\273\207\041\077\067\364\161\045\332\113\272\253\226\202\201
\221\266\355\331\261\244\145\227\342\157\144\131\244\226\356\140
\312\037\043\373\105\272\377\217\044\360\312\251\061\177\171\037
\200\263\055\062\272\144\147\140\257\271\131\315\337\232\111\323
\250\202\261\371\230\224\212\314\340\273\340\004\033\231\140\261
\106\145\334\010\242\262\106\236\104\210\352\223\176\127\026\322
\025\162\137\056\113\253\324\235\143\270\343\110\345\376\204\056
\130\012\237\103\035\376\267\030\222\206\103\113\016\234\062\206
\054\140\365\351\110\352\225\355\160\051\361\325\057\375\065\264
\127\317\333\205\110\231\271\302\157\154\217\315\170\225\254\144
\050\375\126\260\303\157\303\276\131\122\341\137\204\217\200\362
\364\015\066\255\166\263\243\265\341\144\166\072\130\334\175\117
\136\126\154\345\125\131\127\245\337\361\212\146\060\214\324\122

\142\070\167\264\276\050\327\312\066\304\233\005\360\370\025\333
\333\361\357\064\235\035\170\112\210\126\147\156\140\377\217\310
\213\341\216\275\102\251\063\012\131\102\022\022\052\372\261\235
\103\216\005\233\231\332\142\255\127\066\263\035\266\015\171\055
\226\270\353\362\014\113\014\245\224\306\060\247\046\031\055\355
\114\006\120\060\361\375\130\075\271\113\027\137\031\264\152\204
\124\264\070\117\071\242\015\226\150\303\050\224\375\355\055\037
\112\153\103\226\056\220\001\020\373\070\246\201\013\320\277\165
\323\324\271\316\361\077\157\016\034\036\067\161\345\030\207\165
\031\077\120\271\136\244\105\064\255\260\312\346\345\023\166\017
\061\024\251\216\055\224\326\325\205\115\163\025\117\113\362\262
\076\355\154\275\375\016\235\146\163\260\075\264\367\277\250\340
\021\244\304\256\165\011\112\143\000\110\040\246\306\235\013\011
\212\264\340\346\316\076\307\076\046\070\351\053\336\246\010\111
\003\004\220\212\351\217\277\350\266\264\052\243\043\215\034\034
\262\071\222\250\217\002\134\100\071\165\324\163\101\002\167\336
\315\340\103\207\326\344\272\112\303\154\022\177\376\052\346\043
\326\214\161
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "OpenTrust Root CA G1"
Issuer: CN=OpenTrust Root CA G1,O=OpenTrust,C=FR
Serial Number:11:20:b3:90:55:39:7d:7f:36:6d:64:c2:a7:9f:6b:63:8e:67
Subject: CN=OpenTrust Root CA G1,O=OpenTrust,C=FR
Not Valid Before: Mon May 26 08:45:50 2014
Not Valid After: Fri Jan 15 00:00:00 2038
Fingerprint (MD5): 76:00:cc:81:29:cd:55:5e:88:6a:7a:2e:f7:4d:39:da
Fingerprint (SHA1): 79:91:e8:34:f7:e2:ee:dd:08:95:01:52:e9:55:2d:14:e9:58:d5:7e
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OpenTrust Root CA G1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\171\221\350\064\367\342\356\335\010\225\001\122\351\125\055\024
\351\130\325\176
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\166\000\314\201\051\315\125\136\210\152\172\056\367\115\071\332
END
CKA_ISSUER MULTILINE_OCTAL
\060\100\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\117\160\145\156\124\162
\165\163\164\061\035\060\033\006\003\125\004\003\014\024\117\160

\145\156\124\162\165\163\164\040\122\157\157\164\040\103\101\040
\107\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\040\263\220\125\071\175\177\066\155\144\302\247\237
\153\143\216\147
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "OpenTrust Root CA G2"
Issuer: CN=OpenTrust Root CA G2,O=OpenTrust,C=FR
Serial Number:11:20:a1:69:1b:bf:bd:b9:bd:52:96:8f:23:e8:48:bf:26:11
Subject: CN=OpenTrust Root CA G2,O=OpenTrust,C=FR
Not Valid Before: Mon May 26 00:00:00 2014
Not Valid After: Fri Jan 15 00:00:00 2038
Fingerprint (MD5): 57:24:b6:59:24:6b:ae:c8:fe:1c:0c:20:f2:c0:4e:eb
Fingerprint (SHA1): 79:5f:88:60:c5:ab:7c:3d:92:e6:cb:f4:8d:e1:45:cd:11:ef:60:0b
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OpenTrust Root CA G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\100\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\117\160\145\156\124\162
\165\163\164\061\035\060\033\006\003\125\004\003\014\024\117\160
\145\156\124\162\165\163\164\040\122\157\157\164\040\103\101\040
\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\100\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\117\160\145\156\124\162
\165\163\164\061\035\060\033\006\003\125\004\003\014\024\117\160
\145\156\124\162\165\163\164\040\122\157\157\164\040\103\101\040
\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\040\241\151\033\277\275\271\275\122\226\217\043\350
\110\277\046\021
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\157\060\202\003\127\240\003\002\001\002\002\022\021

\040\241\151\033\277\275\271\275\122\226\217\043\350\110\277\046
\021\060\015\006\011\052\206\110\206\367\015\001\001\015\005\000
\060\100\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\117\160\145\156\124\162
\165\163\164\061\035\060\033\006\003\125\004\003\014\024\117\160
\145\156\124\162\165\163\164\040\122\157\157\164\040\103\101\040
\107\062\060\036\027\015\061\064\060\065\062\066\060\060\060\060
\060\060\132\027\015\063\070\060\061\061\065\060\060\060\060\060
\060\132\060\100\061\013\060\011\006\003\125\004\006\023\002\106
\122\061\022\060\020\006\003\125\004\012\014\011\117\160\145\156
\124\162\165\163\164\061\035\060\033\006\003\125\004\003\014\024
\117\160\145\156\124\162\165\163\164\040\122\157\157\164\040\103
\101\040\107\062\060\202\002\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012
\002\202\002\001\000\314\266\127\245\063\224\020\201\062\123\337
\141\176\017\166\071\317\134\302\123\165\035\111\172\226\070\335
\242\163\152\361\157\336\136\242\132\271\161\041\276\066\331\241
\374\274\356\154\250\174\064\032\161\032\350\032\330\137\016\104
\006\355\247\340\363\322\141\013\340\062\242\226\321\070\360\302
\332\001\027\374\344\254\117\350\356\211\036\164\253\117\277\036
\011\266\066\152\126\363\341\356\226\211\146\044\006\344\315\102
\072\112\335\340\232\260\304\202\105\263\376\311\253\134\174\076
\311\353\027\057\014\175\156\256\245\217\310\254\045\012\157\372
\325\105\230\322\065\011\366\003\103\224\376\331\277\040\225\171
\200\230\212\331\211\065\273\121\033\244\067\175\374\231\073\253
\377\277\254\015\217\103\261\231\173\026\020\176\035\157\107\304
\025\217\004\226\010\006\102\004\370\204\326\035\274\221\246\102
\276\111\325\152\210\077\274\055\121\321\236\215\340\122\314\127
\335\065\065\130\333\264\217\044\210\344\213\337\334\153\124\322
\201\053\262\316\222\113\034\037\106\372\035\330\222\313\166\147
\265\011\231\011\345\254\027\024\125\160\306\074\240\126\012\003
\263\334\142\031\337\310\265\060\177\365\074\046\165\021\275\327
\033\263\207\236\007\257\145\161\345\240\317\032\247\011\020\035
\223\211\146\133\350\074\142\062\265\265\072\156\351\205\001\213
\236\103\214\147\163\050\131\133\353\343\334\054\314\245\046\162
\142\022\264\346\234\203\104\366\121\244\342\300\172\044\127\312
\016\245\077\072\265\073\213\345\166\356\160\346\222\336\026\134
\050\133\227\031\047\222\376\172\222\124\316\223\071\012\026\207
\274\143\263\365\261\223\134\340\156\267\320\352\371\142\062\210
\104\373\277\047\050\266\060\225\135\022\050\271\225\276\217\123
\030\345\242\030\026\342\126\244\262\054\020\365\035\067\246\370
\267\366\320\131\134\211\367\302\325\265\224\164\321\325\376\033
\266\360\346\326\036\173\322\074\313\250\343\365\030\363\041\037
\156\357\115\150\006\173\055\135\156\103\211\246\300\371\240\277
\202\036\317\123\177\264\353\054\333\135\366\152\175\100\044\005
\162\211\070\001\223\313\161\302\071\135\006\021\366\157\170\370
\067\015\071\204\047\002\003\001\000\001\243\143\060\141\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\017

\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060
\035\006\003\125\035\016\004\026\004\024\152\071\372\102\042\367
\346\211\000\115\136\175\063\203\313\270\156\167\206\257\060\037
\006\003\125\035\043\004\030\060\026\200\024\152\071\372\102\042
\367\346\211\000\115\136\175\063\203\313\270\156\167\206\257\060
\015\006\011\052\206\110\206\367\015\001\001\015\005\000\003\202
\002\001\000\230\313\253\100\074\345\063\002\227\177\055\207\246
\217\324\136\112\257\270\036\347\273\161\373\200\144\045\251\263
\032\076\150\135\047\046\247\272\052\341\360\127\203\012\144\117
\036\042\164\033\351\220\137\360\254\317\377\117\150\172\070\244
\020\154\015\261\307\244\167\200\030\266\242\050\104\166\247\064
\235\161\204\057\312\131\322\107\210\231\101\042\311\060\230\141
\156\075\250\250\005\155\321\037\300\121\104\126\177\047\065\002
\335\136\230\012\102\353\060\277\215\241\233\121\252\073\352\223
\106\144\305\000\171\336\041\153\366\127\240\206\327\006\162\354
\160\106\113\213\163\335\240\041\165\076\334\035\300\217\323\117
\163\034\205\331\376\177\142\310\225\157\266\323\173\214\272\123
\302\157\233\104\114\171\320\035\160\263\327\237\002\364\262\007
\260\307\345\370\255\043\016\246\126\311\051\022\167\110\331\057
\106\375\073\360\374\164\160\222\245\216\070\010\037\144\060\266
\267\113\373\066\254\020\216\240\122\063\143\235\003\065\126\305
\151\275\306\043\132\047\224\366\244\022\370\055\063\074\241\126
\245\137\326\031\351\355\174\010\275\167\315\047\144\314\224\332
\116\106\120\207\340\371\301\123\200\036\273\255\373\107\122\213
\033\375\242\371\336\016\042\267\075\063\131\154\324\336\365\225
\006\062\015\121\031\101\134\076\117\006\367\271\053\200\047\366
\243\252\172\174\006\341\103\303\023\071\142\032\066\275\340\050
\056\224\002\344\051\056\140\125\256\100\075\260\164\222\136\360
\040\144\226\077\137\105\135\210\265\212\332\002\240\133\105\124
\336\070\075\011\300\250\112\145\106\026\374\252\277\124\116\115
\133\276\070\103\267\050\312\213\063\252\032\045\272\045\134\051
\057\133\112\156\214\352\055\234\052\366\005\166\340\167\227\200
\210\335\147\023\157\035\150\044\213\117\267\164\201\345\364\140
\237\172\125\327\076\067\332\026\153\076\167\254\256\030\160\225
\010\171\051\003\212\376\301\073\263\077\032\017\244\073\136\037
\130\241\225\311\253\057\163\112\320\055\156\232\131\017\125\030
\170\055\074\121\246\227\213\346\273\262\160\252\114\021\336\377
\174\053\067\324\172\321\167\064\217\347\371\102\367\074\201\014
\113\122\012
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "OpenTrust Root CA G2"
Issuer: CN=OpenTrust Root CA G2,O=OpenTrust,C=FR
Serial Number:11:20:a1:69:1b:bf:bd:b9:bd:52:96:8f:23:e8:48:bf:26:11

```
# Subject: CN=OpenTrust Root CA G2,O=OpenTrust,C=FR
# Not Valid Before: Mon May 26 00:00:00 2014
# Not Valid After: Fri Jan 15 00:00:00 2038
# Fingerprint (MD5): 57:24:b6:59:24:6b:ae:c8:fe:1c:0c:20:f2:c0:4e:eb
# Fingerprint (SHA1): 79:5f:88:60:c5:ab:7c:3d:92:e6:cb:f4:8d:e1:45:cd:11:ef:60:0b
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OpenTrust Root CA G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\171\137\210\140\305\253\174\075\222\346\313\364\215\341\105\315
\021\357\140\013
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\127\044\266\131\044\153\256\310\376\034\014\040\362\300\116\353
END
CKA_ISSUER MULTILINE_OCTAL
\060\100\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\117\160\145\156\124\162
\165\163\164\061\035\060\033\006\003\125\004\003\014\024\117\160
\145\156\124\162\165\163\164\040\122\157\157\164\040\103\101\040
\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\040\241\151\033\277\275\271\275\122\226\217\043\350
\110\277\046\021
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "OpenTrust Root CA G3"
# Issuer: CN=OpenTrust Root CA G3,O=OpenTrust,C=FR
# Serial Number:11:20:e6:f8:4c:fc:24:b0:be:05:40:ac:da:83:1b:34:60:3f
# Subject: CN=OpenTrust Root CA G3,O=OpenTrust,C=FR
# Not Valid Before: Mon May 26 00:00:00 2014
# Not Valid After: Fri Jan 15 00:00:00 2038
# Fingerprint (MD5): 21:37:b4:17:16:92:7b:67:46:70:a9:96:d7:a8:13:24
# Fingerprint (SHA1): 6e:26:64:f3:56:bf:34:55:bf:d1:93:3f:7c:01:de:d8:13:da:8a:a6
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OpenTrust Root CA G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
```

CKA_SUBJECT MULTILINE_OCTAL
\060\100\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\117\160\145\156\124\162
\165\163\164\061\035\060\033\006\003\125\004\003\014\024\117\160
\145\156\124\162\165\163\164\040\122\157\157\164\040\103\101\040
\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\100\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\117\160\145\156\124\162
\165\163\164\061\035\060\033\006\003\125\004\003\014\024\117\160
\145\156\124\162\165\163\164\040\122\157\157\164\040\103\101\040
\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\040\346\370\114\374\044\260\276\005\100\254\332\203
\033\064\140\077
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\041\060\202\001\246\240\003\002\001\002\002\022\021
\040\346\370\114\374\044\260\276\005\100\254\332\203\033\064\140
\077\060\012\006\010\052\206\110\316\075\004\003\003\060\100\061
\013\060\011\006\003\125\004\006\023\002\106\122\061\022\060\020
\006\003\125\004\012\014\011\117\160\145\156\124\162\165\163\164
\061\035\060\033\006\003\125\004\003\014\024\117\160\145\156\124
\162\165\163\164\040\122\157\157\164\040\103\101\040\107\063\060
\036\027\015\061\064\060\065\062\066\060\060\060\060\060\060\132
\027\015\063\070\060\061\061\065\060\060\060\060\060\060\132\060
\100\061\013\060\011\006\003\125\004\006\023\002\106\122\061\022
\060\020\006\003\125\004\012\014\011\117\160\145\156\124\162\165
\163\164\061\035\060\033\006\003\125\004\003\014\024\117\160\145
\156\124\162\165\163\164\040\122\157\157\164\040\103\101\040\107
\063\060\166\060\020\006\007\052\206\110\316\075\002\001\006\005
\053\201\004\000\042\003\142\000\004\112\356\130\256\115\312\146
\336\006\072\243\021\374\340\030\360\156\034\272\055\060\014\211
\331\326\356\233\163\203\251\043\025\214\057\131\212\132\335\024
\352\235\131\053\103\267\006\354\062\266\272\356\101\265\255\135
\241\205\314\352\035\024\146\243\147\176\106\342\224\363\347\266
\126\241\025\131\241\117\067\227\271\042\036\275\021\353\364\262
\037\136\303\024\232\345\331\227\231\243\143\060\141\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\017\006
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\035
\006\003\125\035\016\004\026\004\024\107\167\303\024\213\142\071
\014\311\157\341\120\115\320\020\130\334\225\210\155\060\037\006
\003\125\035\043\004\030\060\026\200\024\107\167\303\024\213\142
\071\014\311\157\341\120\115\320\020\130\334\225\210\155\060\012
\006\010\052\206\110\316\075\004\003\003\003\151\000\060\146\002

\061\000\217\250\334\235\272\014\004\027\372\025\351\075\057\051
\001\227\277\201\026\063\100\223\154\374\371\355\200\160\157\252
\217\333\204\302\213\365\065\312\006\334\144\157\150\026\341\217
\221\271\002\061\000\330\113\245\313\302\320\010\154\351\030\373
\132\335\115\137\044\013\260\000\041\045\357\217\247\004\046\161
\342\174\151\345\135\232\370\101\037\073\071\223\223\235\125\352
\315\215\361\373\301
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "OpenTrust Root CA G3"
Issuer: CN=OpenTrust Root CA G3,O=OpenTrust,C=FR
Serial Number:11:20:e6:f8:4c:fc:24:b0:be:05:40:ac:da:83:1b:34:60:3f
Subject: CN=OpenTrust Root CA G3,O=OpenTrust,C=FR
Not Valid Before: Mon May 26 00:00:00 2014
Not Valid After: Fri Jan 15 00:00:00 2038
Fingerprint (MD5): 21:37:b4:17:16:92:7b:67:46:70:a9:96:d7:a8:13:24
Fingerprint (SHA1): 6e:26:64:f3:56:bf:34:55:bf:d1:93:3f:7c:01:de:d8:13:da:8a:a6
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OpenTrust Root CA G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\156\046\144\363\126\277\064\125\277\321\223\077\174\001\336\330
\023\332\212\246
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\041\067\264\027\026\222\173\147\106\160\251\226\327\250\023\044
END
CKA_ISSUER MULTILINE_OCTAL
\060\100\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\117\160\145\156\124\162
\165\163\164\061\035\060\033\006\003\125\004\003\014\024\117\160
\145\156\124\162\165\163\164\040\122\157\157\164\040\103\101\040
\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\040\346\370\114\374\044\260\276\005\100\254\332\203
\033\064\140\077
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

```
# Microsoft Code Signing Only Certificate
# Certificate "Certplus Root CA G1"
# Issuer: CN=Certplus Root CA G1,O=Certplus,C=FR
# Serial Number:11:20:55:83:e4:2d:3e:54:56:85:2d:83:37:b7:2c:dc:46:11
# Subject: CN=Certplus Root CA G1,O=Certplus,C=FR
# Not Valid Before: Mon May 26 00:00:00 2014
# Not Valid After: Fri Jan 15 00:00:00 2038
# Fingerprint (MD5): 7f:09:9c:f7:d9:b9:5c:69:69:56:d5:37:3e:14:0d:42
# Fingerprint (SHA1): 22:fd:d0:b7:fd:a2:4e:0d:ac:49:2c:a0:ac:a6:7b:6a:1f:e3:f7:66
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certplus Root CA G1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\021\060\017\006\003\125\004\012\014\010\103\145\162\164\160\154
\165\163\061\034\060\032\006\003\125\004\003\014\023\103\145\162
\164\160\154\165\163\040\122\157\157\164\040\103\101\040\107\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\021\060\017\006\003\125\004\012\014\010\103\145\162\164\160\154
\165\163\061\034\060\032\006\003\125\004\003\014\023\103\145\162
\164\160\154\165\163\040\122\157\157\164\040\103\101\040\107\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\040\125\203\344\055\076\124\126\205\055\203\067\267
\054\334\106\021
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\153\060\202\003\123\240\003\002\001\002\002\022\021
\040\125\203\344\055\076\124\126\205\055\203\067\267\054\334\106
\021\060\015\006\011\052\206\110\206\367\015\001\001\015\005\000
\060\076\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\021\060\017\006\003\125\004\012\014\010\103\145\162\164\160\154
\165\163\061\034\060\032\006\003\125\004\003\014\023\103\145\162
\164\160\154\165\163\040\122\157\157\164\040\103\101\040\107\061
\060\036\027\015\061\064\060\065\062\066\060\060\060\060\060\060
\132\027\015\063\070\060\061\061\065\060\060\060\060\060\060\132
\060\076\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\021\060\017\006\003\125\004\012\014\010\103\145\162\164\160\154
\165\163\061\034\060\032\006\003\125\004\003\014\023\103\145\162
\164\160\154\165\163\040\122\157\157\164\040\103\101\040\107\061
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001
```

\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001
\000\332\120\207\266\332\270\251\076\235\144\372\126\063\232\126
\075\026\345\003\225\262\064\034\232\155\142\005\324\330\217\347
\211\144\237\272\333\144\213\144\346\171\052\141\315\257\217\132
\211\221\145\271\130\374\264\003\137\221\077\055\020\025\340\176
\317\274\374\177\103\147\250\255\136\066\043\330\230\263\115\363
\103\236\071\174\052\374\354\210\325\210\356\160\275\205\026\055
\352\113\211\074\243\161\102\376\034\375\323\034\055\020\270\206
\124\352\103\270\333\306\207\332\250\256\200\045\317\172\046\035
\252\221\260\110\157\256\265\336\236\330\327\372\000\375\306\217
\320\121\273\142\175\244\261\214\262\377\040\021\272\065\143\005
\206\107\140\103\063\220\366\107\242\003\117\226\115\235\117\301
\352\352\234\242\376\064\056\336\267\312\033\166\244\267\255\237
\351\250\324\170\077\170\376\362\070\011\066\035\322\026\002\310
\354\052\150\257\365\216\224\357\055\023\172\036\102\112\035\025
\061\256\014\004\127\374\141\163\363\061\126\206\061\200\240\304
\021\156\060\166\343\224\360\137\004\304\254\207\162\211\230\305
\235\314\127\010\232\364\014\374\175\172\005\072\372\107\200\071
\266\317\204\023\167\157\047\352\377\226\147\027\010\155\351\015
\326\043\120\060\260\025\164\023\076\345\057\377\016\315\304\013
\112\135\360\330\000\063\111\146\353\241\030\174\131\056\075\050
\271\141\161\313\265\245\272\270\352\334\342\160\157\010\152\334
\207\147\064\357\337\060\162\335\363\311\077\043\377\065\341\276
\041\051\040\060\201\344\031\245\040\351\045\312\163\061\164\051
\276\342\102\325\363\262\046\146\307\150\375\031\263\347\040\223
\231\350\135\340\136\207\347\106\350\045\234\012\051\044\324\315
\130\206\122\100\044\262\173\017\230\022\040\044\366\220\154\107
\310\015\273\030\040\056\331\375\374\213\362\051\352\207\164\225
\340\102\120\170\204\004\101\141\260\364\041\043\217\055\313\050
\041\362\152\154\364\032\246\305\024\264\067\145\117\225\375\200
\310\370\162\345\045\153\304\140\261\173\155\216\112\212\163\316
\131\373\160\172\163\006\023\331\323\164\067\044\101\012\021\157
\227\334\347\344\176\241\275\025\362\272\207\017\075\150\212\026
\007\002\003\001\000\001\243\143\060\141\060\016\006\003\125\035
\017\001\001\377\004\004\003\002\001\006\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125
\035\016\004\026\004\024\250\301\300\233\221\250\103\025\174\135
\006\047\264\052\121\330\227\013\201\261\060\037\006\003\125\035
\043\004\030\060\026\200\024\250\301\300\233\221\250\103\025\174
\135\006\047\264\052\121\330\227\013\201\261\060\015\006\011\052
\206\110\206\367\015\001\001\015\005\000\003\202\002\001\000\234
\126\157\001\176\321\275\114\365\212\306\360\046\037\344\340\070
\030\314\062\303\051\073\235\101\051\064\141\306\327\360\000\241
\353\244\162\217\224\027\274\023\054\165\264\127\356\012\174\011
\172\334\325\312\241\320\064\023\370\167\253\237\345\376\330\036
\164\212\205\007\217\177\314\171\172\312\226\315\315\375\117\373
\375\043\015\220\365\364\136\323\306\141\175\236\021\340\002\356
\011\004\331\007\335\246\212\267\014\203\044\273\203\120\222\376

\140\165\021\076\330\235\260\212\172\265\340\235\233\313\220\122
\113\260\223\052\324\076\026\063\345\236\306\145\025\076\144\073
\004\077\333\014\217\137\134\035\151\037\257\363\351\041\214\363
\357\227\366\232\267\031\266\204\164\234\243\124\265\160\116\143
\330\127\135\123\041\233\100\222\103\372\326\167\125\063\117\144
\325\373\320\054\152\216\155\045\246\357\205\350\002\304\123\076
\271\236\207\274\314\065\032\336\241\351\212\143\207\145\036\021
\052\333\143\167\227\024\276\232\024\231\021\262\300\356\260\117
\370\024\041\062\103\117\237\253\242\313\250\017\252\073\006\125
\306\022\051\127\010\324\067\327\207\047\255\111\131\247\221\253
\104\172\136\215\160\333\227\316\110\120\261\163\223\366\360\203
\140\371\315\361\341\061\375\133\174\161\041\143\024\024\252\257
\305\336\223\176\150\261\354\042\242\252\220\165\236\265\103\162
\352\144\243\204\113\375\014\250\046\153\161\227\356\126\143\146
\350\102\124\371\307\035\337\320\217\133\337\310\060\157\210\376
\015\304\063\034\123\250\243\375\110\020\362\344\012\116\341\025
\127\374\156\144\060\302\125\021\334\352\251\315\112\124\254\051
\143\104\317\112\100\240\326\150\131\033\063\371\357\072\213\333
\040\222\334\102\204\277\001\253\207\300\325\040\202\333\306\271
\203\205\102\134\017\103\073\152\111\065\325\230\364\025\277\372
\141\201\014\011\040\030\322\320\027\014\313\110\000\120\351\166
\202\214\144\327\072\240\007\125\314\036\061\300\357\072\264\145
\373\343\277\102\153\236\017\250\275\153\230\334\330\333\313\213
\244\335\327\131\364\156\335\376\252\303\221\320\056\102\007\300
\014\115\123\315\044\261\114\133\036\121\364\337\351\222\372
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Certplus Root CA G1"
Issuer: CN=Certplus Root CA G1,O=Certplus,C=FR
Serial Number:11:20:55:83:e4:2d:3e:54:56:85:2d:83:37:b7:2c:dc:46:11
Subject: CN=Certplus Root CA G1,O=Certplus,C=FR
Not Valid Before: Mon May 26 00:00:00 2014
Not Valid After: Fri Jan 15 00:00:00 2038
Fingerprint (MD5): 7f:09:9c:f7:d9:b9:5c:69:69:56:d5:37:3e:14:0d:42
Fingerprint (SHA1): 22:fd:d0:b7:fd:a2:4e:0d:ac:49:2c:a0:ac:a6:7b:6a:1f:e3:f7:66
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certplus Root CA G1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\042\375\320\267\375\242\116\015\254\111\054\240\254\246\173\152
\037\343\367\146
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\177\011\234\367\331\271\134\151\151\126\325\067\076\024\015\102
END
CKA_ISSUER MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\021\060\017\006\003\125\004\012\014\010\103\145\162\164\160\154
\165\163\061\034\060\032\006\003\125\004\003\014\023\103\145\162
\164\160\154\165\163\040\122\157\157\164\040\103\101\040\107\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\040\125\203\344\055\076\124\126\205\055\203\067\267
\054\334\106\021
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Certplus Root CA G2"
Issuer: CN=Certplus Root CA G2,O=Certplus,C=FR
Serial Number:11:20:d9:91:ce:ae:a3:e8:c5:e7:ff:e9:02:af:cf:73:bc:55
Subject: CN=Certplus Root CA G2,O=Certplus,C=FR
Not Valid Before: Mon May 26 00:00:00 2014
Not Valid After: Fri Jan 15 00:00:00 2038
Fingerprint (MD5): a7:ee:c4:78:2d:1b:ee:2d:b9:29:ce:d6:a7:96:32:31
Fingerprint (SHA1): 4f:65:8e:1f:e9:06:d8:28:02:e9:54:47:41:c9:54:25:5d:69:cc:1a
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certplus Root CA G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\021\060\017\006\003\125\004\012\014\010\103\145\162\164\160\154
\165\163\061\034\060\032\006\003\125\004\003\014\023\103\145\162
\164\160\154\165\163\040\122\157\157\164\040\103\101\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\021\060\017\006\003\125\004\012\014\010\103\145\162\164\160\154
\165\163\061\034\060\032\006\003\125\004\003\014\023\103\145\162
\164\160\154\165\163\040\122\157\157\164\040\103\101\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\040\331\221\316\256\243\350\305\347\377\351\002\257

\317\163\274\125
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\034\060\202\001\242\240\003\002\001\002\002\022\021
\040\331\221\316\256\243\350\305\347\377\351\002\257\317\163\274
\125\060\012\006\010\052\206\110\316\075\004\003\003\060\076\061
\013\060\011\006\003\125\004\006\023\002\106\122\061\021\060\017
\006\003\125\004\012\014\010\103\145\162\164\160\154\165\163\061
\034\060\032\006\003\125\004\003\014\023\103\145\162\164\160\154
\165\163\040\122\157\157\164\040\103\101\040\107\062\060\036\027
\015\061\064\060\065\062\066\060\060\060\060\060\060\132\027\015
\063\070\060\061\061\065\060\060\060\060\060\060\132\060\076\061
\013\060\011\006\003\125\004\006\023\002\106\122\061\021\060\017
\006\003\125\004\012\014\010\103\145\162\164\160\154\165\163\061
\034\060\032\006\003\125\004\003\014\023\103\145\162\164\160\154
\165\163\040\122\157\157\164\040\103\101\040\107\062\060\166\060
\020\006\007\052\206\110\316\075\002\001\006\005\053\201\004\000
\042\003\142\000\004\315\017\133\126\202\337\360\105\032\326\255
\367\171\360\035\311\254\226\326\236\116\234\037\264\102\021\312
\206\277\155\373\205\243\305\345\031\134\327\356\246\077\151\147
\330\170\342\246\311\304\333\055\171\056\347\213\215\002\157\061
\042\115\006\343\140\162\105\235\016\102\167\236\316\317\345\177
\205\233\030\344\374\314\056\162\323\026\223\116\312\231\143\134
\241\005\052\154\006\243\143\060\141\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\001\006\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035
\016\004\026\004\024\332\203\143\002\171\216\332\114\306\074\043
\024\330\217\303\040\253\050\140\131\060\037\006\003\125\035\043
\004\030\060\026\200\024\332\203\143\002\171\216\332\114\306\074
\043\024\330\217\303\040\253\050\140\131\060\012\006\010\052\206
\110\316\075\004\003\003\003\150\000\060\145\002\060\160\376\260
\013\331\367\203\227\354\363\125\035\324\334\263\006\016\376\063
\230\235\213\071\220\153\224\041\355\266\327\135\326\114\327\041
\247\347\277\041\017\053\315\367\052\334\205\007\235\002\061\000
\206\024\026\345\334\260\145\302\300\216\024\237\277\044\026\150
\345\274\371\171\151\334\255\105\053\367\266\061\163\314\006\245
\123\223\221\032\223\256\160\152\147\272\327\236\345\141\032\137
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Certplus Root CA G2"
Issuer: CN=Certplus Root CA G2,O=Certplus,C=FR
Serial Number:11:20:d9:91:ce:ae:a3:e8:c5:e7:ff:e9:02:af:cf:73:bc:55
Subject: CN=Certplus Root CA G2,O=Certplus,C=FR
Not Valid Before: Mon May 26 00:00:00 2014

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# Not Valid After: Fri Jan 15 00:00:00 2038
# Fingerprint (MD5): a7:ee:c4:78:2d:1b:ee:2d:b9:29:ce:d6:a7:96:32:31
# Fingerprint (SHA1): 4f:65:8e:1f:e9:06:d8:28:02:e9:54:47:41:c9:54:25:5d:69:cc:1a
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certplus Root CA G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\117\145\216\037\351\006\330\050\002\351\124\107\101\311\124\045
\135\151\314\032
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\247\356\304\170\055\033\356\055\271\051\316\326\247\226\062\061
END
CKA_ISSUER MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\021\060\017\006\003\125\004\012\014\010\103\145\162\164\160\154
\165\163\061\034\060\032\006\003\125\004\003\014\023\103\145\162
\164\160\154\165\163\040\122\157\157\164\040\103\101\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\040\331\221\316\256\243\350\305\347\377\351\002\257
\317\163\274\125
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Government Root Certification Authority"
# Issuer: O=Government Root Certification Authority,C=TW
# Serial Number:b6:4b:88:07:e2:23:ee:c8:5c:12:ad:a6:0e:06:a1:f2
# Subject: O=Government Root Certification Authority,C=TW
# Not Valid Before: Fri Sep 28 08:58:51 2012
# Not Valid After: Thu Dec 31 15:59:59 2037
# Fingerprint (MD5): 2f:d4:2d:cd:86:7f:36:b0:5f:1c:e0:53:8d:b6:a2:5b
# Fingerprint (SHA1): b0:91:aa:91:38:47:f3:13:d7:27:bc:ef:c8:17:9f:08:6f:3a:8c:0f
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Government Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\077\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\060\060\056\006\003\125\004\012\014\047\107\157\166\145\162\156
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\155\145\156\164\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\077\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\060\060\056\006\003\125\004\012\014\047\107\157\166\145\162\156
\155\145\156\164\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\266\113\210\007\342\043\356\310\134\022\255\246\016
\006\241\362
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\113\060\202\003\063\240\003\002\001\002\002\021\000
\266\113\210\007\342\043\356\310\134\022\255\246\016\006\241\362
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\077\061\013\060\011\006\003\125\004\006\023\002\124\127\061\060
\060\056\006\003\125\004\012\014\047\107\157\166\145\162\156\155
\145\156\164\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\060\036\027\015\061\062\060\071\062\070\060\070\065\070\065\061
\132\027\015\063\067\061\062\063\061\061\065\065\071\065\071\132
\060\077\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\060\060\056\006\003\125\004\012\014\047\107\157\166\145\162\156
\155\145\156\164\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002
\001\000\266\377\227\074\201\276\001\130\044\047\257\216\001\053
\326\162\222\060\062\033\137\233\174\324\324\177\350\241\140\163
\060\127\020\000\372\120\226\044\376\120\346\214\072\225\321\127
\171\204\325\147\123\014\052\202\076\030\134\270\060\046\032\326
\136\306\055\262\004\121\016\357\337\014\143\107\353\304\022\010
\121\053\231\161\136\325\151\173\341\135\311\167\035\040\354\126
\216\345\141\140\055\374\351\034\200\337\372\152\203\273\005\265
\036\043\022\234\202\312\012\363\024\035\040\344\006\217\103\044
\231\237\266\012\223\132\163\033\026\071\276\005\266\361\214\245
\144\222\217\005\344\134\166\367\071\303\317\055\275\016\330\313
\250\016\061\233\311\106\017\147\123\103\004\217\310\262\310\203
\200\137\272\362\017\253\201\065\242\040\041\227\316\017\211\064
\170\017\317\037\116\351\373\214\050\074\336\064\347\355\237\322
\146\365\305\312\061\170\322\316\120\321\140\202\143\235\340\114
\367\007\256\203\064\235\111\111\103\324\176\275\055\342\352\307
\161\145\200\010\344\066\236\171\160\012\074\207\051\351\344\222

\224\352\006\222\051\047\170\346\255\327\075\351\012\013\136\364
\340\326\206\235\055\162\313\213\144\126\346\364\256\170\245\240
\071\063\130\074\334\250\217\215\264\152\055\375\210\163\351\225
\120\163\004\337\021\210\076\102\326\002\164\373\054\304\157\274
\154\326\340\200\157\321\206\245\062\127\003\326\115\364\116\012
\231\042\166\176\112\100\202\370\311\344\116\313\123\055\307\261
\266\342\323\302\165\047\156\271\016\161\262\064\374\277\034\116
\302\075\370\066\351\012\314\130\232\241\030\206\116\342\341\252
\263\163\131\156\136\235\264\302\010\257\257\134\375\244\002\157
\377\270\015\273\325\253\327\156\237\032\117\221\100\360\037\106
\125\155\240\222\303\211\315\267\261\377\034\263\313\243\234\012
\343\376\315\252\274\001\354\335\124\312\221\335\117\023\207\244
\366\230\357\375\111\326\127\052\074\246\134\366\140\067\277\330
\076\176\116\150\052\043\062\072\276\156\344\042\075\007\044\317
\212\313\233\135\121\263\060\322\161\155\316\106\212\155\174\112
\063\104\332\022\057\066\113\362\351\361\121\011\155\333\152\227
\016\027\002\003\001\000\001\243\102\060\100\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003
\125\035\016\004\026\004\024\325\147\035\340\234\172\054\234\313
\305\230\347\035\007\046\052\206\354\164\315\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\006\060\015\006\011\052
\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000\220
\073\345\302\123\102\050\352\365\061\116\216\075\221\236\115\011
\363\330\261\122\346\117\254\014\061\041\273\361\352\231\314\203
\374\266\050\344\354\204\007\016\017\116\227\273\157\150\106\217
\016\121\025\225\370\072\073\037\137\202\016\014\161\016\274\221
\117\256\063\056\043\101\364\046\153\117\023\207\372\170\366\056
\302\017\221\005\227\252\152\301\152\237\274\204\236\010\052\047
\335\332\207\027\206\341\263\312\135\355\070\251\051\156\204\336
\106\153\374\047\031\120\245\022\172\214\175\142\374\332\347\314
\274\237\111\257\006\270\047\047\362\211\367\026\075\030\346\275
\336\365\214\022\221\237\343\004\215\376\007\024\032\132\254\071
\202\033\361\070\031\341\143\343\257\154\266\246\121\027\353\372
\113\353\213\042\366\227\376\020\072\137\224\240\113\123\161\077
\132\341\020\370\162\217\226\200\335\215\002\230\000\141\075\215
\274\055\261\107\314\332\135\341\040\247\214\061\134\361\343\332
\271\012\206\107\310\241\075\007\243\074\246\163\156\224\221\355
\156\044\072\371\311\060\321\007\250\201\175\046\175\175\204\337
\206\311\213\345\256\015\036\276\211\110\121\025\203\230\226\057
\112\353\163\064\327\164\315\311\157\320\302\272\053\366\232\376
\231\335\140\024\216\033\371\234\071\074\177\103\211\123\350\345
\302\253\276\042\255\047\070\233\167\050\267\243\143\143\247\201
\347\251\151\105\353\216\170\126\314\005\204\307\373\255\266\060
\174\143\005\237\055\214\044\177\113\213\222\374\070\036\237\240
\245\127\263\156\235\330\144\270\160\232\140\122\160\310\251\320
\377\306\234\355\020\141\136\315\203\016\156\350\115\002\101\112
\342\166\004\171\326\124\077\212\230\062\024\240\335\055\234\347
\272\202\161\243\206\125\051\231\322\051\333\165\072\367\333\103

\377\266\133\373\267\176\065\200\216\015\154\256\171\267\066\055
\227\122\241\260\007\234\007\345\053\066\315\003\227\224\275\055
\016\064\006\374\300\026\211\374\067\124\344\326\317\075\023\004
\362\221\331\311\066\056\076\305\132\320\245\114\202\303\377\056
\174\046\166\367\363\375\105\242\245\156\125\256\056\314\317\054
\211\064\332\366\015\347\221\250\020\352\027\235\362\366\354
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Government Root Certification Authority"
Issuer: O=Government Root Certification Authority,C=TW
Serial Number:b6:4b:88:07:e2:23:ee:c8:5c:12:ad:a6:0e:06:a1:f2
Subject: O=Government Root Certification Authority,C=TW
Not Valid Before: Fri Sep 28 08:58:51 2012
Not Valid After: Thu Dec 31 15:59:59 2037
Fingerprint (MD5): 2f:d4:2d:cd:86:7f:36:b0:5f:1c:e0:53:8d:b6:a2:5b
Fingerprint (SHA1): b0:91:aa:91:38:47:f3:13:d7:27:bc:ef:c8:17:9f:08:6f:3a:8c:0f
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Government Root Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\260\221\252\221\070\107\363\023\327\047\274\357\310\027\237\010
\157\072\214\017
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\057\324\055\315\206\177\066\260\137\034\340\123\215\266\242\133
END
CKA_ISSUER MULTILINE_OCTAL
\060\077\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\060\060\056\006\003\125\004\012\014\047\107\157\166\145\162\156
\155\145\156\164\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\266\113\210\007\342\043\356\310\134\022\255\246\016
\006\241\362
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "A-Trust-Qual-02"
Issuer: CN=A-Trust-Qual-02,OU=A-Trust-Qual-02,O=A-Trust Ges. f. Sicherheitssysteme im elektr. Datenverkehr GmbH,C=AT
Serial Number:14:4d:e4
Subject: CN=A-Trust-Qual-02,OU=A-Trust-Qual-02,O=A-Trust Ges. f. Sicherheitssysteme im elektr. Datenverkehr GmbH,C=AT
Not Valid Before: Tue Jul 01 11:23:33 2014
Not Valid After: Mon Jul 01 09:23:33 2024
Fingerprint (MD5): 4b:d4:35:43:a8:b2:43:6d:d7:78:e2:89:a2:a9:39:ab
Fingerprint (SHA1): cd:78:7a:3d:5c:ba:82:07:08:28:48:36:5e:9a:cd:e9:68:33:64:d8
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "A-Trust-Qual-02"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\213\061\013\060\011\006\003\125\004\006\023\002\101\124
\061\110\060\106\006\003\125\004\012\014\077\101\055\124\162\165
\163\164\040\107\145\163\056\040\146\056\040\123\151\143\150\145
\162\150\145\151\164\163\163\171\163\164\145\155\145\040\151\155
\040\145\154\145\153\164\162\056\040\104\141\164\145\156\166\145
\162\153\145\150\162\040\107\155\142\110\061\030\060\026\006\003
\125\004\013\014\017\101\055\124\162\165\163\164\055\121\165\141
\154\055\060\062\061\030\060\026\006\003\125\004\003\014\017\101
\055\124\162\165\163\164\055\121\165\141\154\055\060\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\213\061\013\060\011\006\003\125\004\006\023\002\101\124
\061\110\060\106\006\003\125\004\012\014\077\101\055\124\162\165
\163\164\040\107\145\163\056\040\146\056\040\123\151\143\150\145
\162\150\145\151\164\163\163\171\163\164\145\155\145\040\151\155
\040\145\154\145\153\164\162\056\040\104\141\164\145\156\166\145
\162\153\145\150\162\040\107\155\142\110\061\030\060\026\006\003
\125\004\013\014\017\101\055\124\162\165\163\164\055\121\165\141
\154\055\060\062\061\030\060\026\006\003\125\004\003\014\017\101
\055\124\162\165\163\164\055\121\165\141\154\055\060\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\024\115\344
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\313\060\202\002\263\240\003\002\001\002\002\003\024
\115\344\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\000\060\201\213\061\013\060\011\006\003\125\004\006\023\002\101
\124\061\110\060\106\006\003\125\004\012\014\077\101\055\124\162

\165\163\164\040\107\145\163\056\040\146\056\040\123\151\143\150
\145\162\150\145\151\164\163\163\171\163\164\145\155\145\040\151
\155\040\145\154\145\153\164\162\056\040\104\141\164\145\156\166
\145\162\153\145\150\162\040\107\155\142\110\061\030\060\026\006
\003\125\004\013\014\017\101\055\124\162\165\163\164\055\121\165
\141\154\055\060\062\061\030\060\026\006\003\125\004\003\014\017
\101\055\124\162\165\163\164\055\121\165\141\154\055\060\062\060
\036\027\015\061\064\060\067\060\061\061\061\062\063\063\063\132
\027\015\062\064\060\067\060\061\060\071\062\063\063\063\132\060
\201\213\061\013\060\011\006\003\125\004\006\023\002\101\124\061
\110\060\106\006\003\125\004\012\014\077\101\055\124\162\165\163
\164\040\107\145\163\056\040\146\056\040\123\151\143\150\145\162
\150\145\151\164\163\163\171\163\164\145\155\145\040\151\155\040
\145\154\145\153\164\162\056\040\104\141\164\145\156\166\145\162
\153\145\150\162\040\107\155\142\110\061\030\060\026\006\003\125
\004\013\014\017\101\055\124\162\165\163\164\055\121\165\141\154
\055\060\062\061\030\060\026\006\003\125\004\003\014\017\101\055
\124\162\165\163\164\055\121\165\141\154\055\060\062\060\202\001
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000
\003\202\001\017\000\060\202\001\012\002\202\001\001\000\226\221
\253\327\216\260\131\270\001\275\264\036\255\231\375\241\374\352
\014\226\153\217\056\111\110\330\351\344\044\202\341\330\272\314
\353\336\007\134\110\306\031\202\001\107\102\011\341\174\271\237
\256\217\366\356\136\153\250\250\126\210\070\126\263\346\376\311
\235\117\064\070\121\074\234\276\363\254\234\034\310\075\134\232
\204\256\367\224\054\024\262\144\067\140\216\024\260\073\052\315
\211\265\042\257\367\344\177\356\054\053\063\371\216\074\255\114
\242\127\017\373\202\305\216\037\001\337\123\214\301\025\244\335
\356\232\222\022\322\050\351\142\027\045\140\061\357\317\061\224
\363\175\363\344\074\041\253\220\374\155\317\143\247\306\022\000
\161\111\327\034\310\240\355\143\232\175\343\217\050\335\140\371
\330\346\026\253\046\321\320\057\275\347\015\011\337\156\324\354
\345\070\123\364\144\013\272\132\314\200\265\070\131\354\200\131
\145\204\061\152\137\125\221\114\044\345\044\232\203\204\172\276
\200\361\356\137\040\007\252\167\027\154\013\342\125\252\226\170
\010\002\236\227\360\053\256\130\365\200\120\077\376\073\002\003
\001\000\001\243\066\060\064\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\021\006\003\125\035\016\004
\012\004\010\102\075\053\044\246\301\105\316\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\006\060\015\006\011\052
\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000\141
\061\363\210\065\011\270\136\234\305\350\071\244\072\146\377\002
\264\227\035\376\113\071\272\205\230\203\050\240\332\366\116\114
\263\255\104\312\374\321\076\231\332\346\327\224\137\166\333\073
\221\225\152\374\200\237\101\041\136\150\373\326\150\005\152\342
\231\107\377\156\216\216\363\023\126\376\303\176\007\317\005\114
\103\132\251\102\270\071\303\234\360\025\103\354\250\376\216\142
\004\016\156\122\123\033\247\234\347\154\073\145\307\001\177\346

\005\252\162\177\341\053\024\224\010\375\156\210\343\310\224\247
\336\126\373\021\230\027\011\001\332\042\305\063\077\041\315\164
\245\253\311\060\143\210\333\112\047\002\273\320\144\005\004\155
\164\013\003\307\054\362\166\261\174\136\201\243\176\224\366\171
\072\302\176\352\361\123\327\205\130\236\220\034\235\327\261\172
\364\017\232\207\102\052\303\204\217\177\320\152\065\022\036\325
\214\161\214\070\102\232\065\255\335\252\062\023\166\105\006\341
\243\133\352\366\212\226\377\274\145\065\373\152\062\313\141\135
\331\323\046\210\304\073\200\150\126\137\325\372\201\142\335
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "A-Trust-Qual-02"
Issuer: CN=A-Trust-Qual-02,OU=A-Trust-Qual-02,O=A-Trust Ges. f. Sicherheitssysteme im elektr. Datenverkehr GmbH,C=AT
Serial Number:14:4d:e4
Subject: CN=A-Trust-Qual-02,OU=A-Trust-Qual-02,O=A-Trust Ges. f. Sicherheitssysteme im elektr. Datenverkehr GmbH,C=AT
Not Valid Before: Tue Jul 01 11:23:33 2014
Not Valid After: Mon Jul 01 09:23:33 2024
Fingerprint (MD5): 4b:d4:35:43:a8:b2:43:6d:d7:78:e2:89:a2:a9:39:ab
Fingerprint (SHA1): cd:78:7a:3d:5c:ba:82:07:08:28:48:36:5e:9a:cd:e9:68:33:64:d8
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "A-Trust-Qual-02"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\315\170\172\075\134\272\202\007\010\050\110\066\136\232\315\351
\150\063\144\330
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\113\324\065\103\250\262\103\155\327\170\342\211\242\251\071\253
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\213\061\013\060\011\006\003\125\004\006\023\002\101\124
\061\110\060\106\006\003\125\004\012\014\077\101\055\124\162\165
\163\164\040\107\145\163\056\040\146\056\040\123\151\143\150\145
\162\150\145\151\164\163\163\171\163\164\145\155\145\040\151\155
\040\145\154\145\153\164\162\056\040\104\141\164\145\156\166\145
\162\153\145\150\162\040\107\155\142\110\061\030\060\026\006\003
\125\004\013\014\017\101\055\124\162\165\163\164\055\121\165\141
\154\055\060\062\061\030\060\026\006\003\125\004\003\014\017\101
\055\124\162\165\163\164\055\121\165\141\154\055\060\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\024\115\344
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Thailand National Root Certification Authority - G1"
Issuer: CN=Thailand National Root Certification Authority - G1,OU=Thailand National Root Certification Authority,O=Electronic Transactions Development Agency (Public Organization),C=TH
Serial Number:51:52:c5:8c
Subject: CN=Thailand National Root Certification Authority - G1,OU=Thailand National Root Certification Authority,O=Electronic Transactions Development Agency (Public Organization),C=TH
Not Valid Before: Wed Mar 27 09:40:22 2013
Not Valid After: Thu Mar 27 10:10:22 2036
Fingerprint (MD5): da:9d:b6:26:4a:e5:22:a0:bb:8d:a4:f7:bc:0d:25:cc
Fingerprint (SHA1): 66:f2:dc:fb:3f:81:4d:de:e9:b3:20:6f:11:de:fe:1b:fb:df:e1:32
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Thailand National Root Certification Authority - G1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\317\061\013\060\011\006\003\125\004\006\023\002\124\110
\061\111\060\107\006\003\125\004\012\014\100\105\154\145\143\164
\162\157\156\151\143\040\124\162\141\156\163\141\143\164\151\157
\156\163\040\104\145\166\145\154\157\160\155\145\156\164\040\101
\147\145\156\143\171\040\050\120\165\142\154\151\143\040\117\162
\147\141\156\151\172\141\164\151\157\156\051\061\067\060\065\006
\003\125\004\013\014\056\124\150\141\151\154\141\156\144\040\116
\141\164\151\157\156\141\154\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171\061\074\060\072\006\003\125\004\003\014\063\124
\150\141\151\154\141\156\144\040\116\141\164\151\157\156\141\154
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040
\107\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\317\061\013\060\011\006\003\125\004\006\023\002\124\110
\061\111\060\107\006\003\125\004\012\014\100\105\154\145\143\164
\162\157\156\151\143\040\124\162\141\156\163\141\143\164\151\157
\156\163\040\104\145\166\145\154\157\160\155\145\156\164\040\101
\147\145\156\143\171\040\050\120\165\142\154\151\143\040\117\162

\147\141\156\151\172\141\164\151\157\156\051\061\067\060\065\006
\003\125\004\013\014\056\124\150\141\151\154\141\156\144\040\116
\141\164\151\157\156\141\154\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171\061\074\060\072\006\003\125\004\003\014\063\124
\150\141\151\154\141\156\144\040\116\141\164\151\157\156\141\154
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040
\107\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\121\122\305\214
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\201\060\202\004\151\240\003\002\001\002\002\004\121
\122\305\214\060\015\006\011\052\206\110\206\367\015\001\001\015
\005\000\060\201\317\061\013\060\011\006\003\125\004\006\023\002
\124\110\061\111\060\107\006\003\125\004\012\014\100\105\154\145
\143\164\162\157\156\151\143\040\124\162\141\156\163\141\143\164
\151\157\156\163\040\104\145\166\145\154\157\160\155\145\156\164
\040\101\147\145\156\143\171\040\050\120\165\142\154\151\143\040
\117\162\147\141\156\151\172\141\164\151\157\156\051\061\067\060
\065\006\003\125\004\013\014\056\124\150\141\151\154\141\156\144
\040\116\141\164\151\157\156\141\154\040\122\157\157\164\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\061\074\060\072\006\003\125\004\003\014
\063\124\150\141\151\154\141\156\144\040\116\141\164\151\157\156
\141\154\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040
\055\040\107\061\060\036\027\015\061\063\060\063\062\067\060\071
\064\060\062\062\132\027\015\063\066\060\063\062\067\061\060\061
\060\062\062\132\060\201\317\061\013\060\011\006\003\125\004\006
\023\002\124\110\061\111\060\107\006\003\125\004\012\014\100\105
\154\145\143\164\162\157\156\151\143\040\124\162\141\156\163\141
\143\164\151\157\156\163\040\104\145\166\145\154\157\160\155\145
\156\164\040\101\147\145\156\143\171\040\050\120\165\142\154\151
\143\040\117\162\147\141\156\151\172\141\164\151\157\156\051\061
\067\060\065\006\003\125\004\013\014\056\124\150\141\151\154\141
\156\144\040\116\141\164\151\157\156\141\154\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\061\074\060\072\006\003\125\004
\003\014\063\124\150\141\151\154\141\156\144\040\116\141\164\151
\157\156\141\154\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\040\055\040\107\061\060\202\002\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202
\002\012\002\202\002\001\000\326\272\112\344\214\361\232\056\211
\027\302\100\363\202\000\061\376\023\002\172\145\312\010\330\253

\042\261\002\232\161\064\112\144\131\202\345\102\106\353\043\366
\213\132\042\261\317\066\347\163\155\024\155\367\111\224\136\357
\347\064\131\147\366\250\317\126\131\043\204\125\342\373\032\021
\312\243\371\212\253\147\036\202\023\320\213\071\232\277\017\302
\017\074\326\141\330\352\233\317\025\016\276\324\360\314\077\163
\234\004\364\242\161\163\175\200\260\235\061\361\006\371\260\023
\345\210\111\060\366\026\175\210\127\051\072\054\242\214\220\230
\316\021\026\316\115\121\017\374\307\262\314\362\146\030\041\200
\005\210\255\271\320\305\013\170\001\376\116\322\010\213\066\361
\126\317\156\272\163\046\013\326\367\245\106\152\151\116\226\266
\247\006\126\314\346\056\061\237\156\213\355\234\000\125\107\364
\173\246\172\266\337\001\035\110\004\013\253\102\302\160\112\224
\275\374\254\121\362\253\077\326\353\140\337\010\377\365\022\262
\211\052\172\271\105\231\045\175\174\357\317\025\320\110\054\020
\326\324\274\010\047\265\206\051\324\343\323\304\052\220\022\366
\242\052\371\213\257\026\377\002\363\172\156\317\242\313\152\264
\340\162\013\373\076\205\177\342\207\340\057\103\043\370\205\311
\231\352\326\100\336\240\373\347\336\166\377\217\200\071\353\147
\022\023\246\373\345\243\374\046\200\131\143\362\322\043\353\037
\306\110\163\121\235\267\263\240\133\253\152\210\371\277\373\161
\121\334\156\266\166\357\260\133\362\313\210\060\272\006\333\033
\101\323\125\264\255\264\352\040\041\374\324\167\266\075\133\241
\014\055\045\041\122\043\122\327\064\123\155\026\004\122\146\370
\325\352\361\054\130\362\073\261\361\176\103\265\334\202\270\136
\343\207\341\243\244\137\347\211\016\274\234\351\051\072\045\247
\330\117\152\207\324\226\104\227\030\026\207\302\161\122\205\316
\172\214\255\036\147\276\272\055\277\243\041\047\305\347\060\351
\006\231\033\260\014\343\276\122\145\223\115\141\113\362\070\346
\217\030\361\002\122\230\056\246\016\035\005\317\046\354\001\043
\007\066\366\340\023\067\251\107\210\003\207\107\313\335\262\001
\037\137\144\033\004\233\305\002\003\001\000\001\243\143\060\141
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\006\060\037\006\003\125\035\043\004\030\060\026\200\024\177\043
\166\267\203\052\161\367\054\321\210\017\335\114\137\062\012\150
\273\177\060\035\006\003\125\035\016\004\026\004\024\177\043\166
\267\203\052\161\367\054\321\210\017\335\114\137\062\012\150\273
\177\060\015\006\011\052\206\110\206\367\015\001\001\015\005\000
\003\202\002\001\000\015\145\034\132\007\251\236\254\114\311\137
\117\335\061\154\331\342\123\035\077\221\215\132\263\214\275\064
\236\056\115\312\130\323\257\131\142\111\066\163\260\141\166\021
\276\213\066\307\224\252\370\066\151\007\040\337\134\057\013\366
\216\002\026\357\122\006\070\335\355\064\140\252\207\136\027\316
\070\155\120\115\345\337\345\121\276\035\004\226\364\334\352\345
\331\352\216\336\237\164\313\202\224\123\201\154\373\136\054\325
\241\165\226\115\373\060\134\315\141\240\236\241\314\202\271\122
\162\013\207\143\141\173\141\064\164\266\056\335\342\341\207\265
\111\024\141\025\107\112\113\076\167\271\010\322\066\117\130\147

\102\211\200\170\132\022\043\355\105\073\335\277\040\046\124\374
\133\077\140\001\030\101\343\147\165\023\267\052\025\160\314\313
\171\322\024\370\363\302\340\052\020\367\371\102\330\334\332\012
\323\001\005\333\127\230\311\266\353\014\231\012\312\214\175\357
\073\026\050\300\367\137\341\107\121\323\370\006\105\007\360\013
\272\302\234\230\354\322\177\115\176\375\006\374\163\302\302\125
\022\142\320\043\104\337\042\344\370\171\347\245\020\116\076\311
\216\252\203\351\066\352\253\171\306\005\204\315\226\150\174\164
\254\077\062\377\256\311\100\354\217\120\277\120\250\267\116\325
\255\066\152\327\047\063\372\347\330\055\331\067\230\205\033\246
\014\352\173\020\023\160\036\236\210\305\334\076\216\271\015\125
\337\001\316\320\111\166\121\333\020\142\170\101\255\151\143\245
\225\011\267\030\006\157\375\004\147\324\020\017\116\333\073\137
\014\143\174\353\144\275\156\113\000\250\201\372\222\062\206\060
\214\011\277\175\130\077\145\015\251\067\321\105\343\146\151\304
\150\364\142\251\250\036\067\331\056\231\111\240\260\006\214\100
\177\205\261\365\361\114\113\070\240\010\314\052\331\226\300\354
\300\015\074\056\105\127\303\357\225\332\266\313\356\133\145\250
\053\062\257\311\047\371\025\123\067\165\130\037\113\352\227\242
\042\134\147\126\342\240\314\065\304\254\303\061\100\271\234\003
\172\275\311\110\016\352\152\025\332\234\274\170\157\311\025\347
\144\003\331\111\023\146\105\113\055\364\204\231\263\352\247\022
\225\345\223\056\374
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Thailand National Root Certification Authority - G1"
Issuer: CN=Thailand National Root Certification Authority - G1,OU=Thailand National Root Certification Authority,O=Electronic Transactions Development Agency (Public Organization),C=TH
Serial Number:51:52:c5:8c
Subject: CN=Thailand National Root Certification Authority - G1,OU=Thailand National Root Certification Authority,O=Electronic Transactions Development Agency (Public Organization),C=TH
Not Valid Before: Wed Mar 27 09:40:22 2013
Not Valid After: Thu Mar 27 10:10:22 2036
Fingerprint (MD5): da:9d:b6:26:4a:e5:22:a0:bb:8d:a4:f7:bc:0d:25:cc
Fingerprint (SHA1): 66:f2:dc:fb:3f:81:4d:de:e9:b3:20:6f:11:de:fe:1b:fb:df:e1:32
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Thailand National Root Certification Authority - G1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\146\362\334\373\077\201\115\336\351\263\040\157\021\336\376\033
\373\337\341\062
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\332\235\266\046\112\345\042\240\273\215\244\367\274\015\045\314
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\317\061\013\060\011\006\003\125\004\006\023\002\124\110
\061\111\060\107\006\003\125\004\012\014\100\105\154\145\143\164
\162\157\156\151\143\040\124\162\141\156\163\141\143\164\151\157
\156\163\040\104\145\166\145\154\157\160\155\145\156\164\040\101
\147\145\156\143\171\040\050\120\165\142\154\151\143\040\117\162
\147\141\156\151\172\141\164\151\157\156\051\061\067\060\065\006
\003\125\004\013\014\056\124\150\141\151\154\141\156\144\040\116
\141\164\151\157\156\141\154\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171\061\074\060\072\006\003\125\004\003\014\063\124
\150\141\151\154\141\156\144\040\116\141\164\151\157\156\141\154
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040
\107\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\121\122\305\214
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Certification Authority of WoSign"
Issuer: CN=Certification Authority of WoSign,O=WoSign CA Limited,C=CN
Serial Number:5e:68:d6:11:71:94:63:50:56:00:68:f3:3e:c9:c5:91
Subject: CN=Certification Authority of WoSign,O=WoSign CA Limited,C=CN
Not Valid Before: Sat Aug 08 01:00:01 2009
Not Valid After: Mon Aug 08 01:00:01 2039
Fingerprint (MD5): a1:f2:f9:b5:d2:c8:7a:74:b8:f3:05:f1:d7:e1:84:8d
Fingerprint (SHA1): b9:42:94:bf:91:ea:8f:b6:4b:e6:10:97:c7:fb:00:13:59:b6:76:cb
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certification Authority of WoSign"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\125\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\032\060\030\006\003\125\004\012\023\021\127\157\123\151\147\156
\040\103\101\040\114\151\155\151\164\145\144\061\052\060\050\006
\003\125\004\003\023\041\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\157\146

\040\127\157\123\151\147\156
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\125\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\032\060\030\006\003\125\004\012\023\021\127\157\123\151\147\156
\040\103\101\040\114\151\155\151\164\145\144\061\052\060\050\006
\003\125\004\003\023\041\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\157\146
\040\127\157\123\151\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\136\150\326\021\161\224\143\120\126\000\150\363\076\311
\305\221
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\166\060\202\003\136\240\003\002\001\002\002\020\136
\150\326\021\161\224\143\120\126\000\150\363\076\311\305\221\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\125
\061\013\060\011\006\003\125\004\006\023\002\103\116\061\032\060
\030\006\003\125\004\012\023\021\127\157\123\151\147\156\040\103
\101\040\114\151\155\151\164\145\144\061\052\060\050\006\003\125
\004\003\023\041\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\040\157\146\040\127
\157\123\151\147\156\060\036\027\015\060\071\060\070\060\070\060
\061\060\060\060\061\132\027\015\063\071\060\070\060\070\060\061
\060\060\060\061\132\060\125\061\013\060\011\006\003\125\004\006
\023\002\103\116\061\032\060\030\006\003\125\004\012\023\021\127
\157\123\151\147\156\040\103\101\040\114\151\155\151\164\145\144
\061\052\060\050\006\003\125\004\003\023\041\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\157\146\040\127\157\123\151\147\156\060\202\002\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\002\017\000\060\202\002\012\002\202\002\001\000\275\312\215
\254\270\221\025\126\227\173\153\134\172\302\336\153\331\241\260
\303\020\043\372\247\241\262\314\061\372\076\331\246\051\157\026
\075\340\153\370\270\100\137\333\071\250\000\172\213\240\115\124
\175\302\042\170\374\216\011\270\250\205\327\314\225\227\113\164
\330\236\176\360\000\344\016\211\256\111\050\104\032\020\231\062
\017\045\210\123\244\015\263\017\022\010\026\013\003\161\047\034
\177\341\333\322\375\147\150\304\005\135\012\016\135\160\327\330
\227\240\274\123\101\232\221\215\364\236\066\146\172\176\126\301
\220\137\346\261\150\040\066\244\214\044\054\054\107\013\131\166
\146\060\265\276\336\355\217\370\235\323\273\001\060\346\362\363
\016\340\054\222\200\363\205\371\050\212\264\124\056\232\355\367
\166\374\025\150\026\353\112\154\353\056\022\217\324\317\376\014
\307\134\035\013\176\005\062\276\136\260\011\052\102\325\311\116
\220\263\131\015\273\172\176\315\325\010\132\264\177\330\034\151

\021\371\047\017\173\006\257\124\203\030\173\341\335\124\172\121
\150\156\167\374\306\277\122\112\146\106\241\262\147\032\273\243
\117\167\240\276\135\377\374\126\013\103\162\167\220\312\236\371
\362\071\365\015\251\364\352\327\347\263\020\057\060\102\067\041
\314\060\160\311\206\230\017\314\130\115\203\273\175\345\032\245
\067\215\266\254\062\227\000\072\143\161\044\036\236\067\304\377
\164\324\067\300\342\376\210\106\140\021\335\010\077\120\066\253
\270\172\244\225\142\152\156\260\312\152\041\132\151\363\363\373
\035\160\071\225\363\247\156\246\201\211\241\210\305\073\161\312
\243\122\356\203\273\375\240\167\364\344\157\347\102\333\155\112
\231\212\064\110\274\027\334\344\200\010\042\266\362\061\300\077
\004\076\353\237\040\171\326\270\006\144\144\002\061\327\251\315
\122\373\204\105\151\011\000\052\334\125\213\304\006\106\113\300
\112\035\011\133\071\050\375\251\253\316\000\371\056\110\113\046
\346\060\114\245\130\312\264\104\202\117\347\221\036\063\303\260
\223\377\021\374\201\322\312\037\161\051\335\166\117\222\045\257
\035\201\267\017\057\214\303\006\314\057\047\243\112\344\016\231
\272\174\036\105\037\177\252\031\105\226\375\374\075\002\003\001
\000\001\243\102\060\100\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026
\004\024\341\146\317\016\321\361\263\113\267\006\040\024\376\207
\022\325\366\376\373\076\060\015\006\011\052\206\110\206\367\015
\001\001\005\005\000\003\202\002\001\000\250\313\162\100\262\166
\301\176\173\374\255\144\343\062\173\314\074\266\135\106\323\365
\054\342\160\135\310\056\330\006\175\230\321\013\041\240\211\131
\044\001\235\371\257\011\175\012\043\202\064\325\374\174\162\231
\271\243\327\124\364\352\122\160\016\305\365\326\073\341\072\011
\062\346\041\071\223\275\263\025\352\117\152\364\365\213\077\057
\174\215\130\056\305\341\071\240\076\307\075\112\163\236\100\172
\300\053\141\251\147\311\363\044\271\263\155\125\054\132\035\236
\045\162\316\013\255\252\307\125\142\013\276\373\143\263\141\104
\043\243\313\341\032\016\367\232\006\115\336\324\043\116\041\226
\133\071\133\127\035\057\135\010\136\011\171\377\174\227\265\115
\203\256\015\326\346\243\171\340\063\320\231\226\002\060\247\076
\377\322\243\103\077\005\132\006\352\104\002\332\174\370\110\320
\063\251\371\007\307\225\341\365\076\365\135\161\272\362\225\251
\164\210\141\131\343\277\312\132\023\272\162\264\214\135\066\207
\351\246\305\074\023\277\336\320\104\046\356\267\354\056\160\372
\327\235\267\254\345\305\100\132\346\327\154\173\054\303\126\233
\107\315\013\316\372\033\264\041\327\267\146\270\364\045\060\213
\134\015\271\352\147\262\364\155\256\325\241\236\117\330\237\351
\047\002\260\035\006\326\217\343\373\110\022\237\177\021\241\020
\076\114\121\072\226\260\321\023\361\307\330\046\256\072\312\221
\304\151\235\337\001\051\144\121\157\150\332\024\354\010\101\227
\220\215\320\262\200\362\317\302\075\277\221\150\305\200\147\036
\304\140\023\125\325\141\231\127\174\272\225\017\141\111\072\312
\165\274\311\012\223\077\147\016\022\362\050\342\061\033\300\127

\026\337\010\174\031\301\176\017\037\205\036\012\066\174\133\176
\047\274\172\277\340\333\364\332\122\275\336\014\124\160\061\221
\103\225\310\274\360\076\335\011\176\060\144\120\355\177\001\244
\063\147\115\150\117\276\025\357\260\366\002\021\242\033\023\045
\072\334\302\131\361\343\134\106\273\147\054\002\106\352\036\110
\246\346\133\331\265\274\121\242\222\226\333\252\306\067\042\246
\376\314\040\164\243\055\251\056\153\313\300\202\021\041\265\223
\171\356\104\206\276\327\036\344\036\373
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Certification Authority of WoSign"
Issuer: CN=Certification Authority of WoSign,O=WoSign CA Limited,C=CN
Serial Number:5e:68:d6:11:71:94:63:50:56:00:68:f3:3e:c9:c5:91
Subject: CN=Certification Authority of WoSign,O=WoSign CA Limited,C=CN
Not Valid Before: Sat Aug 08 01:00:01 2009
Not Valid After: Mon Aug 08 01:00:01 2039
Fingerprint (MD5): a1:f2:f9:b5:d2:c8:7a:74:b8:f3:05:f1:d7:e1:84:8d
Fingerprint (SHA1): b9:42:94:bf:91:ea:8f:b6:4b:e6:10:97:c7:fb:00:13:59:b6:76:cb
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certification Authority of WoSign"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\271\102\224\277\221\352\217\266\113\346\020\227\307\373\000\023
\131\266\166\313
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\241\362\371\265\322\310\172\164\270\363\005\361\327\341\204\215
END
CKA_ISSUER MULTILINE_OCTAL
\060\125\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\032\060\030\006\003\125\004\012\023\021\127\157\123\151\147\156
\040\103\101\040\114\151\155\151\164\145\144\061\052\060\050\006
\003\125\004\003\023\041\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\157\146
\040\127\157\123\151\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\136\150\326\021\161\224\143\120\126\000\150\363\076\311
\305\221
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "CA "
Issuer: CN=CA ,O=WoSign CA Limited,C=CN
Serial Number:50:70:6b:cd:d8:13:fc:1b:4e:3b:33:72:d2:11:48:8d
Subject: CN=CA ,O=WoSign CA Limited,C=CN
Not Valid Before: Sat Aug 08 01:00:01 2009
Not Valid After: Mon Aug 08 01:00:01 2039
Fingerprint (MD5): 78:83:5b:52:16:76:c4:24:3b:83:78:e8:ac:da:9a:93
Fingerprint (SHA1): 16:32:47:8d:89:f9:21:3a:92:00:85:63:f5:a4:a7:d3:12:40:8a:d6
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CA "
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\032\060\030\006\003\125\004\012\023\021\127\157\123\151\147\156
\040\103\101\040\114\151\155\151\164\145\144\061\033\060\031\006
\003\125\004\003\014\022\103\101\040\346\262\203\351\200\232\346
\240\271\350\257\201\344\271\246
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\032\060\030\006\003\125\004\012\023\021\127\157\123\151\147\156
\040\103\101\040\114\151\155\151\164\145\144\061\033\060\031\006
\003\125\004\003\014\022\103\101\040\346\262\203\351\200\232\346
\240\271\350\257\201\344\271\246
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\120\160\153\315\330\023\374\033\116\073\063\162\322\021
\110\215
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\130\060\202\003\100\240\003\002\001\002\002\020\120
\160\153\315\330\023\374\033\116\073\063\162\322\021\110\215\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\106
\061\013\060\011\006\003\125\004\006\023\002\103\116\061\032\060
\030\006\003\125\004\012\023\021\127\157\123\151\147\156\040\103
\101\040\114\151\155\151\164\145\144\061\033\060\031\006\003\125
\004\003\014\022\103\101\040\346\262\203\351\200\232\346\240\271
\350\257\201\344\271\246\060\036\027\015\060\071\060\070\060\070
\060\061\060\060\060\061\132\027\015\063\071\060\070\060\070\060
\061\060\060\060\061\132\060\106\061\013\060\011\006\003\125\004

\006\023\002\103\116\061\032\060\030\006\003\125\004\012\023\021
\127\157\123\151\147\156\040\103\101\040\114\151\155\151\164\145
\144\061\033\060\031\006\003\125\004\003\014\022\103\101\040\346
\262\203\351\200\232\346\240\271\350\257\201\344\271\246\060\202
\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\320
\111\041\036\045\374\207\301\052\302\254\333\166\206\006\116\347
\320\164\064\334\355\145\065\374\120\326\210\077\244\360\177\353
\017\137\171\057\211\261\375\274\143\130\067\223\233\070\370\267
\133\251\372\330\161\307\264\274\200\227\215\154\113\361\120\325
\052\051\252\250\031\172\226\346\225\216\164\355\227\012\127\165
\364\005\333\155\013\071\271\001\177\252\366\326\332\154\346\005
\340\244\115\122\374\333\320\164\267\021\214\173\215\117\377\207
\203\256\377\005\003\023\127\120\067\376\214\226\122\020\114\137
\277\224\161\151\331\226\076\014\103\117\276\060\300\237\071\164
\117\006\105\135\243\326\126\071\150\007\314\207\117\120\167\223
\161\331\104\010\261\212\064\351\211\254\333\233\116\341\331\344
\122\105\214\056\024\037\221\153\031\035\150\051\054\126\304\342
\036\023\127\144\360\141\343\271\021\337\260\341\127\240\033\255
\327\137\321\257\333\053\055\077\320\150\216\017\352\237\017\213
\065\130\033\023\034\364\336\065\241\012\135\326\352\337\022\157
\300\373\151\007\106\162\334\201\366\004\043\027\340\115\165\341
\162\157\260\050\353\233\341\341\203\241\237\112\135\257\314\233
\372\002\040\266\030\142\167\221\073\243\325\145\255\334\174\220
\167\034\104\101\244\112\213\353\225\162\351\366\011\144\334\250
\055\237\164\170\350\301\242\011\143\234\357\240\333\117\235\225
\253\040\117\267\260\367\207\134\246\240\344\067\070\307\134\343
\065\017\054\255\243\200\242\354\056\135\300\317\355\213\005\302
\346\163\156\366\211\325\365\322\106\216\352\155\143\033\036\212
\311\175\246\370\234\353\345\325\143\205\115\163\146\151\021\376
\310\016\364\301\307\146\111\123\176\344\031\153\361\351\172\131
\243\155\176\305\027\346\047\306\357\033\333\157\374\015\115\006
\001\264\016\134\060\106\125\140\257\070\145\072\312\107\272\254
\054\314\106\037\262\106\226\077\363\355\046\005\356\167\241\152
\153\176\055\155\130\134\112\324\216\147\270\361\332\325\106\212
\047\371\021\362\311\102\376\116\336\337\037\134\304\244\206\207
\026\063\241\247\027\030\245\015\344\005\345\053\302\053\013\242
\225\220\271\375\140\074\116\211\076\347\234\356\037\273\001\002
\003\001\000\001\243\102\060\100\060\016\006\003\125\035\017\001
\001\377\004\004\003\002\001\006\060\017\006\003\125\035\023\001
\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016
\004\026\004\024\340\115\277\334\233\101\135\023\350\144\360\247
\351\025\244\341\201\301\272\061\060\015\006\011\052\206\110\206
\367\015\001\001\013\005\000\003\202\002\001\000\152\212\160\070
\131\266\332\213\030\310\276\052\323\266\031\325\146\051\172\135
\315\133\057\163\034\046\116\243\175\157\253\267\051\115\246\351
\245\021\203\247\071\163\257\020\104\222\346\045\135\117\141\372
\310\006\276\116\113\357\376\363\061\376\306\174\160\012\101\130

\332\350\231\113\226\311\170\274\230\174\002\051\355\011\200\346
\012\072\202\002\052\342\311\057\310\126\031\046\356\170\034\043
\375\367\223\145\116\347\363\230\230\257\315\335\331\236\100\210
\061\050\072\253\056\013\260\254\014\044\372\172\046\230\363\022
\141\020\364\135\027\367\176\342\170\227\124\342\214\350\051\272
\214\020\062\275\335\063\153\070\206\176\071\075\016\003\162\247
\135\171\217\105\212\131\256\133\041\156\061\106\325\131\215\317
\025\137\335\061\045\317\333\140\326\201\104\162\051\002\127\366
\226\324\326\377\352\051\333\071\305\270\054\212\032\215\316\313
\347\102\061\206\005\150\016\236\024\335\000\220\272\151\105\010
\333\156\220\201\206\247\052\005\077\346\204\071\370\267\371\127
\137\114\244\171\132\020\014\136\325\153\377\065\137\005\121\036
\154\243\165\251\317\120\203\323\174\364\146\367\202\215\075\014
\175\350\337\173\250\016\033\054\234\256\100\160\207\332\355\247
\026\202\132\276\065\154\040\116\042\141\331\274\121\172\315\172
\141\334\113\021\371\376\147\064\317\056\004\146\141\134\127\227
\043\214\363\206\033\110\337\052\257\247\301\377\330\216\076\003
\273\330\052\260\372\024\045\262\121\153\206\103\205\056\007\043
\026\200\215\114\373\264\143\073\314\303\164\355\033\243\036\376
\065\017\137\174\035\026\206\365\016\303\225\361\057\257\135\045
\073\121\346\327\166\101\070\321\113\003\071\050\245\036\221\162
\324\175\253\227\063\304\323\076\340\151\266\050\171\240\011\215
\034\321\377\101\162\110\006\374\232\056\347\040\371\233\242\336
\211\355\256\074\011\257\312\127\263\222\211\160\100\344\057\117
\302\160\203\100\327\044\054\153\347\011\037\323\325\307\301\010
\364\333\016\073\034\007\013\103\021\204\041\206\351\200\324\165
\330\253\361\002\142\301\261\176\125\141\317\023\327\046\260\327
\234\313\051\213\070\112\013\016\220\215\272\241
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "CA "
Issuer: CN=CA ,O=WoSign CA Limited,C=CN
Serial Number:50:70:6b:cd:d8:13:fc:1b:4e:3b:33:72:d2:11:48:8d
Subject: CN=CA ,O=WoSign CA Limited,C=CN
Not Valid Before: Sat Aug 08 01:00:01 2009
Not Valid After: Mon Aug 08 01:00:01 2039
Fingerprint (MD5): 78:83:5b:52:16:76:c4:24:3b:83:78:e8:ac:da:9a:93
Fingerprint (SHA1): 16:32:47:8d:89:f9:21:3a:92:00:85:63:f5:a4:a7:d3:12:40:8a:d6
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CA "
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

\026\062\107\215\211\371\041\072\222\000\205\143\365\244\247\323
\022\100\212\326
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\170\203\133\122\026\166\304\044\073\203\170\350\254\332\232\223
END
CKA_ISSUER MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\032\060\030\006\003\125\004\012\023\021\127\157\123\151\147\156
\040\103\101\040\114\151\155\151\164\145\144\061\033\060\031\006
\003\125\004\003\014\022\103\101\040\346\262\203\351\200\232\346
\240\271\350\257\201\344\271\246
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\120\160\153\315\330\023\374\033\116\073\063\162\322\021
\110\215
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "SSC GDL CA Root B"
Issuer: CN=SSC GDL CA Root B,OU=CA ROOT Services,O=Skaitmeninio sertifikavimo centras,C=LT
Serial Number:3e:8c:4f:bc:e4:29:83:82:4d:84:55:8e:d5:35:80:cf
Subject: CN=SSC GDL CA Root B,OU=CA ROOT Services,O=Skaitmeninio sertifikavimo centras,C=LT
Not Valid Before: Tue Jun 04 14:20:15 2013
Not Valid After: Sat Jun 04 14:21:55 2033
Fingerprint (MD5): ca:b5:ab:b2:55:7b:93:36:32:53:23:ed:79:27:30:4a
Fingerprint (SHA1): c8:60:a3:18:fc:f5:b7:13:0b:10:07:ad:7f:61:4a:40:ff:ff:18:5f
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSC GDL CA Root B"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\161\061\013\060\011\006\003\125\004\006\023\002\114\124\061
\053\060\051\006\003\125\004\012\023\042\123\153\141\151\164\155
\145\156\151\156\151\157\040\163\145\162\164\151\146\151\153\141
\166\151\155\157\040\143\145\156\164\162\141\163\061\031\060\027
\006\003\125\004\013\023\020\103\101\040\122\117\117\124\040\123
\145\162\166\151\143\145\163\061\032\060\030\006\003\125\004\003
\023\021\123\123\103\040\107\104\114\040\103\101\040\122\157\157
\164\040\102
END
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\161\061\013\060\011\006\003\125\004\006\023\002\114\124\061
\053\060\051\006\003\125\004\012\023\042\123\153\141\151\164\155
\145\156\151\156\151\157\040\163\145\162\164\151\146\151\153\141
\166\151\155\157\040\143\145\156\164\162\141\163\061\031\060\027
\006\003\125\004\013\023\020\103\101\040\122\117\117\124\040\123
\145\162\166\151\143\145\163\061\032\060\030\006\003\125\004\003
\023\021\123\123\103\040\107\104\114\040\103\101\040\122\157\157
\164\040\102
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\076\214\117\274\344\051\203\202\115\204\125\216\325\065
\200\317
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\256\060\202\003\226\240\003\002\001\002\002\020\076
\214\117\274\344\051\203\202\115\204\125\216\325\065\200\317\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\161
\061\013\060\011\006\003\125\004\006\023\002\114\124\061\053\060
\051\006\003\125\004\012\023\042\123\153\141\151\164\155\145\156
\151\156\151\157\040\163\145\162\164\151\146\151\153\141\166\151
\155\157\040\143\145\156\164\162\141\163\061\031\060\027\006\003
\125\004\013\023\020\103\101\040\122\117\117\124\040\123\145\162
\166\151\143\145\163\061\032\060\030\006\003\125\004\003\023\021
\123\123\103\040\107\104\114\040\103\101\040\122\157\157\164\040
\102\060\036\027\015\061\063\060\066\060\064\061\064\062\060\061
\065\132\027\015\063\063\060\066\060\064\061\064\062\061\065\065
\132\060\161\061\013\060\011\006\003\125\004\006\023\002\114\124
\061\053\060\051\006\003\125\004\012\023\042\123\153\141\151\164
\155\145\156\151\156\151\157\040\163\145\162\164\151\146\151\153
\141\166\151\155\157\040\143\145\156\164\162\141\163\061\031\060
\027\006\003\125\004\013\023\020\103\101\040\122\117\117\124\040
\123\145\162\166\151\143\145\163\061\032\060\030\006\003\125\004
\003\023\021\123\123\103\040\107\104\114\040\103\101\040\122\157
\157\164\040\102\060\202\002\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012
\002\202\002\001\000\217\225\351\322\353\301\163\045\307\070\147
\360\203\216\123\274\266\313\316\272\163\333\117\047\366\042\220
\077\102\277\041\326\336\142\202\264\157\004\005\111\011\073\167
\001\327\113\137\122\322\331\031\307\155\174\014\251\072\011\142
\344\052\030\151\214\240\335\353\254\023\266\016\071\021\200\151
\116\143\137\334\074\015\372\331\214\142\276\144\205\062\062\131
\227\120\223\211\337\373\377\324\330\145\161\307\106\125\242\033
\231\141\037\334\120\000\310\027\171\350\120\260\014\136\346\376
\166\246\001\116\011\310\160\154\372\220\263\136\334\075\007\315
\111\243\116\126\136\022\117\144\101\177\176\014\025\303\240\336
\263\243\051\006\111\104\241\137\157\077\201\240\104\115\360\173
\012\070\050\355\022\356\143\227\303\173\135\214\117\161\335\225

\072\332\056\250\001\106\012\363\154\350\265\361\037\010\000\361
\100\222\033\046\000\061\165\071\106\111\046\271\244\324\161\167
\021\244\117\063\314\011\333\331\321\041\113\222\104\254\316\170
\142\202\027\373\372\022\264\175\325\362\206\355\364\176\226\024
\346\215\003\122\257\315\027\242\325\034\245\376\201\246\232\355
\175\344\331\016\062\146\020\217\333\331\063\061\201\176\051\127
\357\314\262\241\140\356\212\133\271\145\333\177\033\232\054\217
\047\061\211\212\050\265\257\261\126\324\003\042\356\045\117\330
\232\275\322\154\127\274\203\246\110\037\054\125\007\011\064\053
\271\171\054\002\245\240\137\174\166\237\044\062\074\055\222\337
\353\110\127\207\241\366\376\043\372\064\253\211\365\150\033\216
\037\252\156\016\245\322\041\322\357\271\321\261\111\127\065\132
\204\323\036\342\002\155\122\020\177\342\214\115\041\333\062\062
\034\175\314\226\042\003\055\152\247\006\102\155\156\220\207\372
\034\134\260\117\320\003\101\023\372\013\123\346\301\020\002\110
\013\167\143\364\245\234\121\173\230\146\327\305\166\062\345\157
\135\024\141\175\014\273\155\225\100\332\251\046\307\367\251\313
\322\376\047\301\053\366\261\150\206\376\343\142\122\231\120\216
\053\336\101\041\007\033\207\365\100\035\160\255\317\375\302\103
\250\065\126\021\102\305\313\136\146\241\310\250\150\367\376\114
\127\141\066\122\201\002\003\001\000\001\243\102\060\100\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\017
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060
\035\006\003\125\035\016\004\026\004\024\162\003\106\207\141\366
\035\263\324\225\143\271\120\167\156\015\253\230\376\057\060\015
\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202\002
\001\000\010\333\212\062\201\164\063\161\026\354\041\205\123\110
\012\157\037\162\343\343\004\370\056\267\077\363\044\225\117\234
\355\023\341\210\202\002\366\146\367\267\261\055\200\047\255\256
\270\155\376\043\007\021\010\253\164\141\214\050\022\371\366\020
\064\360\317\266\174\243\165\055\022\324\224\337\164\356\261\230
\253\261\356\042\142\113\131\037\177\376\032\145\255\115\342\244
\021\077\023\041\264\330\065\213\166\100\246\137\275\063\021\337
\230\343\041\136\035\243\273\170\066\002\073\330\375\144\204\332
\067\315\131\355\374\014\320\164\244\153\161\074\066\022\104\236
\176\156\117\012\041\034\145\037\113\022\154\277\216\162\326\335
\076\000\160\230\001\105\053\354\225\220\343\323\151\070\347\053
\235\176\145\131\133\341\333\205\312\143\376\253\277\344\320\375
\344\122\272\032\346\376\306\220\272\173\316\361\244\142\305\107
\276\044\307\240\172\345\041\341\306\010\340\014\211\203\217\200
\151\375\356\240\337\172\114\072\323\110\052\026\277\256\246\225
\265\335\150\037\373\016\265\005\214\321\262\104\174\140\060\126
\166\027\265\065\117\250\325\012\353\302\265\156\002\356\234\137
\016\243\261\001\250\345\123\157\176\203\101\037\025\330\377\341
\302\266\032\361\106\234\144\240\032\340\112\312\270\246\264\211
\044\356\173\225\231\142\324\342\100\273\316\243\232\175\035\162
\363\033\201\101\167\000\136\354\074\242\060\005\074\315\174\110
\066\023\310\062\260\153\157\237\070\050\070\151\134\173\346\342

\255\203\273\155\023\321\056\267\321\166\157\135\060\136\271\120
\105\110\326\110\200\223\121\311\026\251\020\135\147\306\313\176
\147\175\005\117\364\040\357\044\045\136\355\147\103\306\373\156
\171\373\262\362\310\311\316\101\174\005\340\255\213\315\012\105
\056\342\142\237\227\221\364\371\143\354\362\302\140\212\334\033
\377\041\250\377\043\207\214\163\215\260\072\314\037\217\061\162
\012\375\226\241\337\032\123\323\066\266\260\167\106\336\003\366
\302\200\056\157\227\043\341\021\314\121\230\077\356\100\377\364
\075\233\210\177\214\273\341\131\206\275\011\064\047\134\236\012
\223\062\073\125\052\251\136\013\015\017\251\246\121\004\342\233
\052\021
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "SSC GDL CA Root B"
Issuer: CN=SSC GDL CA Root B,OU=CA ROOT Services,O=Skaitmeninio sertifikavimo centras,C=LT
Serial Number:3e:8c:4f:bc:e4:29:83:82:4d:84:55:8e:d5:35:80:cf
Subject: CN=SSC GDL CA Root B,OU=CA ROOT Services,O=Skaitmeninio sertifikavimo centras,C=LT
Not Valid Before: Tue Jun 04 14:20:15 2013
Not Valid After: Sat Jun 04 14:21:55 2033
Fingerprint (MD5): ca:b5:ab:b2:55:7b:93:36:32:53:23:ed:79:27:30:4a
Fingerprint (SHA1): c8:60:a3:18:fc:f5:b7:13:0b:10:07:ad:7f:61:4a:40:ff:ff:18:5f
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSC GDL CA Root B"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\310\140\243\030\374\365\267\023\013\020\007\255\177\141\112\100
\377\377\030\137
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\312\265\253\262\125\173\223\066\062\123\043\355\171\047\060\112
END
CKA_ISSUER MULTILINE_OCTAL
\060\161\061\013\060\011\006\003\125\004\006\023\002\114\124\061
\053\060\051\006\003\125\004\012\023\042\123\153\141\151\164\155
\145\156\151\156\151\157\040\163\145\162\164\151\146\151\153\141
\166\151\155\157\040\143\145\156\164\162\141\163\061\031\060\027
\006\003\125\004\013\023\020\103\101\040\122\117\117\124\040\123
\145\162\166\151\143\145\163\061\032\060\030\006\003\125\004\003
\023\021\123\123\103\040\107\104\114\040\103\101\040\122\157\157
\164\040\102
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\020\076\214\117\274\344\051\203\202\115\204\125\216\325\065
\200\317
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "SAPO Class 2 Root CA"
Issuer: 1.2.840.113549.1.9.1=pkiadmin@trustcentre.co.za,CN=SAPO Class 2 Root CA,OU=SAPO Trust Centre,O=South African Post Office Limited,L=Somerset West,ST=Western Cape,C=ZA
Serial Number: 1 (0x1)
Subject: 1.2.840.113549.1.9.1=pkiadmin@trustcentre.co.za,CN=SAPO Class 2 Root CA,OU=SAPO Trust Centre,O=South African Post Office Limited,L=Somerset West,ST=Western Cape,C=ZA
Not Valid Before: Wed Sep 15 00:00:00 2010
Not Valid After: Sat Sep 14 00:00:00 2030
Fingerprint (MD5): 0a:7b:e7:df:15:44:93:ed:92:72:42:1a:28:4b:0c:ee
Fingerprint (SHA1): e4:55:01:60:8a:a1:ef:89:e2:7b:8c:d3:c3:b3:4c:03:b0:38:e6:d7
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SAPO Class 2 Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101
\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145
\162\156\040\103\141\160\145\061\026\060\024\006\003\125\004\007
\023\015\123\157\155\145\162\163\145\164\040\127\145\163\164\061
\052\060\050\006\003\125\004\012\023\041\123\157\165\164\150\040
\101\146\162\151\143\141\156\040\120\157\163\164\040\117\146\146
\151\143\145\040\114\151\155\151\164\145\144\061\032\060\030\006
\003\125\004\013\023\021\123\101\120\117\040\124\162\165\163\164
\040\103\145\156\164\162\145\061\035\060\033\006\003\125\004\003
\023\024\123\101\120\117\040\103\154\141\163\163\040\062\040\122
\157\157\164\040\103\101\061\051\060\047\006\011\052\206\110\206
\367\015\001\011\001\026\032\160\153\151\141\144\155\151\156\100
\164\162\165\163\164\143\145\156\164\162\145\056\143\157\056\172
\141
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101
\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145
\162\156\040\103\141\160\145\061\026\060\024\006\003\125\004\007
\023\015\123\157\155\145\162\163\145\164\040\127\145\163\164\061
\052\060\050\006\003\125\004\012\023\041\123\157\165\164\150\040

\101\146\162\151\143\141\156\040\120\157\163\164\040\117\146\146
\151\143\145\040\114\151\155\151\164\145\144\061\032\060\030\006
\003\125\004\013\023\021\123\101\120\117\040\124\162\165\163\164
\040\103\145\156\164\162\145\061\035\060\033\006\003\125\004\003
\023\024\123\101\120\117\040\103\154\141\163\163\040\062\040\122
\157\157\164\040\103\101\061\051\060\047\006\011\052\206\110\206
\367\015\001\011\001\026\032\160\153\151\141\144\155\151\156\100
\164\162\165\163\164\143\145\156\164\162\145\056\143\157\056\172
\141
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\130\060\202\003\100\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101\061
\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145\162
\156\040\103\141\160\145\061\026\060\024\006\003\125\004\007\023
\015\123\157\155\145\162\163\145\164\040\127\145\163\164\061\052
\060\050\006\003\125\004\012\023\041\123\157\165\164\150\040\101
\146\162\151\143\141\156\040\120\157\163\164\040\117\146\146\151
\143\145\040\114\151\155\151\164\145\144\061\032\060\030\006\003
\125\004\013\023\021\123\101\120\117\040\124\162\165\163\164\040
\103\145\156\164\162\145\061\035\060\033\006\003\125\004\003\023
\024\123\101\120\117\040\103\154\141\163\163\040\062\040\122\157
\157\164\040\103\101\061\051\060\047\006\011\052\206\110\206\367
\015\001\011\001\026\032\160\153\151\141\144\155\151\156\100\164
\162\165\163\164\143\145\156\164\162\145\056\143\157\056\172\141
\060\036\027\015\061\060\060\071\061\065\060\060\060\060\060\060
\132\027\015\063\060\060\071\061\064\060\060\060\060\060\060\132
\060\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101
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\162\156\040\103\141\160\145\061\026\060\024\006\003\125\004\007
\023\015\123\157\155\145\162\163\145\164\040\127\145\163\164\061
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\101\146\162\151\143\141\156\040\120\157\163\164\040\117\146\146
\151\143\145\040\114\151\155\151\164\145\144\061\032\060\030\006
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\040\103\145\156\164\162\145\061\035\060\033\006\003\125\004\003
\023\024\123\101\120\117\040\103\154\141\163\163\040\062\040\122
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\164\162\165\163\164\143\145\156\164\162\145\056\143\157\056\172
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\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001
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\245\100\134\006\150\137\116\314\275\276\201\070\044\055\314\046
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\252\310\032\227\376\327\043\223\355\260\152\275\330\374\000\076
\263\222\004\340\113\276\117\073\230\247\235\355\315\143\360\201
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\062\307\071\156\173\145\322\167\070\316\156\126\245\331\043\253
\070\262\073\121\205\300\035\033\267\021\057\005\151\107\330\002
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\277\266\365\163\357\147\010\230\144\322\362\052\172\113\041\026
\341\037\130\141\336\221\107\037\041\237\037\376\214\043\206\203
\030\047\002\003\001\000\001\243\077\060\075\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\006\060\014\006\003\125
\035\023\004\005\060\003\001\001\377\060\035\006\003\125\035\016
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\017\002\341\366\056\234\261\061\132\246\370\316\274\356\002\204
\025\011\361\050\122\137\347\341\054\275\333\171\012\172\277\353
\142\236\325\206\107\051\356\164\060\354\114\165\265\036\343\252
\063\357\255\341\152\114\277\067\001\276\125\203\114\251\122\330
\067\230\120\157\150\335\107\101\267\054\060\310\156\114\007\054
\306\323\111\271\265\134\322\313\314\324\066\306\007\015\030\117
\077\143\000\304\354\266\210\373\001\144\143\255\321\367\167\174
\144\124\053\022\075\064\025\205\360\240\272\171\051\137\230\233
\102\352\256\301\250\237\023\211\212\155\351\270\070\311\141\355
\140\354\367\052\130\005\233\241\140\170\203\027\341\176\137\350
\375\170\340\153\126\052\206\166\256\133\302\136\353\105\344\060
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\342\206\373\334\333\200\012\201\341\375\010\371\013\304\061\264
\143\133\347\214\063\345\006\266\122\152\263\327\351\153\343\062
\170\062\146\224\116\335\215\167\155\323\044\050\133\124\141\167
\002\147\165\224\113\127\113\346\154\305\071\157
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "SAPO Class 2 Root CA"
Issuer: 1.2.840.113549.1.9.1=pkiadmin@trustcentre.co.za,CN=SAPO Class 2 Root CA,OU=SAPO Trust Centre,O=South African Post Office Limited,L=Somerset West,ST=Western Cape,C=ZA
Serial Number: 1 (0x1)
Subject: 1.2.840.113549.1.9.1=pkiadmin@trustcentre.co.za,CN=SAPO Class 2 Root CA,OU=SAPO Trust Centre,O=South African Post Office Limited,L=Somerset West,ST=Western Cape,C=ZA

Not Valid Before: Wed Sep 15 00:00:00 2010
Not Valid After: Sat Sep 14 00:00:00 2030
Fingerprint (MD5): 0a:7b:e7:df:15:44:93:ed:92:72:42:1a:28:4b:0c:ee
Fingerprint (SHA1): e4:55:01:60:8a:a1:ef:89:e2:7b:8c:d3:c3:b3:4c:03:b0:38:e6:d7
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SAPO Class 2 Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\344\125\001\140\212\241\357\211\342\173\214\323\303\263\114\003
\260\070\346\327
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\012\173\347\337\025\104\223\355\222\162\102\032\050\113\014\356
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101
\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145
\162\156\040\103\141\160\145\061\026\060\024\006\003\125\004\007
\023\015\123\157\155\145\162\163\145\164\040\127\145\163\164\061
\052\060\050\006\003\125\004\012\023\041\123\157\165\164\150\040
\101\146\162\151\143\141\156\040\120\157\163\164\040\117\146\146
\151\143\145\040\114\151\155\151\164\145\144\061\032\060\030\006
\003\125\004\013\023\021\123\101\120\117\040\124\162\165\163\164
\040\103\145\156\164\162\145\061\035\060\033\006\003\125\004\003
\023\024\123\101\120\117\040\103\154\141\163\163\040\062\040\122
\157\157\164\040\103\101\061\051\060\047\006\011\052\206\110\206
\367\015\001\011\001\026\032\160\153\151\141\144\155\151\156\100
\164\162\165\163\164\143\145\156\164\162\145\056\143\157\056\172
\141
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
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END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "SAPO Class 3 Root CA"
Issuer: 1.2.840.113549.1.9.1=pkiadmin@trustcentre.co.za,CN=SAPO Class 3 Root CA,OU=SAPO Trust Centre,O=South African Post Office Limited,L=Somerset West,ST=Western Cape,C=ZA
Serial Number: 2 (0x2)
Subject: 1.2.840.113549.1.9.1=pkiadmin@trustcentre.co.za,CN=SAPO Class 3 Root CA,OU=SAPO Trust Centre,O=South African Post Office Limited,L=Somerset West,ST=Western Cape,C=ZA
Not Valid Before: Wed Sep 15 00:00:00 2010

Not Valid After: Sat Sep 14 00:00:00 2030
Fingerprint (MD5): 54:e5:eb:35:d1:75:05:3c:7c:df:30:d6:bf:f3:ff:53
Fingerprint (SHA1): 38:dd:76:59:c7:35:10:0b:00:a2:37:e4:91:b7:bc:0f:fc:d2:31:6c
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SAPO Class 3 Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
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\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145
\162\156\040\103\141\160\145\061\026\060\024\006\003\125\004\007
\023\015\123\157\155\145\162\163\145\164\040\127\145\163\164\061
\052\060\050\006\003\125\004\012\023\041\123\157\165\164\150\040
\101\146\162\151\143\141\156\040\120\157\163\164\040\117\146\146
\151\143\145\040\114\151\155\151\164\145\144\061\032\060\030\006
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\040\103\145\156\164\162\145\061\035\060\033\006\003\125\004\003
\023\024\123\101\120\117\040\103\154\141\163\163\040\063\040\122
\157\157\164\040\103\101\061\051\060\047\006\011\052\206\110\206
\367\015\001\011\001\026\032\160\153\151\141\144\155\151\156\100
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\162\156\040\103\141\160\145\061\026\060\024\006\003\125\004\007
\023\015\123\157\155\145\162\163\145\164\040\127\145\163\164\061
\052\060\050\006\003\125\004\012\023\041\123\157\165\164\150\040
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\003\125\004\013\023\021\123\101\120\117\040\124\162\165\163\164
\040\103\145\156\164\162\145\061\035\060\033\006\003\125\004\003
\023\024\123\101\120\117\040\103\154\141\163\163\040\063\040\122
\157\157\164\040\103\101\061\051\060\047\006\011\052\206\110\206
\367\015\001\011\001\026\032\160\153\151\141\144\155\151\156\100
\164\162\165\163\164\143\145\156\164\162\145\056\143\157\056\172
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END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
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END
CKA_VALUE MULTILINE_OCTAL
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\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060

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\060\050\006\003\125\004\012\023\041\123\157\165\164\150\040\101
\146\162\151\143\141\156\040\120\157\163\164\040\117\146\146\151
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\162\165\163\164\143\145\156\164\162\145\056\143\157\056\172\141
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\060\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101
\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145
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\023\015\123\157\155\145\162\163\145\164\040\127\145\163\164\061
\052\060\050\006\003\125\004\012\023\041\123\157\165\164\150\040
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\151\143\145\040\114\151\155\151\164\145\144\061\032\060\030\006
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\040\103\145\156\164\162\145\061\035\060\033\006\003\125\004\003
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\164\162\165\163\164\143\145\156\164\162\145\056\143\157\056\172
\141\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001
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\307\217\005\121\262\320\170\322\342\113\111\351\324\032\247\073
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\340\263\334\256\357\270\375\250\263\354\354\345\071\210\104\264
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\305\277\004\114\005\106\135\012\313\345\352\141\000\341\157\101
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\274\332\110\165\103\355\376\104\176\075\054\346\142\221\003\375
\075\211\357\176\364\135\044\217\245\013\053\263\076\172\051\050
\274\273\077\277\353\167\205\004\046\213\224\262\220\365\353\215
\117\242\104\042\120\250\234\052\104\110\000\170\031\253\235\010
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\035\017\001\001\377\004\004\003\002\001\006\060\014\006\003\125
\035\023\004\005\060\003\001\001\377\060\035\006\003\125\035\016
\004\026\004\024\141\263\171\122\235\112\225\222\121\216\202\044
\160\323\216\100\310\305\146\320\060\015\006\011\052\206\110\206
\367\015\001\001\005\005\000\003\202\002\001\000\177\306\263\044
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\073\322\043\345\351\211\170\152\345\343\033\005\036\221\034\316
\006\227\215\146\026\007\104\357\201\271\010\176\243\307\071\064
\270\277\232\155\215\260\301\040\102\056\015\367\013\006\003\117
\156\313\274\267\260\057\031\161\215\216\257\012\115\130\061\213
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\005\300\055\063\370\267\010\202\051\101\103\375\046\123\346\372
\037\067\126\215\117\027\272\330\375\072\204\160\330\076\360\063
\256\304\005\110\124\241\271\325\041\077\352\076\307\251\061\107
\367\233\256\112\142\230\321\147\040\145\336\171\341\261\062\036
\153\337\373\200\153\107\134\071\307\016\010\252\307\243\356\051
\351\064\342\233\371\165\270\046\353\210\235\264\071\021\056\160
\375\121\004\062\273\017\171\204\120\041\105\174\057\344\331\377
\045\070\006\043\253\116\261\016\334\073\061\012\255\332\113\000
\151\153\056\342\303\014\311\005\001\105\146\341\245\211\141\034
\144\231\215\013\230\220\263\176\146\073\013\330\253\350\165\016
\331\177\232\156\175\311\203\047\311\274\350\064\070\302\132\207
\062\162\007\014\376\325\224\321\360\300\170\362\200\250\106\365
\153\232\354\342\331\026\216\212\372\204\366\321\122\311\234\262
\041\126\140\103\246\020\367\177\111\277\276\007\323\120\144\155
\002\272\052\125\054\317\331\302\156\257\174\013\110\320\361\341
\247\302\255\164\217\206\344\355\252\372\134\203\175\102\350\175
\007\035\007\125\314\053\151\062\271\167\202\150\306\167\362\042
\151\246\311\012\135\207\231\345\161\236\175\057\023\036\322\364
\375\011\171\047\130\053\012\207\201\052\373\152\043\055\113\044
\205\164\026\107\030\017\011\305\376\251\110\044\343\254\320\151
\075\137\123\230\062\275\354\340\121\301\123\112\261\366\073\360

\064\110\365\232\336\334\321\340\343\275\045\263\104\350\072\163
\311\171\320\254\321\355\342\000\012\137\241\035\146\131\112\163
\150\324\005\162\063\070\247\153\257\221\333\015\307\214\100\350
\236\220\210\311\373\376\044\327\201\254\363\336
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "SAPO Class 3 Root CA"
Issuer: 1.2.840.113549.1.9.1=pkiadmin@trustcentre.co.za,CN=SAPO Class 3 Root CA,OU=SAPO Trust Centre,O=South African Post Office Limited,L=Somerset West,ST=Western Cape,C=ZA
Serial Number: 2 (0x2)
Subject: 1.2.840.113549.1.9.1=pkiadmin@trustcentre.co.za,CN=SAPO Class 3 Root CA,OU=SAPO Trust Centre,O=South African Post Office Limited,L=Somerset West,ST=Western Cape,C=ZA
Not Valid Before: Wed Sep 15 00:00:00 2010
Not Valid After: Sat Sep 14 00:00:00 2030
Fingerprint (MD5): 54:e5:eb:35:d1:75:05:3c:7c:df:30:d6:bf:f3:ff:53
Fingerprint (SHA1): 38:dd:76:59:c7:35:10:0b:00:a2:37:e4:91:b7:bc:0f:fc:d2:31:6c
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SAPO Class 3 Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\070\335\166\131\307\065\020\013\000\242\067\344\221\267\274\017
\374\322\061\154
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\124\345\353\065\321\165\005\074\174\337\060\326\277\363\377\123
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101
\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145
\162\156\040\103\141\160\145\061\026\060\024\006\003\125\004\007
\023\015\123\157\155\145\162\163\145\164\040\127\145\163\164\061
\052\060\050\006\003\125\004\012\023\041\123\157\165\164\150\040
\101\146\162\151\143\141\156\040\120\157\163\164\040\117\146\146
\151\143\145\040\114\151\155\151\164\145\144\061\032\060\030\006
\003\125\004\013\023\021\123\101\120\117\040\124\162\165\163\164
\040\103\145\156\164\162\145\061\035\060\033\006\003\125\004\003
\023\024\123\101\120\117\040\103\154\141\163\163\040\063\040\122
\157\157\164\040\103\101\061\051\060\047\006\011\052\206\110\206
\367\015\001\011\001\026\032\160\153\151\141\144\155\151\156\100
\164\162\165\163\164\143\145\156\164\162\145\056\143\157\056\172
\141
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "SAPO Class 4 Root CA"
Issuer: 1.2.840.113549.1.9.1=pkiadmin@trustcentre.co.za,CN=SAPO Class 4 Root CA,OU=SAPO Trust Centre,O=South African Post Office Limited,L=Somerset West,ST=Western Cape,C=ZA
Serial Number: 3 (0x3)
Subject: 1.2.840.113549.1.9.1=pkiadmin@trustcentre.co.za,CN=SAPO Class 4 Root CA,OU=SAPO Trust Centre,O=South African Post Office Limited,L=Somerset West,ST=Western Cape,C=ZA
Not Valid Before: Wed Sep 15 00:00:00 2010
Not Valid After: Sat Sep 14 00:00:00 2030
Fingerprint (MD5): f8:a7:f6:89:94:8c:61:f7:43:98:36:df:22:82:9b:3b
Fingerprint (SHA1): 20:a8:f5:ff:c4:3a:f4:a9:bc:89:88:1e:bf:99:20:ff:91:e9:fd:0a
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SAPO Class 4 Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101
\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145
\162\156\040\103\141\160\145\061\026\060\024\006\003\125\004\007
\023\015\123\157\155\145\162\163\145\164\040\127\145\163\164\061
\052\060\050\006\003\125\004\012\023\041\123\157\165\164\150\040
\101\146\162\151\143\141\156\040\120\157\163\164\040\117\146\146
\151\143\145\040\114\151\155\151\164\145\144\061\032\060\030\006
\003\125\004\013\023\021\123\101\120\117\040\124\162\165\163\164
\040\103\145\156\164\162\145\061\035\060\033\006\003\125\004\003
\023\024\123\101\120\117\040\103\154\141\163\163\040\064\040\122
\157\157\164\040\103\101\061\051\060\047\006\011\052\206\110\206
\367\015\001\011\001\026\032\160\153\151\141\144\155\151\156\100
\164\162\165\163\164\143\145\156\164\162\145\056\143\157\056\172
\141
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101
\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145
\162\156\040\103\141\160\145\061\026\060\024\006\003\125\004\007
\023\015\123\157\155\145\162\163\145\164\040\127\145\163\164\061
\052\060\050\006\003\125\004\012\023\041\123\157\165\164\150\040

\101\146\162\151\143\141\156\040\120\157\163\164\040\117\146\146
\151\143\145\040\114\151\155\151\164\145\144\061\032\060\030\006
\003\125\004\013\023\021\123\101\120\117\040\124\162\165\163\164
\040\103\145\156\164\162\145\061\035\060\033\006\003\125\004\003
\023\024\123\101\120\117\040\103\154\141\163\163\040\064\040\122
\157\157\164\040\103\101\061\051\060\047\006\011\052\206\110\206
\367\015\001\011\001\026\032\160\153\151\141\144\155\151\156\100
\164\162\165\163\164\143\145\156\164\162\145\056\143\157\056\172
\141
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\003
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\130\060\202\004\100\240\003\002\001\002\002\001\003
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101\061
\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145\162
\156\040\103\141\160\145\061\026\060\024\006\003\125\004\007\023
\015\123\157\155\145\162\163\145\164\040\127\145\163\164\061\052
\060\050\006\003\125\004\012\023\041\123\157\165\164\150\040\101
\146\162\151\143\141\156\040\120\157\163\164\040\117\146\146\151
\143\145\040\114\151\155\151\164\145\144\061\032\060\030\006\003
\125\004\013\023\021\123\101\120\117\040\124\162\165\163\164\040
\103\145\156\164\162\145\061\035\060\033\006\003\125\004\003\023
\024\123\101\120\117\040\103\154\141\163\163\040\064\040\122\157
\157\164\040\103\101\061\051\060\047\006\011\052\206\110\206\367
\015\001\011\001\026\032\160\153\151\141\144\155\151\156\100\164
\162\165\163\164\143\145\156\164\162\145\056\143\157\056\172\141
\060\036\027\015\061\060\060\071\061\065\060\060\060\060\060\060
\132\027\015\063\060\060\071\061\064\060\060\060\060\060\060\132
\060\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101
\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145
\162\156\040\103\141\160\145\061\026\060\024\006\003\125\004\007
\023\015\123\157\155\145\162\163\145\164\040\127\145\163\164\061
\052\060\050\006\003\125\004\012\023\041\123\157\165\164\150\040
\101\146\162\151\143\141\156\040\120\157\163\164\040\117\146\146
\151\143\145\040\114\151\155\151\164\145\144\061\032\060\030\006
\003\125\004\013\023\021\123\101\120\117\040\124\162\165\163\164
\040\103\145\156\164\162\145\061\035\060\033\006\003\125\004\003
\023\024\123\101\120\117\040\103\154\141\163\163\040\064\040\122
\157\157\164\040\103\101\061\051\060\047\006\011\052\206\110\206
\367\015\001\011\001\026\032\160\153\151\141\144\155\151\156\100
\164\162\165\163\164\143\145\156\164\162\145\056\143\157\056\172
\141\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002
\001\000\333\334\355\110\232\240\243\237\340\021\216\331\310\222
\165\072\125\301\121\042\312\013\172\244\065\015\305\346\127\055

\203\360\052\157\042\070\067\061\155\174\205\044\242\006\057\103
\202\075\105\060\100\045\034\356\130\107\101\346\360\236\000\036
\370\364\057\021\273\222\262\230\105\055\323\037\200\311\166\024
\023\303\314\100\346\255\353\071\140\374\317\310\337\052\375\214
\022\121\357\317\014\144\306\127\350\043\121\135\347\146\122\352
\146\275\223\177\235\172\050\361\031\160\156\204\237\060\107\267
\260\071\153\023\054\353\113\115\056\257\077\277\375\002\023\112
\071\347\076\063\305\020\221\121\276\017\107\235\115\122\374\054
\363\343\023\242\000\202\341\024\014\315\322\236\263\362\340\201
\332\276\231\222\123\343\175\231\167\103\341\341\110\051\201\236
\326\005\127\072\161\334\076\230\255\130\160\157\106\273\176\062
\003\342\203\233\131\127\367\370\263\315\124\026\354\266\255\241
\034\032\222\321\324\051\236\217\315\263\350\175\120\361\302\202
\254\272\275\264\165\126\240\365\105\135\030\175\054\214\361\173
\101\314\206\261\232\204\113\012\052\135\233\226\341\315\372\253
\026\047\101\347\225\065\246\313\212\247\226\363\245\314\121\371
\055\175\036\103\373\334\155\265\271\070\275\005\373\130\372\056
\323\354\136\144\055\257\130\001\112\174\042\106\323\101\313\075
\344\226\136\111\103\070\273\211\353\364\234\151\071\022\003\134
\204\273\345\214\036\352\340\146\273\300\277\214\376\236\012\115
\075\150\077\100\166\326\062\251\352\105\270\152\007\122\216\315
\121\361\135\050\143\014\323\131\070\374\311\375\202\311\105\040
\274\346\350\314\242\014\313\173\144\071\111\106\105\365\163\034
\152\227\040\353\041\102\367\264\040\122\267\112\375\165\274\313
\017\014\147\021\127\037\367\060\361\253\220\314\135\074\226\005
\142\323\312\125\001\113\106\305\200\207\034\162\320\163\124\041
\352\327\243\234\323\256\177\324\123\331\050\374\127\336\345\077
\122\112\273\310\046\044\107\123\034\163\272\317\306\264\060\315
\136\161\307\126\274\111\070\045\346\305\020\011\170\331\324\035
\134\315\156\355\333\221\134\241\123\024\126\252\215\047\251\246
\216\033\002\003\001\000\001\243\077\060\075\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\006\060\014\006\003\125
\035\023\004\005\060\003\001\001\377\060\035\006\003\125\035\016
\004\026\004\024\026\204\055\373\033\347\264\036\150\230\323\102
\040\032\156\176\117\221\127\002\060\015\006\011\052\206\110\206
\367\015\001\001\005\005\000\003\202\002\001\000\173\343\015\143
\072\144\040\155\314\374\054\270\351\326\253\333\327\253\046\051
\107\242\014\126\355\165\314\225\231\122\066\313\040\373\021\064
\027\102\116\165\005\260\330\344\270\260\204\057\230\031\271\373
\320\071\154\162\006\030\311\134\212\172\164\010\067\110\151\375
\042\241\135\305\327\170\023\360\050\102\101\303\311\303\071\011
\007\324\241\370\067\042\151\344\337\062\125\157\302\174\271\223
\361\262\067\165\314\256\322\063\226\214\066\367\001\355\343\144
\351\013\150\133\020\252\001\066\231\174\317\232\224\135\375\032
\131\141\242\145\025\175\236\027\144\324\237\123\230\001\375\161
\127\320\135\100\021\026\077\077\104\322\257\311\374\010\062\175
\166\370\325\103\350\334\066\150\007\303\116\303\226\227\127\306
\175\066\136\333\160\255\376\256\324\210\235\265\244\140\326\243

\142\276\174\371\064\036\374\273\364\112\162\305\203\036\106\150
\303\016\227\203\030\075\323\016\012\021\065\174\151\225\305\253
\052\365\310\071\020\115\014\211\060\051\211\111\033\104\227\221
\364\352\145\041\033\077\012\103\162\202\034\155\021\135\340\042
\105\137\141\114\242\246\372\337\243\106\272\341\201\140\154\062
\264\374\344\334\066\005\344\063\367\353\217\167\111\252\215\012
\357\110\212\346\101\227\176\073\253\103\207\362\010\140\013\157
\327\131\146\375\053\273\057\316\063\117\162\340\266\327\263\123
\127\211\360\073\274\156\342\020\277\163\076\142\217\245\010\351
\123\147\301\116\301\056\102\103\247\262\244\371\026\213\102\356
\334\064\177\110\263\220\333\044\342\310\344\123\065\123\234\352
\067\205\317\277\230\006\065\107\046\327\256\155\335\204\251\143
\130\046\101\365\165\062\056\141\236\117\223\122\122\366\132\043
\353\301\240\163\046\045\042\102\221\221\221\200\117\377\210\316
\136\163\347\226\302\355\011\022\367\166\226\251\171\142\220\111
\201\203\237\014\062\062\342\133\312\335\110\064\254\207\216\161
\225\256\114\344\174\170\035\247\121\303\275\021\372\002\321\225
\211\163\010\106\042\211\151\000\317\117\200\301\115\133\224\304
\312\231\121\230\057\015\275\175\124\144\324\012\332\047\131\247
\067\273\126\014\320\006\242\162\271\022\271\133
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "SAPO Class 4 Root CA"
Issuer: 1.2.840.113549.1.9.1=pkiadmin@trustcentre.co.za,CN=SAPO Class 4 Root CA,OU=SAPO Trust Centre,O=South African Post Office Limited,L=Somerset West,ST=Western Cape,C=ZA
Serial Number: 3 (0x3)
Subject: 1.2.840.113549.1.9.1=pkiadmin@trustcentre.co.za,CN=SAPO Class 4 Root CA,OU=SAPO Trust Centre,O=South African Post Office Limited,L=Somerset West,ST=Western Cape,C=ZA
Not Valid Before: Wed Sep 15 00:00:00 2010
Not Valid After: Sat Sep 14 00:00:00 2030
Fingerprint (MD5): f8:a7:f6:89:94:8c:61:f7:43:98:36:df:22:82:9b:3b
Fingerprint (SHA1): 20:a8:f5:ff:c4:3a:f4:a9:bc:89:88:1e:bf:99:20:ff:91:e9:fd:0a
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SAPO Class 4 Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\040\250\365\377\304\072\364\251\274\211\210\036\277\231\040\377
\221\351\375\012
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\370\247\366\211\224\214\141\367\103\230\066\337\042\202\233\073
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101
\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145
\162\156\040\103\141\160\145\061\026\060\024\006\003\125\004\007
\023\015\123\157\155\145\162\163\145\164\040\127\145\163\164\061
\052\060\050\006\003\125\004\012\023\041\123\157\165\164\150\040
\101\146\162\151\143\141\156\040\120\157\163\164\040\117\146\146
\151\143\145\040\114\151\155\151\164\145\144\061\032\060\030\006
\003\125\004\013\023\021\123\101\120\117\040\124\162\165\163\164
\040\103\145\156\164\162\145\061\035\060\033\006\003\125\004\003
\023\024\123\101\120\117\040\103\154\141\163\163\040\064\040\122
\157\157\164\040\103\101\061\051\060\047\006\011\052\206\110\206
\367\015\001\011\001\026\032\160\153\151\141\144\155\151\156\100
\164\162\165\163\164\143\145\156\164\162\145\056\143\157\056\172
\141
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\003
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "CA Disig Root R1"
Issuer: CN=CA Disig Root R1,O=Disig a.s.,L=Bratislava,C=SK
Serial Number:c3:03:9a:ee:50:90:6e:28
Subject: CN=CA Disig Root R1,O=Disig a.s.,L=Bratislava,C=SK
Not Valid Before: Thu Jul 19 09:06:56 2012
Not Valid After: Sat Jul 19 09:06:56 2042
Fingerprint (MD5): be:ec:11:93:9a:f5:69:21:bc:d7:c1:c0:67:89:cc:2a
Fingerprint (SHA1): 8e:1c:74:f8:a6:20:b9:e5:8a:f4:61:fa:ec:2b:47:56:51:1a:52:c6
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CA Disig Root R1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\056\163\056\061\031\060\027\006\003\125
\004\003\023\020\103\101\040\104\151\163\151\147\040\122\157\157
\164\040\122\061
END
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\056\163\056\061\031\060\027\006\003\125
\004\003\023\020\103\101\040\104\151\163\151\147\040\122\157\157
\164\040\122\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\303\003\232\356\120\220\156\050
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\151\060\202\003\121\240\003\002\001\002\002\011\000
\303\003\232\356\120\220\156\050\060\015\006\011\052\206\110\206
\367\015\001\001\005\005\000\060\122\061\013\060\011\006\003\125
\004\006\023\002\123\113\061\023\060\021\006\003\125\004\007\023
\012\102\162\141\164\151\163\154\141\166\141\061\023\060\021\006
\003\125\004\012\023\012\104\151\163\151\147\040\141\056\163\056
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END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "CA Disig Root R1"
Issuer: CN=CA Disig Root R1,O=Disig a.s.,L=Bratislava,C=SK
Serial Number:c3:03:9a:ee:50:90:6e:28
Subject: CN=CA Disig Root R1,O=Disig a.s.,L=Bratislava,C=SK
Not Valid Before: Thu Jul 19 09:06:56 2012
Not Valid After: Sat Jul 19 09:06:56 2042
Fingerprint (MD5): be:ec:11:93:9a:f5:69:21:bc:d7:c1:c0:67:89:cc:2a
Fingerprint (SHA1): 8e:1c:74:f8:a6:20:b9:e5:8a:f4:61:fa:ec:2b:47:56:51:1a:52:c6
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CA Disig Root R1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\216\034\164\370\246\040\271\345\212\364\141\372\354\053\107\126
\121\032\122\306
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\276\354\021\223\232\365\151\041\274\327\301\300\147\211\314\052
END
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\056\163\056\061\031\060\027\006\003\125
\004\003\023\020\103\101\040\104\151\163\151\147\040\122\157\157
\164\040\122\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\303\003\232\356\120\220\156\050
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Autoridad Certificadora Raíz Nacional de Uruguay"
Issuer: C=UY,O=AGESIC,CN=Autoridad Certificadora Raíz Nacional de Uruguay

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# Serial Number:02:ee:00:9b:66:d8:6a:1d:67:fe:da:8a:25:6f:21:5a:75:1b
# Subject: C=UY,O=AGESIC,CN=Autoridad Certificadora Raíz Nacional de Uruguay
# Not Valid Before: Thu Nov 03 15:02:49 2011
# Not Valid After: Wed Oct 29 15:02:49 2031
# Fingerprint (MD5): 7b:b7:e7:2e:64:18:e4:11:0c:f7:42:78:3e:65:a2:ae
# Fingerprint (SHA1): 7a:1c:dd:e3:d2:19:7e:71:37:43:3d:3f:99:c0:b3:69:f7:06:c7:49
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad Certificadora Raíz Nacional de Uruguay"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\072\060\070\006\003\125\004\003\014\061\101\165\164
\157\162\151\144\141\144\040\103\145\162\164\151\146\151\143\141
\144\157\162\141\040\122\141\303\255\172\040\116\141\143\151\157
\156\141\154\040\144\145\040\125\162\165\147\165\141\171\061\017
\060\015\006\003\125\004\012\023\006\101\107\105\123\111\103\061
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END
CKA_ID UTF8 "0"
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\144\157\162\141\040\122\141\303\255\172\040\116\141\143\151\157
\156\141\154\040\144\145\040\125\162\165\147\165\141\171\061\017
\060\015\006\003\125\004\012\023\006\101\107\105\123\111\103\061
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END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
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\041\132\165\033
END
CKA_VALUE MULTILINE_OCTAL
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\033\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000
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\156\141\154\040\144\145\040\125\162\165\147\165\141\171\061\017
\060\015\006\003\125\004\012\023\006\101\107\105\123\111\103\061
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\301\075\030\354\223\031\146\224\250\323\021\120\231\172\210\175
\257\076\177\224\220\073\012\303\152\267\215\137\322\247\121\321
\062\037\271\362\062\175\167\223\155\103\354\101\151\253\317\311
\141
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Autoridad Certificadora Raíz Nacional de Uruguay"
Issuer: C=UY,O=AGESIC,CN=Autoridad Certificadora Raíz Nacional de Uruguay
Serial Number:02:ee:00:9b:66:d8:6a:1d:67:fe:da:8a:25:6f:21:5a:75:1b
Subject: C=UY,O=AGESIC,CN=Autoridad Certificadora Raíz Nacional de Uruguay
Not Valid Before: Thu Nov 03 15:02:49 2011
Not Valid After: Wed Oct 29 15:02:49 2031
Fingerprint (MD5): 7b:b7:e7:2e:64:18:e4:11:0c:f7:42:78:3e:65:a2:ae
Fingerprint (SHA1): 7a:1c:dd:e3:d2:19:7e:71:37:43:3d:3f:99:c0:b3:69:f7:06:c7:49
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad Certificadora Raíz Nacional de Uruguay"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\172\034\335\343\322\031\176\161\067\103\075\077\231\300\263\151
\367\006\307\111
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\173\267\347\056\144\030\344\021\014\367\102\170\076\145\242\256
END
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\072\060\070\006\003\125\004\003\014\061\101\165\164
\157\162\151\144\141\144\040\103\145\162\164\151\146\151\143\141
\144\157\162\141\040\122\141\303\255\172\040\116\141\143\151\157
\156\141\154\040\144\145\040\125\162\165\147\165\141\171\061\017
\060\015\006\003\125\004\012\023\006\101\107\105\123\111\103\061
\013\060\011\006\003\125\004\006\023\002\125\131
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\002\356\000\233\146\330\152\035\147\376\332\212\045\157
\041\132\165\033
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "ApplicationCA2 Root"
Issuer: CN=ApplicationCA2 Root,OU=GPKI,O=Japanese Government,C=JP
Serial Number:31:32:35:33:37:32:38:32:38:32:38
Subject: CN=ApplicationCA2 Root,OU=GPKI,O=Japanese Government,C=JP
Not Valid Before: Tue Mar 12 15:00:00 2013
Not Valid After: Sat Mar 12 15:00:00 2033
Fingerprint (MD5): 7b:4c:15:74:3b:54:96:07:aa:95:3b:60:10:23:cf:f3

Fingerprint (SHA1): f0:0f:c3:7d:6a:1c:92:61:fb:6b:c1:c2:18:49:8c:5a:a4:dc:51:fb
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ApplicationCA2 Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\034\060\032\006\003\125\004\012\023\023\112\141\160\141\156\145
\163\145\040\107\157\166\145\162\156\155\145\156\164\061\015\060
\013\006\003\125\004\013\023\004\107\120\113\111\061\034\060\032
\006\003\125\004\003\023\023\101\160\160\154\151\143\141\164\151
\157\156\103\101\062\040\122\157\157\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\034\060\032\006\003\125\004\012\023\023\112\141\160\141\156\145
\163\145\040\107\157\166\145\162\156\155\145\156\164\061\015\060
\013\006\003\125\004\013\023\004\107\120\113\111\061\034\060\032
\006\003\125\004\003\023\023\101\160\160\154\151\143\141\164\151
\157\156\103\101\062\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\061\062\065\063\067\062\070\062\070\062\070
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\367\060\202\002\337\240\003\002\001\002\002\013\061
\062\065\063\067\062\070\062\070\062\070\060\015\006\011\052\206
\110\206\367\015\001\001\013\005\000\060\130\061\013\060\011\006
\003\125\004\006\023\002\112\120\061\034\060\032\006\003\125\004
\012\023\023\112\141\160\141\156\145\163\145\040\107\157\166\145
\162\156\155\145\156\164\061\015\060\013\006\003\125\004\013\023
\004\107\120\113\111\061\034\060\032\006\003\125\004\003\023\023
\101\160\160\154\151\143\141\164\151\157\156\103\101\062\040\122
\157\157\164\060\036\027\015\061\063\060\063\061\062\061\065\060
\060\060\060\132\027\015\063\063\060\063\061\062\061\065\060\060
\060\060\132\060\130\061\013\060\011\006\003\125\004\006\023\002
\112\120\061\034\060\032\006\003\125\004\012\023\023\112\141\160
\141\156\145\163\145\040\107\157\166\145\162\156\155\145\156\164
\061\015\060\013\006\003\125\004\013\023\004\107\120\113\111\061
\034\060\032\006\003\125\004\003\023\023\101\160\160\154\151\143
\141\164\151\157\156\103\101\062\040\122\157\157\164\060\202\001
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000
\003\202\001\017\000\060\202\001\012\002\202\001\001\000\246\252
\255\045\145\326\000\021\326\350\172\166\252\364\346\264\113\363
\314\303\122\264\215\254\246\117\265\222\161\157\106\265\325\255

\213\022\042\027\045\316\105\350\024\172\205\232\344\043\020\250
\372\261\147\120\345\155\107\340\152\211\023\343\256\256\065\361
\364\102\305\005\367\115\227\176\074\050\374\260\046\221\036\214
\036\070\032\226\334\130\104\227\142\343\062\310\321\025\101\115
\165\230\170\276\253\150\251\136\355\107\276\244\272\216\241\002
\227\336\223\164\231\155\147\264\005\045\356\224\310\355\252\244
\272\062\154\102\021\353\276\313\027\006\220\341\223\205\310\144
\050\316\037\107\307\300\135\140\356\166\066\334\063\073\121\353
\173\317\162\330\017\170\250\031\202\010\220\076\032\230\215\216
\264\317\025\066\246\156\335\267\342\115\100\040\123\331\166\052
\320\170\254\211\360\117\213\062\155\104\352\056\272\260\251\353
\211\335\267\157\171\017\253\201\156\270\346\213\051\013\131\257
\266\111\015\121\054\251\375\235\050\143\146\270\160\225\163\232
\330\372\073\063\274\102\102\033\062\254\261\062\373\075\002\003
\001\000\001\243\201\301\060\201\276\060\035\006\003\125\035\016
\004\026\004\024\126\247\254\252\002\035\262\254\075\220\016\240
\157\056\101\306\166\347\173\332\060\016\006\003\125\035\017\001
\001\377\004\004\003\002\001\006\060\174\006\003\125\035\021\004
\165\060\163\244\161\060\157\061\013\060\011\006\003\125\004\006
\023\002\112\120\061\030\060\026\006\003\125\004\012\014\017\346
\227\245\346\234\254\345\233\275\346\224\277\345\272\234\061\033
\060\031\006\003\125\004\013\014\022\346\224\277\345\272\234\350
\252\215\350\250\274\345\237\272\347\233\244\061\051\060\047\006
\003\125\004\003\014\040\343\202\242\343\203\227\343\203\252\343
\202\261\343\203\274\343\202\267\343\203\247\343\203\263\103\101
\062\040\122\157\157\164\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\003\202\001\001\000\177\232\011\165\254
\007\321\162\164\056\167\127\060\302\004\234\324\200\246\203\347
\245\240\033\237\376\253\363\200\275\325\112\243\241\217\266\114
\140\021\347\312\341\140\201\327\110\301\040\131\245\141\062\213
\235\236\227\323\146\203\332\145\056\130\076\333\345\057\245\315
\214\163\246\121\276\130\050\240\171\134\151\057\103\337\143\262
\211\107\312\273\336\271\064\021\143\240\016\045\027\345\207\364
\035\260\260\245\317\101\250\164\306\350\123\325\102\364\202\055
\123\011\021\150\046\161\224\165\023\115\252\166\210\074\164\261
\326\343\114\117\142\303\111\114\116\155\361\160\176\303\177\246
\005\314\170\233\351\201\333\250\310\307\134\236\374\222\222\055
\246\227\362\070\265\156\163\225\014\300\077\316\246\224\060\265
\372\005\267\336\236\040\252\374\023\144\311\212\272\144\357\342
\143\344\330\230\256\153\265\076\246\125\270\063\076\054\162\373
\054\021\000\373\133\026\057\204\322\023\236\372\005\305\301\313
\162\116\042\335\204\312\113\274\322\055\206\032\004\166\131\037
\111\102\142\073\023\037\026\350\272\327\375
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Microsoft Code Signing Only Certificate
# Trust for "ApplicationCA2 Root"
# Issuer: CN=ApplicationCA2 Root,OU=GPKI,O=Japanese Government,C=JP
# Serial Number:31:32:35:33:37:32:38:32:38:32:38
# Subject: CN=ApplicationCA2 Root,OU=GPKI,O=Japanese Government,C=JP
# Not Valid Before: Tue Mar 12 15:00:00 2013
# Not Valid After: Sat Mar 12 15:00:00 2033
# Fingerprint (MD5): 7b:4c:15:74:3b:54:96:07:aa:95:3b:60:10:23:cf:f3
# Fingerprint (SHA1): f0:0f:c3:7d:6a:1c:92:61:fb:6b:c1:c2:18:49:8c:5a:a4:dc:51:fb
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ApplicationCA2 Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\360\017\303\175\152\034\222\141\373\153\301\302\030\111\214\132
\244\334\121\373
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\173\114\025\164\073\124\226\007\252\225\073\140\020\043\317\363
END
CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\034\060\032\006\003\125\004\012\023\023\112\141\160\141\156\145
\163\145\040\107\157\166\145\162\156\155\145\156\164\061\015\060
\013\006\003\125\004\013\023\004\107\120\113\111\061\034\060\032
\006\003\125\004\003\023\023\101\160\160\154\151\143\141\164\151
\157\156\103\101\062\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\061\062\065\063\067\062\070\062\070\062\070
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "GlobalSign"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Serial Number:2a:38:a4:1c:96:0a:04:de:42:b2:28:a5:0b:e8:34:98:02
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After: Tue Jan 19 03:14:07 2038
# Fingerprint (MD5): 20:f0:27:68:d1:7e:a0:9d:0e:e6:2a:ca:df:5c:89:8e
# Fingerprint (SHA1): 69:69:56:2e:40:80:f4:24:a1:e7:19:9f:14:ba:f3:ee:58:ab:6a:bb
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
```

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\103\101\040\055\040\122\064\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\103\101\040\055\040\122\064\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\052\070\244\034\226\012\004\336\102\262\050\245\013\350
\064\230\002
END
CKA_VALUE MULTILINE_OCTAL
\060\202\001\341\060\202\001\207\240\003\002\001\002\002\021\052
\070\244\034\226\012\004\336\102\262\050\245\013\350\064\230\002
\060\012\006\010\052\206\110\316\075\004\003\002\060\120\061\044
\060\042\006\003\125\004\013\023\033\107\154\157\142\141\154\123
\151\147\156\040\105\103\103\040\122\157\157\164\040\103\101\040
\055\040\122\064\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156\060\036
\027\015\061\062\061\061\061\063\060\060\060\060\060\060\132\027
\015\063\070\060\061\061\071\060\063\061\064\060\067\132\060\120
\061\044\060\042\006\003\125\004\013\023\033\107\154\157\142\141
\154\123\151\147\156\040\105\103\103\040\122\157\157\164\040\103
\101\040\055\040\122\064\061\023\060\021\006\003\125\004\012\023
\012\107\154\157\142\141\154\123\151\147\156\061\023\060\021\006
\003\125\004\003\023\012\107\154\157\142\141\154\123\151\147\156
\060\131\060\023\006\007\052\206\110\316\075\002\001\006\010\052
\206\110\316\075\003\001\007\003\102\000\004\270\306\171\323\217
\154\045\016\237\056\071\031\034\003\244\256\232\345\071\007\011
\026\312\143\261\271\206\370\212\127\301\127\316\102\372\163\241
\367\145\102\377\036\301\000\262\156\163\016\377\307\041\345\030
\244\252\331\161\077\250\324\271\316\214\035\243\102\060\100\060

\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\035\006\003\125\035\016\004\026\004\024\124\260\173\255\105
\270\342\100\177\373\012\156\373\276\063\311\074\243\204\325\060
\012\006\010\052\206\110\316\075\004\003\002\003\110\000\060\105
\002\041\000\334\222\241\240\023\246\317\003\260\346\304\041\227
\220\372\024\127\055\003\354\356\074\323\156\312\250\154\166\274
\242\336\273\002\040\047\250\205\047\065\233\126\306\243\362\107
\322\267\156\033\002\000\027\252\147\246\025\221\336\372\224\354
\173\013\370\237\204
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "GlobalSign"
Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
Serial Number:2a:38:a4:1c:96:0a:04:de:42:b2:28:a5:0b:e8:34:98:02
Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
Not Valid Before: Tue Nov 13 00:00:00 2012
Not Valid After: Tue Jan 19 03:14:07 2038
Fingerprint (MD5): 20:f0:27:68:d1:7e:a0:9d:0e:e6:2a:ca:df:5c:89:8e
Fingerprint (SHA1): 69:69:56:2e:40:80:f4:24:a1:e7:19:9f:14:ba:f3:ee:58:ab:6a:bb
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\151\151\126\056\100\200\364\044\241\347\031\237\024\272\363\356
\130\253\152\273
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\040\360\047\150\321\176\240\235\016\346\052\312\337\134\211\216
END
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\103\101\040\055\040\122\064\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\052\070\244\034\226\012\004\336\102\262\050\245\013\350
\064\230\002
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Symantec Class 3 Public Primary Certification Authority - G6"
Issuer: CN=Symantec Class 3 Public Primary Certification Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US
Serial Number:65:63:71:85:d3:6f:45:c6:8f:7f:31:f9:09:87:92:82
Subject: CN=Symantec Class 3 Public Primary Certification Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US
Not Valid Before: Thu Oct 18 00:00:00 2012
Not Valid After: Tue Dec 01 23:59:59 2037
Fingerprint (MD5): 8d:d1:96:24:c4:4c:8f:5d:26:f4:6c:8d:52:41:1a:c6
Fingerprint (SHA1): 26:a1:6c:23:5a:24:72:22:9b:23:62:80:25:bc:80:97:c8:85:24:a1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 3 Public Primary Certification Authority - G6"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\063\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\063\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\020\145\143\161\205\323\157\105\306\217\177\061\371\011\207
\222\202
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\366\060\202\003\336\240\003\002\001\002\002\020\145
\143\161\205\323\157\105\306\217\177\061\371\011\207\222\202\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\201
\224\061\013\060\011\006\003\125\004\006\023\002\125\123\061\035
\060\033\006\003\125\004\012\023\024\123\171\155\141\156\164\145
\143\040\103\157\162\160\157\162\141\164\151\157\156\061\037\060
\035\006\003\125\004\013\023\026\123\171\155\141\156\164\145\143
\040\124\162\165\163\164\040\116\145\164\167\157\162\153\061\105
\060\103\006\003\125\004\003\023\074\123\171\155\141\156\164\145
\143\040\103\154\141\163\163\040\063\040\120\165\142\154\151\143
\040\120\162\151\155\141\162\171\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\055\040\107\066\060\036\027\015\061\062\061\060\061\070\060
\060\060\060\060\060\132\027\015\063\067\061\062\060\061\062\063
\065\071\065\071\132\060\201\224\061\013\060\011\006\003\125\004
\006\023\002\125\123\061\035\060\033\006\003\125\004\012\023\024
\123\171\155\141\156\164\145\143\040\103\157\162\160\157\162\141
\164\151\157\156\061\037\060\035\006\003\125\004\013\023\026\123
\171\155\141\156\164\145\143\040\124\162\165\163\164\040\116\145
\164\167\157\162\153\061\105\060\103\006\003\125\004\003\023\074
\123\171\155\141\156\164\145\143\040\103\154\141\163\163\040\063
\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165
\164\150\157\162\151\164\171\040\055\040\107\066\060\202\002\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\002\017\000\060\202\002\012\002\202\002\001\000\267\016\262
\372\115\274\232\162\025\373\167\133\333\375\103\017\313\013\367
\140\056\263\053\176\014\273\123\362\314\116\145\363\031\273\377
\065\035\367\323\251\273\100\055\265\335\170\324\246\371\067\352
\205\005\173\155\267\346\023\113\006\174\373\166\143\217\040\035
\055\070\053\004\205\362\350\260\321\137\115\112\041\311\152\330
\224\352\036\002\120\246\252\220\007\240\107\041\352\146\371\004
\240\346\203\360\304\365\136\226\342\047\115\141\303\263\301\214
\042\266\146\241\000\321\126\051\373\355\301\177\044\312\075\372
\132\224\260\204\303\307\272\103\034\375\144\016\361\050\373\107
\131\362\046\341\061\271\104\371\253\335\373\276\276\054\067\343
\254\013\030\323\374\001\242\361\244\012\065\202\107\114\253\275
\212\136\337\023\205\374\040\314\110\131\257\257\101\157\313\043
\315\312\223\247\335\325\137\310\144\073\377\001\003\240\012\117
\055\156\075\204\276\257\310\062\262\123\051\220\025\367\260\005
\232\012\074\366\271\006\220\311\245\341\135\240\073\260\376\250
\266\277\365\211\050\127\044\072\041\206\161\344\334\212\213\101
\125\354\036\060\044\131\321\300\131\270\170\257\252\132\164\336
\045\200\060\230\355\060\104\157\041\160\034\333\022\123\016\326

\246\050\146\223\054\037\314\117\074\033\201\305\271\366\170\157
\320\062\072\010\162\333\153\016\106\027\205\224\363\274\357\274
\367\244\136\216\351\351\265\144\345\267\113\105\022\054\114\067
\267\140\103\012\115\161\006\000\224\046\065\164\037\273\172\071
\134\116\073\346\270\003\342\307\223\213\204\054\045\111\105\335
\177\043\224\140\037\313\351\315\366\253\227\367\141\347\373\177
\142\201\310\334\012\060\134\030\174\346\316\357\307\156\036\207
\174\263\351\312\310\173\152\364\150\374\203\245\014\126\264\272
\262\215\112\012\307\227\227\305\210\060\025\075\020\010\124\025
\162\162\147\063\063\364\174\267\316\000\047\123\145\316\044\361
\132\144\347\066\057\362\056\002\302\227\337\162\350\002\036\240
\367\075\265\373\150\140\003\372\063\251\346\022\155\006\341\251
\250\135\116\074\376\331\347\000\145\254\266\031\115\173\203\177
\064\107\352\341\030\155\261\213\034\171\253\347\235\002\003\001
\000\001\243\102\060\100\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026
\004\024\071\161\010\000\076\336\310\206\347\220\377\344\375\041
\017\316\044\031\026\366\060\015\006\011\052\206\110\206\367\015
\001\001\014\005\000\003\202\002\001\000\120\153\210\115\140\110
\316\132\343\042\316\147\174\204\247\315\034\375\351\014\003\214
\066\257\012\207\016\152\256\127\256\001\320\066\273\362\375\271
\163\301\137\265\250\256\114\242\372\111\313\007\106\026\066\275
\343\310\127\070\176\070\344\277\045\063\140\306\334\067\234\143
\273\136\230\036\032\262\202\360\256\246\167\021\200\104\107\241
\051\305\360\263\072\316\230\360\270\354\323\016\200\006\167\043
\060\114\377\171\144\143\042\133\167\223\103\113\165\263\333\073
\156\073\112\335\361\310\256\265\067\212\225\210\072\020\150\160
\070\271\133\160\176\325\103\311\374\137\117\345\346\173\066\356
\360\040\355\107\127\023\046\020\136\024\006\015\173\166\007\302
\306\055\026\364\256\247\154\017\274\210\017\117\054\002\266\243
\327\042\346\231\107\065\330\215\245\117\201\022\072\021\175\263
\314\013\165\363\036\160\243\033\003\352\372\232\350\346\056\066
\071\314\231\316\072\077\014\267\256\370\103\231\260\223\156\157
\252\331\017\152\061\221\273\234\323\264\050\373\203\114\172\163
\202\120\147\322\016\254\355\140\305\262\135\065\230\317\207\176
\036\131\035\044\274\126\272\332\244\132\330\314\346\274\036\020
\217\033\214\216\363\301\333\267\276\324\260\133\145\217\026\150
\363\126\305\052\031\026\115\017\270\145\207\155\044\203\270\142
\334\340\107\141\032\210\173\316\116\177\375\334\306\015\132\232
\244\363\265\114\366\335\061\246\350\035\021\041\063\060\004\141
\175\034\340\076\117\215\077\265\213\022\000\132\175\251\241\000
\324\203\353\160\273\030\370\244\322\034\201\055\267\010\021\310
\046\173\266\324\345\017\003\106\162\324\045\100\036\276\111\135
\155\223\361\134\262\073\165\124\151\072\240\356\114\042\272\254
\232\342\010\255\105\143\005\112\122\065\166\304\064\365\136\007
\062\255\334\174\046\321\133\217\255\344\346\252\033\165\237\353
\135\264\350\300\251\025\174\116\112\007\162\337\106\311\324\221

\222\165\126\260\341\356\067\066\145\050\305\025\310\053\166\314
\155\157\031\203\364\375\332\025\342\101\347\063\171\106\203\127
\371\361\245\266\155\323\274\327\123\347\356\161\155\170\251\227
\247\356\040\234\031\025\162\025\075\004
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Symantec Class 3 Public Primary Certification Authority - G6"
Issuer: CN=Symantec Class 3 Public Primary Certification Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US
Serial Number:65:63:71:85:d3:6f:45:c6:8f:7f:31:f9:09:87:92:82
Subject: CN=Symantec Class 3 Public Primary Certification Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US
Not Valid Before: Thu Oct 18 00:00:00 2012
Not Valid After: Tue Dec 01 23:59:59 2037
Fingerprint (MD5): 8d:d1:96:24:c4:4c:8f:5d:26:f4:6c:8d:52:41:1a:c6
Fingerprint (SHA1): 26:a1:6c:23:5a:24:72:22:9b:23:62:80:25:bc:80:97:c8:85:24:a1
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 3 Public Primary Certification Authority - G6"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\046\241\154\043\132\044\162\042\233\043\142\200\045\274\200\227
\310\205\044\241
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\215\321\226\044\304\114\217\135\046\364\154\215\122\101\032\306
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\063\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\145\143\161\205\323\157\105\306\217\177\061\371\011\207
\222\202
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Symantec Class 3 Public Primary Certification Authority - G4"
Issuer: CN=Symantec Class 3 Public Primary Certification Authority - G4,OU=Symantec Trust Network,O=Symantec Corporation,C=US
Serial Number:4c:79:b5:9a:28:9c:76:31:64:f5:89:44:d0:91:02:de
Subject: CN=Symantec Class 3 Public Primary Certification Authority - G4,OU=Symantec Trust Network,O=Symantec Corporation,C=US
Not Valid Before: Thu Oct 18 00:00:00 2012
Not Valid After: Tue Dec 01 23:59:59 2037
Fingerprint (MD5): 36:c9:b7:4b:6c:b0:21:4c:c7:11:17:b1:18:fe:2b:4d
Fingerprint (SHA1): 58:d5:2d:b9:33:01:a4:fd:29:1a:8c:96:45:a0:8f:ee:7f:52:92:82
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 3 Public Primary Certification Authority - G4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\063\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\064
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\063\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\020\114\171\265\232\050\234\166\061\144\365\211\104\320\221
\002\336
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\247\060\202\002\055\240\003\002\001\002\002\020\114
\171\265\232\050\234\166\061\144\365\211\104\320\221\002\336\060
\012\006\010\052\206\110\316\075\004\003\003\060\201\224\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\035\060\033\006
\003\125\004\012\023\024\123\171\155\141\156\164\145\143\040\103
\157\162\160\157\162\141\164\151\157\156\061\037\060\035\006\003
\125\004\013\023\026\123\171\155\141\156\164\145\143\040\124\162
\165\163\164\040\116\145\164\167\157\162\153\061\105\060\103\006
\003\125\004\003\023\074\123\171\155\141\156\164\145\143\040\103
\154\141\163\163\040\063\040\120\165\142\154\151\143\040\120\162
\151\155\141\162\171\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040
\107\064\060\036\027\015\061\062\061\060\061\070\060\060\060\060
\060\060\132\027\015\063\067\061\062\060\061\062\063\065\071\065
\071\132\060\201\224\061\013\060\011\006\003\125\004\006\023\002
\125\123\061\035\060\033\006\003\125\004\012\023\024\123\171\155
\141\156\164\145\143\040\103\157\162\160\157\162\141\164\151\157
\156\061\037\060\035\006\003\125\004\013\023\026\123\171\155\141
\156\164\145\143\040\124\162\165\163\164\040\116\145\164\167\157
\162\153\061\105\060\103\006\003\125\004\003\023\074\123\171\155
\141\156\164\145\143\040\103\154\141\163\163\040\063\040\120\165
\142\154\151\143\040\120\162\151\155\141\162\171\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171\040\055\040\107\064\060\166\060\020\006\007\052
\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000
\004\127\317\352\263\071\115\077\241\041\340\156\057\070\162\306
\207\227\363\205\013\107\347\017\121\310\321\364\231\233\312\131
\145\377\114\371\352\013\267\045\325\322\366\354\061\055\062\142
\022\327\166\206\247\372\070\311\145\324\376\163\342\204\071\370
\114\111\142\023\335\272\325\210\240\137\075\310\117\260\077\217
\241\120\021\344\223\106\255\303\137\313\361\244\152\225\126\350
\300\243\102\060\100\060\016\006\003\125\035\017\001\001\377\004
\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004
\024\044\235\274\322\161\367\035\302\045\276\042\361\211\245\054
\025\073\064\036\136\060\012\006\010\052\206\110\316\075\004\003
\003\003\150\000\060\145\002\061\000\271\146\150\145\333\005\320
\070\175\016\363\310\165\141\270\320\050\304\261\112\063\121\130
\373\362\074\020\310\256\107\170\166\312\146\044\027\206\076\120
\126\156\245\055\231\210\270\275\044\002\060\003\352\247\347\250
\074\352\235\142\306\137\124\332\230\364\167\275\117\217\030\234
\221\134\107\153\100\115\020\035\263\341\211\312\013\042\310\032
\305\305\376\213\335\301\337\157\170\237\221
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Symantec Class 3 Public Primary Certification Authority - G4"
Issuer: CN=Symantec Class 3 Public Primary Certification Authority - G4,OU=Symantec Trust Network,O=Symantec Corporation,C=US
Serial Number:4c:79:b5:9a:28:9c:76:31:64:f5:89:44:d0:91:02:de
Subject: CN=Symantec Class 3 Public Primary Certification Authority - G4,OU=Symantec Trust Network,O=Symantec Corporation,C=US
Not Valid Before: Thu Oct 18 00:00:00 2012
Not Valid After: Tue Dec 01 23:59:59 2037
Fingerprint (MD5): 36:c9:b7:4b:6c:b0:21:4c:c7:11:17:b1:18:fe:2b:4d
Fingerprint (SHA1): 58:d5:2d:b9:33:01:a4:fd:29:1a:8c:96:45:a0:8f:ee:7f:52:92:82
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 3 Public Primary Certification Authority - G4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\130\325\055\271\063\001\244\375\051\032\214\226\105\240\217\356
\177\122\222\202
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\066\311\267\113\154\260\041\114\307\021\027\261\030\376\053\115
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\063\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\114\171\265\232\050\234\166\061\144\365\211\104\320\221
\002\336
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Halcom Root CA"
Issuer: CN=Halcom Root CA,O=Halcom,C=SI
Serial Number: 504275 (0x7b1d3)
Subject: CN=Halcom Root CA,O=Halcom,C=SI
Not Valid Before: Wed Feb 08 09:55:41 2012
Not Valid After: Sun Feb 08 09:55:41 2032
Fingerprint (MD5): c3:8b:d2:53:ac:00:ec:d1:db:97:61:a5:38:d9:7d:87
Fingerprint (SHA1): 53:5b:00:16:72:ab:bf:7b:6c:c2:54:05:ae:4d:24:fe:03:3f:d1:cc
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Halcom Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\067\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\017\060\015\006\003\125\004\012\023\006\110\141\154\143\157\155
\061\027\060\025\006\003\125\004\003\023\016\110\141\154\143\157
\155\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\067\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\017\060\015\006\003\125\004\012\023\006\110\141\154\143\157\155
\061\027\060\025\006\003\125\004\003\023\016\110\141\154\143\157
\155\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\007\261\323
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\036\060\202\002\006\240\003\002\001\002\002\003\007
\261\323\060\015\006\011\052\206\110\206\367\015\001\001\015\005
\000\060\067\061\013\060\011\006\003\125\004\006\023\002\123\111
\061\017\060\015\006\003\125\004\012\023\006\110\141\154\143\157
\155\061\027\060\025\006\003\125\004\003\023\016\110\141\154\143
\157\155\040\122\157\157\164\040\103\101\060\036\027\015\061\062
\060\062\060\070\060\071\065\065\064\061\132\027\015\063\062\060
\062\060\070\060\071\065\065\064\061\132\060\067\061\013\060\011
\006\003\125\004\006\023\002\123\111\061\017\060\015\006\003\125
\004\012\023\006\110\141\154\143\157\155\061\027\060\025\006\003
\125\004\003\023\016\110\141\154\143\157\155\040\122\157\157\164
\040\103\101\060\202\001\042\060\015\006\011\052\206\110\206\367
\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002
\202\001\001\000\211\271\205\312\376\364\165\175\177\354\235\102
\067\272\272\215\274\354\075\027\003\375\331\105\145\326\315\311
\116\137\214\110\134\227\010\127\024\213\055\234\074\220\111\231

\317\151\257\111\215\333\034\001\260\156\351\364\352\221\147\135
\312\263\151\117\330\314\301\015\075\356\252\003\166\340\311\160
\242\237\376\353\233\320\266\311\226\323\360\373\133\320\360\007
\253\114\136\115\244\342\107\136\005\150\164\246\216\042\107\356
\176\323\147\204\124\067\222\107\016\363\243\354\025\032\363\155
\173\277\031\065\041\217\202\113\254\124\234\011\315\156\266\301
\127\275\320\111\075\157\237\163\216\261\154\176\275\376\326\273
\075\003\350\346\114\032\264\356\257\264\203\116\062\220\124\366
\116\033\341\057\316\245\064\032\216\243\040\371\331\076\042\153
\157\156\343\372\331\063\134\010\240\367\025\000\075\234\020\222
\112\125\315\200\262\006\252\375\327\217\267\132\222\047\044\017
\063\074\050\272\361\037\150\265\167\051\136\256\302\332\215\066
\160\342\172\062\033\043\246\336\305\141\015\232\245\022\040\265
\363\226\131\265\002\003\001\000\001\243\063\060\061\060\017\006
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\021
\006\003\125\035\016\004\012\004\010\116\224\330\212\143\302\317
\171\060\013\006\003\125\035\017\004\004\003\002\001\006\060\015
\006\011\052\206\110\206\367\015\001\001\015\005\000\003\202\001
\001\000\051\276\347\261\344\372\003\242\017\257\166\131\235\370
\116\123\115\074\004\203\237\241\342\214\366\224\331\264\256\150
\052\126\153\062\123\050\203\007\162\114\260\116\250\035\201\203
\041\147\003\067\321\214\306\301\116\204\351\064\073\323\365\365
\047\266\215\043\005\122\270\114\062\362\056\332\321\052\175\076
\203\003\052\322\261\343\232\351\212\203\102\360\054\012\241\123
\017\300\053\342\217\032\116\225\271\105\274\113\147\072\275\062
\363\255\245\217\217\303\056\352\366\364\173\142\320\156\156\305
\141\061\023\146\346\147\111\231\073\057\200\117\172\174\163\212
\003\015\137\365\263\062\050\012\212\300\341\371\270\243\046\356
\334\033\127\317\166\032\117\123\276\366\112\213\127\027\053\057
\231\206\252\336\214\332\266\250\154\337\150\066\326\141\213\156
\300\163\116\267\071\105\364\175\316\111\304\363\035\371\251\167
\154\357\357\222\025\023\047\231\106\350\237\251\212\033\237\051
\057\242\035\076\326\053\307\344\125\020\072\030\367\263\173\117
\056\307\000\042\355\344\061\320\347\270\344\124\117\301\200\105
\045\156
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Halcom Root CA"
Issuer: CN=Halcom Root CA,O=Halcom,C=SI
Serial Number: 504275 (0x7b1d3)
Subject: CN=Halcom Root CA,O=Halcom,C=SI
Not Valid Before: Wed Feb 08 09:55:41 2012
Not Valid After: Sun Feb 08 09:55:41 2032
Fingerprint (MD5): c3:8b:d2:53:ac:00:ec:d1:db:97:61:a5:38:d9:7d:87

Fingerprint (SHA1): 53:5b:00:16:72:ab:bf:7b:6c:c2:54:05:ae:4d:24:fe:03:3f:d1:cc
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Halcom Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\123\133\000\026\162\253\277\173\154\302\124\005\256\115\044\376
\003\077\321\314
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\303\213\322\123\254\000\354\321\333\227\141\245\070\331\175\207
END
CKA_ISSUER MULTILINE_OCTAL
\060\067\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\017\060\015\006\003\125\004\012\023\006\110\141\154\143\157\155
\061\027\060\025\006\003\125\004\003\023\016\110\141\154\143\157
\155\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\007\261\323
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Swisscom Root EV CA 2"
Issuer: CN=Swisscom Root EV CA 2,OU=Digital Certificate Services,O=Swisscom,C=ch
Serial Number:f2:fa:64:e2:74:63:d3:8d:fd:10:1d:04:1f:76:ca:58
Subject: CN=Swisscom Root EV CA 2,OU=Digital Certificate Services,O=Swisscom,C=ch
Not Valid Before: Fri Jun 24 09:45:08 2011
Not Valid After: Wed Jun 25 08:45:08 2031
Fingerprint (MD5): 7b:30:34:9f:dd:0a:4b:6b:35:ca:31:51:28:5d:ae:ec
Fingerprint (SHA1): e7:a1:90:29:d3:d5:52:dc:0d:0f:c6:92:d3:ea:88:0d:15:2e:1a:6b
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Swisscom Root EV CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\147\061\013\060\011\006\003\125\004\006\023\002\143\150\061
\021\060\017\006\003\125\004\012\023\010\123\167\151\163\163\143
\157\155\061\045\060\043\006\003\125\004\013\023\034\104\151\147
\151\164\141\154\040\103\145\162\164\151\146\151\143\141\164\145
\040\123\145\162\166\151\143\145\163\061\036\060\034\006\003\125

\004\003\023\025\123\167\151\163\163\143\157\155\040\122\157\157
\164\040\105\126\040\103\101\040\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\147\061\013\060\011\006\003\125\004\006\023\002\143\150\061
\021\060\017\006\003\125\004\012\023\010\123\167\151\163\163\143
\157\155\061\045\060\043\006\003\125\004\013\023\034\104\151\147
\151\164\141\154\040\103\145\162\164\151\146\151\143\141\164\145
\040\123\145\162\166\151\143\145\163\061\036\060\034\006\003\125
\004\003\023\025\123\167\151\163\163\143\157\155\040\122\157\157
\164\040\105\126\040\103\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\362\372\144\342\164\143\323\215\375\020\035\004\037
\166\312\130
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\340\060\202\003\310\240\003\002\001\002\002\021\000
\362\372\144\342\164\143\323\215\375\020\035\004\037\166\312\130
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\147\061\013\060\011\006\003\125\004\006\023\002\143\150\061\021
\060\017\006\003\125\004\012\023\010\123\167\151\163\163\143\157
\155\061\045\060\043\006\003\125\004\013\023\034\104\151\147\151
\164\141\154\040\103\145\162\164\151\146\151\143\141\164\145\040
\123\145\162\166\151\143\145\163\061\036\060\034\006\003\125\004
\003\023\025\123\167\151\163\163\143\157\155\040\122\157\157\164
\040\105\126\040\103\101\040\062\060\036\027\015\061\061\060\066
\062\064\060\071\064\065\060\070\132\027\015\063\061\060\066\062
\065\060\070\064\065\060\070\132\060\147\061\013\060\011\006\003
\125\004\006\023\002\143\150\061\021\060\017\006\003\125\004\012
\023\010\123\167\151\163\163\143\157\155\061\045\060\043\006\003
\125\004\013\023\034\104\151\147\151\164\141\154\040\103\145\162
\164\151\146\151\143\141\164\145\040\123\145\162\166\151\143\145
\163\061\036\060\034\006\003\125\004\003\023\025\123\167\151\163
\163\143\157\155\040\122\157\157\164\040\105\126\040\103\101\040
\062\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002
\001\000\304\367\035\057\127\352\127\154\367\160\135\143\260\161
\122\011\140\104\050\063\243\172\116\012\372\330\352\154\213\121
\026\032\125\256\124\046\304\314\105\007\101\117\020\171\177\161
\322\172\116\077\070\116\263\000\306\225\312\133\315\301\052\203
\327\047\037\061\016\043\026\267\045\313\034\264\271\200\062\136
\032\235\223\361\350\074\140\054\247\136\127\031\130\121\136\274
\054\126\013\270\330\357\213\202\264\074\270\302\044\250\023\307
\240\041\066\033\172\127\051\050\247\056\277\161\045\220\363\104
\203\151\120\244\344\341\033\142\031\224\011\243\363\303\274\357
\364\275\354\333\023\235\317\235\110\011\122\147\300\067\051\021

\036\373\322\021\247\205\030\164\171\344\117\205\024\353\122\067
\342\261\105\330\314\015\103\177\256\023\322\153\053\077\247\302
\342\250\155\166\133\103\237\276\264\235\263\046\206\073\037\177
\345\362\350\146\050\026\045\320\113\227\070\247\344\317\011\321
\066\303\013\276\332\073\104\130\215\276\361\236\011\153\076\363
\062\307\053\207\306\354\136\234\366\207\145\255\063\051\304\057
\211\331\271\313\311\003\235\373\154\224\121\227\020\033\206\013
\032\033\077\366\002\176\173\324\305\121\144\050\235\365\323\254
\203\201\210\323\164\264\131\235\301\353\141\063\132\105\321\313
\071\320\006\152\123\140\035\257\366\373\151\274\152\334\001\317
\275\371\217\331\275\133\301\072\137\216\332\017\113\251\233\235
\052\050\153\032\012\174\074\253\042\013\345\167\055\161\366\202
\065\201\256\370\173\201\346\352\376\254\364\032\233\164\134\350
\217\044\366\135\235\106\304\054\322\036\053\041\152\203\047\147
\125\112\244\343\310\062\227\146\220\162\332\343\324\144\056\137
\343\241\152\366\140\324\347\065\315\312\304\150\215\327\161\310
\323\044\063\163\261\154\371\152\341\050\333\137\306\075\350\276
\125\346\067\033\355\044\331\017\031\217\137\143\030\130\120\201
\121\145\157\362\237\176\152\004\347\064\044\161\272\166\113\130
\036\031\275\025\140\105\252\014\022\100\001\235\020\342\307\070
\007\162\012\145\300\266\273\045\051\332\026\236\213\065\213\141
\355\345\161\127\203\265\074\161\237\343\117\277\176\036\201\237
\101\227\002\003\001\000\001\243\201\206\060\201\203\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\206\060\035\006
\003\125\035\041\004\026\060\024\060\022\006\007\140\205\164\001
\123\002\002\006\007\140\205\164\001\123\002\002\060\022\006\003
\125\035\023\001\001\377\004\010\060\006\001\001\377\002\001\003
\060\035\006\003\125\035\016\004\026\004\024\105\331\245\201\156
\075\210\115\215\161\322\106\301\156\105\036\363\304\200\235\060
\037\006\003\125\035\043\004\030\060\026\200\024\105\331\245\201
\156\075\210\115\215\161\322\106\301\156\105\036\363\304\200\235
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003
\202\002\001\000\224\072\163\006\237\122\113\060\134\324\376\261
\134\045\371\327\216\157\365\207\144\237\355\024\216\270\004\216
\050\113\217\252\173\216\071\264\331\130\366\173\241\065\012\241
\235\212\367\143\345\353\275\071\202\324\343\172\055\157\337\023
\074\272\376\176\126\230\013\363\124\237\315\104\116\156\074\341
\076\025\277\006\046\235\344\360\220\266\324\302\236\060\056\037
\357\307\172\304\120\307\352\173\332\120\313\172\046\313\000\264
\132\253\265\223\037\200\211\204\004\225\215\215\177\011\223\277
\324\250\250\344\143\155\331\144\344\270\051\132\010\277\120\341
\204\017\125\173\137\010\042\033\365\275\231\036\024\366\316\364
\130\020\202\263\012\075\031\301\277\133\253\252\231\330\362\061
\275\345\070\146\334\130\005\307\355\143\032\056\012\227\174\207
\223\053\262\212\343\361\354\030\345\165\266\051\207\347\334\213
\032\176\264\330\311\323\212\027\154\175\051\104\276\212\252\365
\176\072\056\150\061\223\271\152\332\232\340\333\351\056\245\204
\315\034\012\270\112\010\371\234\361\141\046\230\223\267\173\146

\354\221\136\335\121\077\333\163\017\255\004\130\011\335\004\002
\225\012\076\323\166\337\246\020\036\200\075\350\315\244\144\321
\063\307\222\307\342\116\104\343\011\311\116\302\135\207\016\022
\236\277\017\311\005\020\336\172\243\261\074\362\077\245\252\047
\171\255\061\175\037\375\374\031\151\305\335\271\077\174\315\306
\264\302\060\036\176\156\222\327\177\141\166\132\217\353\225\115
\274\021\156\041\174\131\067\231\320\006\274\371\006\155\062\026
\245\331\151\250\341\334\074\200\036\140\121\334\327\124\041\036
\312\142\167\117\372\330\217\263\053\072\015\170\162\311\150\101
\132\107\112\302\243\353\032\327\012\253\074\062\125\310\012\021
\234\337\164\326\360\100\025\035\310\271\217\265\066\305\257\370
\042\270\312\035\363\326\266\031\017\237\141\145\152\352\164\310
\174\217\303\117\135\145\202\037\331\015\211\332\165\162\373\357
\361\107\147\023\263\310\321\031\210\047\046\232\231\171\177\036
\344\054\077\173\356\361\336\115\213\226\227\303\325\077\174\033
\043\355\244\263\035\026\162\103\113\040\341\131\176\302\350\255
\046\277\242\367
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Swisscom Root EV CA 2"
Issuer: CN=Swisscom Root EV CA 2,OU=Digital Certificate Services,O=Swisscom,C=ch
Serial Number:f2:fa:64:e2:74:63:d3:8d:fd:10:1d:04:1f:76:ca:58
Subject: CN=Swisscom Root EV CA 2,OU=Digital Certificate Services,O=Swisscom,C=ch
Not Valid Before: Fri Jun 24 09:45:08 2011
Not Valid After: Wed Jun 25 08:45:08 2031
Fingerprint (MD5): 7b:30:34:9f:dd:0a:4b:6b:35:ca:31:51:28:5d:ae:ec
Fingerprint (SHA1): e7:a1:90:29:d3:d5:52:dc:0d:0f:c6:92:d3:ea:88:0d:15:2e:1a:6b
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Swisscom Root EV CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\347\241\220\051\323\325\122\334\015\017\306\222\323\352\210\015
\025\056\032\153
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\173\060\064\237\335\012\113\153\065\312\061\121\050\135\256\354
END
CKA_ISSUER MULTILINE_OCTAL
\060\147\061\013\060\011\006\003\125\004\006\023\002\143\150\061
\021\060\017\006\003\125\004\012\023\010\123\167\151\163\163\143
\157\155\061\045\060\043\006\003\125\004\013\023\034\104\151\147
\151\164\141\154\040\103\145\162\164\151\146\151\143\141\164\145

\040\123\145\162\166\151\143\145\163\061\036\060\034\006\003\125
\004\003\023\025\123\167\151\163\163\143\157\155\040\122\157\157
\164\040\105\126\040\103\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\362\372\144\342\164\143\323\215\375\020\035\004\037
\166\312\130
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "CFCA GT CA"
Issuer: O=CFCA GT CA,C=CN
Serial Number:19:99:3c:3f
Subject: O=CFCA GT CA,C=CN
Not Valid Before: Mon Jun 13 08:15:09 2011
Not Valid After: Tue Jun 09 08:15:09 2026
Fingerprint (MD5): 2c:cd:f3:c5:59:a6:84:64:a0:67:50:ff:4b:4c:d6:14
Fingerprint (SHA1): ea:bd:a2:40:44:0a:bb:d6:94:93:0a:01:d0:97:64:c6:c2:d7:79:66
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CFCA GT CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\042\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\023\060\021\006\003\125\004\012\023\012\103\106\103\101\040\107
\124\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\042\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\023\060\021\006\003\125\004\012\023\012\103\106\103\101\040\107
\124\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\031\231\074\077
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\037\060\202\002\007\240\003\002\001\002\002\004\031
\231\074\077\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\060\042\061\013\060\011\006\003\125\004\006\023\002\103
\116\061\023\060\021\006\003\125\004\012\023\012\103\106\103\101
\040\107\124\040\103\101\060\036\027\015\061\061\060\066\061\063

\060\070\061\065\060\071\132\027\015\062\066\060\066\060\071\060
\070\061\065\060\071\132\060\042\061\013\060\011\006\003\125\004
\006\023\002\103\116\061\023\060\021\006\003\125\004\012\023\012
\103\106\103\101\040\107\124\040\103\101\060\202\001\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001
\017\000\060\202\001\012\002\202\001\001\000\277\163\306\132\053
\214\170\366\130\267\374\322\027\220\245\053\164\354\201\054\223
\315\122\314\156\344\052\313\044\241\061\344\255\060\156\343\230
\042\061\327\041\233\237\325\017\067\057\132\273\070\242\267\171
\046\147\326\015\305\027\052\234\271\124\004\341\015\165\206\156
\330\314\305\200\147\033\310\214\055\000\046\206\074\172\171\076
\266\251\302\116\040\260\067\227\306\205\166\022\202\012\347\124
\273\213\376\075\256\343\354\153\130\103\366\245\067\353\130\242
\275\220\304\345\373\312\153\312\060\154\267\173\211\366\061\322
\214\377\117\302\226\045\103\251\161\065\045\013\030\341\254\310
\243\044\266\161\223\214\361\135\374\234\020\005\173\377\300\133
\340\261\227\255\037\330\376\105\365\300\037\235\133\107\071\034
\006\372\333\146\205\333\044\043\352\173\322\071\040\370\353\052
\262\032\121\363\224\132\050\002\116\247\134\107\156\317\374\331
\350\346\141\132\026\047\307\025\015\230\331\350\323\003\065\220
\051\337\262\057\215\020\167\043\310\270\172\323\021\141\152\363
\377\201\222\245\354\102\113\150\116\200\327\002\003\001\000\001
\243\135\060\133\060\037\006\003\125\035\043\004\030\060\026\200
\024\214\166\120\316\045\323\171\053\074\364\155\235\232\341\236
\005\117\350\075\045\060\014\006\003\125\035\023\004\005\060\003
\001\001\377\060\013\006\003\125\035\017\004\004\003\002\001\306
\060\035\006\003\125\035\016\004\026\004\024\214\166\120\316\045
\323\171\053\074\364\155\235\232\341\236\005\117\350\075\045\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202
\001\001\000\276\273\226\130\324\335\211\211\017\054\315\372\143
\105\166\015\071\200\232\215\372\250\105\141\075\041\125\350\316
\150\307\031\351\302\261\007\302\213\073\057\317\141\205\220\247
\122\027\062\072\257\012\005\025\310\306\316\335\216\224\046\006
\370\320\140\356\263\156\324\015\272\132\335\253\240\174\120\162
\246\325\220\223\126\327\131\071\333\350\177\263\225\170\123\201
\122\122\137\364\222\201\002\301\373\042\271\321\003\127\247\176
\313\373\300\106\274\023\164\114\050\053\166\222\151\037\301\120
\221\021\305\114\336\013\224\214\027\203\214\257\067\207\264\352
\153\157\242\132\065\101\141\205\057\234\027\300\373\271\016\242
\141\006\107\166\274\220\011\230\164\015\322\010\057\275\344\015
\162\361\246\137\303\174\300\175\352\274\323\253\040\221\313\134
\005\214\235\250\065\372\066\126\273\011\363\204\135\326\361\342
\054\236\331\176\361\202\240\341\267\057\176\355\371\173\240\000
\270\262\336\035\171\341\201\363\122\131\232\024\135\347\302\021
\363\232\303\072\170\043\276\116\146\336\244\071\151\362\230\072
\054\012\000
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "CFCA GT CA"
Issuer: O=CFCA GT CA,C=CN
Serial Number:19:99:3c:3f
Subject: O=CFCA GT CA,C=CN
Not Valid Before: Mon Jun 13 08:15:09 2011
Not Valid After: Tue Jun 09 08:15:09 2026
Fingerprint (MD5): 2c:cd:f3:c5:59:a6:84:64:a0:67:50:ff:4b:4c:d6:14
Fingerprint (SHA1): ea:bd:a2:40:44:0a:bb:d6:94:93:0a:01:d0:97:64:c6:c2:d7:79:66
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CFCA GT CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\352\275\242\100\104\012\273\326\224\223\012\001\320\227\144\306
\302\327\171\146
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\054\315\363\305\131\246\204\144\240\147\120\377\113\114\326\024
END
CKA_ISSUER MULTILINE_OCTAL
\060\042\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\023\060\021\006\003\125\004\012\023\012\103\106\103\101\040\107
\124\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\031\231\074\077
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Digidentity L3 Root CA - G2"
Issuer: CN=Digidentity L3 Root CA - G2,O=Digidentity B.V.,C=NL
Serial Number: 1 (0x1)
Subject: CN=Digidentity L3 Root CA - G2,O=Digidentity B.V.,C=NL
Not Valid Before: Fri Apr 29 10:44:19 2011
Not Valid After: Mon Nov 10 10:44:19 2031
Fingerprint (MD5): 26:8f:5b:c8:b6:3f:88:8c:4c:49:08:2e:18:c1:02:10
Fingerprint (SHA1): f1:38:a3:30:a4:ea:98:6b:eb:52:0b:b1:10:35:87:6e:fb:9d:7f:1c
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Digidentity L3 Root CA - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\031\060\027\006\003\125\004\012\023\020\104\151\147\151\144\145
\156\164\151\164\171\040\102\056\126\056\061\044\060\042\006\003
\125\004\003\023\033\104\151\147\151\144\145\156\164\151\164\171
\040\114\063\040\122\157\157\164\040\103\101\040\055\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\031\060\027\006\003\125\004\012\023\020\104\151\147\151\144\145
\156\164\151\164\171\040\102\056\126\056\061\044\060\042\006\003
\125\004\003\023\033\104\151\147\151\144\145\156\164\151\164\171
\040\114\063\040\122\157\157\164\040\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\241\060\202\003\211\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\116\061\013\060\011\006\003\125\004\006\023\002\116\114\061\031
\060\027\006\003\125\004\012\023\020\104\151\147\151\144\145\156
\164\151\164\171\040\102\056\126\056\061\044\060\042\006\003\125
\004\003\023\033\104\151\147\151\144\145\156\164\151\164\171\040
\114\063\040\122\157\157\164\040\103\101\040\055\040\107\062\060
\036\027\015\061\061\060\064\062\071\061\060\064\064\061\071\132
\027\015\063\061\061\061\061\060\061\060\064\064\061\071\132\060
\116\061\013\060\011\006\003\125\004\006\023\002\116\114\061\031
\060\027\006\003\125\004\012\023\020\104\151\147\151\144\145\156
\164\151\164\171\040\102\056\126\056\061\044\060\042\006\003\125
\004\003\023\033\104\151\147\151\144\145\156\164\151\164\171\040
\114\063\040\122\157\157\164\040\103\101\040\055\040\107\062\060
\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001
\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000
\270\021\243\105\336\001\107\126\015\142\270\216\272\130\146\134
\372\062\306\153\200\156\270\177\370\123\337\176\337\142\250\301
\127\117\232\105\045\310\112\105\055\123\070\044\263\040\254\117
\352\255\377\232\020\257\177\342\016\312\264\016\044\045\221\316
\166\216\020\251\057\231\123\247\220\113\004\213\155\172\271\101
\033\323\001\171\214\237\101\153\271\220\327\201\022\032\007\226
\320\011\257\351\344\152\041\123\200\270\206\236\142\150\103\255
\263\152\025\372\366\155\003\062\152\065\261\120\023\110\307\172
\265\041\023\234\004\234\332\223\371\152\053\301\247\030\375\366

\300\176\131\366\373\347\016\021\265\334\043\352\034\357\147\005
\127\316\027\351\361\173\261\321\062\044\214\317\145\347\324\274
\066\031\160\174\242\047\041\326\200\322\055\025\117\112\265\340
\125\220\225\121\223\041\200\363\234\104\037\377\035\125\125\344
\342\020\021\224\026\123\320\376\257\363\357\227\272\106\342\167
\133\313\326\242\131\021\210\246\347\125\101\303\222\145\035\043
\024\142\024\177\045\162\040\366\244\207\051\157\007\374\376\340
\320\030\322\227\371\024\216\066\306\350\014\030\227\361\166\034
\364\044\332\343\112\371\267\114\022\031\147\363\360\341\123\373
\135\344\300\164\143\137\045\221\012\331\076\364\063\254\344\013
\165\137\316\346\230\274\124\015\235\242\061\305\025\124\135\042
\034\213\072\124\246\015\321\327\043\072\254\076\252\112\027\144
\166\055\015\373\124\345\353\202\074\071\101\103\235\341\256\171
\140\317\146\356\307\161\203\173\014\153\011\333\236\242\115\116
\106\223\150\267\372\147\341\332\277\337\221\200\332\243\242\211
\255\136\154\314\113\167\165\144\157\215\044\343\210\210\013\343
\077\351\277\247\345\126\142\015\203\177\275\152\141\310\220\211
\170\133\014\257\022\052\342\223\255\144\347\331\105\056\366\260
\310\253\105\356\160\070\157\273\065\076\026\376\253\236\303\146
\057\363\276\011\140\325\157\200\275\115\333\257\215\376\014\140
\063\153\017\350\235\153\304\060\167\237\054\120\070\320\230\151
\354\067\350\236\017\344\142\352\372\377\021\104\124\331\357\315
\223\165\221\114\341\211\145\246\224\271\123\371\371\111\143\305
\002\003\001\000\001\243\201\211\060\201\206\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003
\125\035\016\004\026\004\024\053\043\040\140\275\055\212\210\107
\254\255\053\276\002\071\272\230\324\354\230\060\104\006\003\125
\035\040\004\075\060\073\060\071\006\004\125\035\040\000\060\061
\060\057\006\010\053\006\001\005\005\007\002\001\026\043\150\164
\164\160\072\057\057\160\153\151\056\144\151\147\151\144\145\156
\164\151\164\171\056\145\165\057\166\141\154\151\144\141\164\151
\145\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000
\003\202\002\001\000\251\375\357\272\217\033\176\062\022\147\035
\101\015\055\246\213\317\362\364\255\126\170\176\012\230\330\233
\250\321\264\113\054\046\254\344\322\177\147\067\275\011\215\345
\271\163\021\072\156\011\307\127\144\007\041\064\370\016\135\052
\330\221\174\361\124\121\274\234\360\014\152\102\364\074\001\116
\223\105\101\075\254\363\230\113\036\161\036\063\131\062\377\174
\060\360\134\344\341\276\055\056\265\352\335\142\041\016\075\264
\015\225\374\311\270\331\272\240\367\142\247\355\303\003\256\010
\054\101\325\357\103\161\070\267\024\162\256\077\364\024\164\107
\330\336\214\121\171\316\357\261\124\254\160\107\226\176\055\056
\335\233\356\241\001\056\031\357\276\130\140\161\055\255\227\133
\132\140\060\313\062\202\142\116\126\345\147\152\264\322\061\124
\162\077\002\320\274\060\071\217\267\103\011\052\037\046\073\014
\307\174\035\233\200\140\204\016\351\056\322\371\025\273\133\340
\212\244\000\351\343\051\373\050\133\275\066\105\140\041\103\061

\377\160\241\137\134\203\133\227\174\015\267\123\131\354\230\265
\116\342\051\261\324\174\106\343\350\343\103\352\072\226\065\037
\123\361\004\026\045\343\054\363\150\241\246\221\337\025\373\275
\237\346\116\236\302\124\153\176\042\127\343\244\234\134\042\045
\037\201\257\231\310\337\021\025\110\103\370\263\063\251\043\177
\016\063\217\274\106\035\103\264\073\140\365\227\205\031\242\026
\260\125\334\032\160\051\145\332\331\176\011\027\064\353\211\272
\351\141\222\330\336\064\143\074\112\125\152\277\332\206\355\316
\063\336\273\123\157\317\034\332\224\117\166\124\254\145\125\020
\123\232\310\270\153\334\006\346\272\345\121\325\101\177\037\304
\300\101\241\140\221\064\363\023\202\321\241\167\323\367\114\344
\031\377\327\104\232\260\265\274\334\312\136\217\334\316\361\240
\151\066\340\104\222\056\231\372\274\257\263\307\170\072\125\146
\307\153\245\344\151\046\351\064\035\037\052\227\012\351\167\251
\167\133\163\110\062\201\277\377\321\354\203\305\160\203\151\236
\230\033\303\127\337\221\225\034\200\374\215\350\226\203\005\323
\237\172\210\173\372\350\127\361\301\204\050\275\315\326\034\314
\245\342\111\012\163
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Digidentity L3 Root CA - G2"
Issuer: CN=Digidentity L3 Root CA - G2,O=Digidentity B.V.,C=NL
Serial Number: 1 (0x1)
Subject: CN=Digidentity L3 Root CA - G2,O=Digidentity B.V.,C=NL
Not Valid Before: Fri Apr 29 10:44:19 2011
Not Valid After: Mon Nov 10 10:44:19 2031
Fingerprint (MD5): 26:8f:5b:c8:b6:3f:88:8c:4c:49:08:2e:18:c1:02:10
Fingerprint (SHA1): f1:38:a3:30:a4:ea:98:6b:eb:52:0b:b1:10:35:87:6e:fb:9d:7f:1c
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Digidentity L3 Root CA - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\361\070\243\060\244\352\230\153\353\122\013\261\020\065\207\156
\373\235\177\034
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\046\217\133\310\266\077\210\214\114\111\010\056\030\301\002\020
END
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\031\060\027\006\003\125\004\012\023\020\104\151\147\151\144\145
\156\164\151\164\171\040\102\056\126\056\061\044\060\042\006\003

\125\004\003\023\033\104\151\147\151\144\145\156\164\151\164\171
\040\114\063\040\122\157\157\164\040\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "SITHS Root CA v1"
Issuer: CN=SITHS Root CA v1,O=Inera AB,C=SE
Serial Number:90:66:61:a8:62:3d:65:44:77:04:3f:71:9a:c3:97:0c
Subject: CN=SITHS Root CA v1,O=Inera AB,C=SE
Not Valid Before: Thu Mar 29 07:54:49 2012
Not Valid After: Mon Mar 29 07:54:49 2032
Fingerprint (MD5): 7f:7b:02:6c:68:9f:32:03:c7:af:04:9d:ec:23:df:f3
Fingerprint (SHA1): 58:5f:78:75:be:e7:43:3e:b0:79:ea:ab:7d:05:bb:0f:7a:f2:bc:cc
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SITHS Root CA v1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\123\105\061
\021\060\017\006\003\125\004\012\014\010\111\156\145\162\141\040
\101\102\061\031\060\027\006\003\125\004\003\014\020\123\111\124
\110\123\040\122\157\157\164\040\103\101\040\166\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\123\105\061
\021\060\017\006\003\125\004\012\014\010\111\156\145\162\141\040
\101\102\061\031\060\027\006\003\125\004\003\014\020\123\111\124
\110\123\040\122\157\157\164\040\103\101\040\166\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\220\146\141\250\142\075\145\104\167\004\077\161\232
\303\227\014
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\223\060\202\003\173\240\003\002\001\002\002\021\000
\220\146\141\250\142\075\145\104\167\004\077\161\232\303\227\014
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\073\061\013\060\011\006\003\125\004\006\023\002\123\105\061\021

\060\017\006\003\125\004\012\014\010\111\156\145\162\141\040\101
\102\061\031\060\027\006\003\125\004\003\014\020\123\111\124\110
\123\040\122\157\157\164\040\103\101\040\166\061\060\036\027\015
\061\062\060\063\062\071\060\067\065\064\064\071\132\027\015\063
\062\060\063\062\071\060\067\065\064\064\071\132\060\073\061\013
\060\011\006\003\125\004\006\023\002\123\105\061\021\060\017\006
\003\125\004\012\014\010\111\156\145\162\141\040\101\102\061\031
\060\027\006\003\125\004\003\014\020\123\111\124\110\123\040\122
\157\157\164\040\103\101\040\166\061\060\202\002\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017
\000\060\202\002\012\002\202\002\001\000\300\355\346\236\250\254
\250\377\330\065\271\374\373\360\225\117\077\075\107\043\321\222
\311\311\370\360\342\037\206\255\210\077\340\000\317\117\021\225
\141\075\245\326\040\031\321\210\322\302\126\011\105\040\241\052
\352\042\303\352\272\314\102\151\236\270\205\237\160\300\154\247
\276\157\243\134\335\103\210\007\315\312\051\337\151\172\037\055
\237\126\152\033\142\040\041\141\306\120\113\145\165\111\106\277
\134\327\051\036\302\036\205\102\341\016\070\115\303\066\161\102
\104\121\072\321\130\314\311\264\252\154\100\307\203\361\307\011
\237\112\363\153\363\007\026\065\364\202\216\136\213\204\334\161
\171\271\373\156\127\105\267\305\160\072\377\102\002\321\064\277
\205\160\155\117\217\347\037\031\041\367\325\064\274\356\131\346
\056\042\363\161\202\142\031\237\005\144\174\073\042\161\030\245
\055\301\170\130\231\321\257\336\224\100\006\031\166\023\120\207
\043\313\107\127\256\154\305\023\352\232\205\122\303\312\127\046
\037\336\026\155\255\161\176\362\330\141\375\346\066\116\161\032
\235\323\040\065\255\022\041\130\165\066\213\211\026\244\067\050
\317\240\203\072\100\243\312\021\357\264\345\220\033\343\145\222
\147\230\157\016\051\345\147\030\327\210\372\215\266\307\172\245
\240\177\221\036\253\266\371\164\230\166\122\140\057\132\067\231
\250\333\321\076\326\204\152\157\122\323\264\332\032\307\270\262
\321\224\021\037\305\210\211\351\133\251\243\224\346\242\175\115
\247\062\211\241\336\046\153\315\325\243\362\062\033\332\065\023
\211\021\111\115\277\106\061\273\351\055\023\370\016\000\245\376
\003\365\126\106\074\217\023\053\340\345\307\036\003\337\212\352
\106\205\105\206\331\355\136\013\270\144\223\364\320\130\056\051
\215\105\127\115\211\165\220\145\314\152\073\301\234\200\271\264
\200\065\003\216\337\156\052\223\276\246\276\012\001\104\157\100
\163\252\052\202\034\204\166\177\151\335\261\273\222\130\350\100
\121\162\134\367\076\071\104\372\245\231\240\177\215\213\260\101
\130\167\255\042\305\240\300\272\375\061\231\065\152\331\311\040
\032\136\363\275\274\010\177\335\111\055\057\235\221\020\015\133
\250\077\317\264\127\163\073\133\340\147\002\003\001\000\001\243
\201\221\060\201\216\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\114\006\003\125\035\040\004\105\060
\103\060\101\006\011\052\205\160\112\010\001\002\001\001\060\064
\060\062\006\010\053\006\001\005\005\007\002\001\026\046\150\164
\164\160\072\057\057\143\160\163\056\163\151\164\150\163\056\163

\145\057\163\151\164\150\163\162\157\157\164\143\141\166\061\056
\150\164\155\154\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\006\060\035\006\003\125\035\016\004\026\004\024\062
\371\235\117\151\351\230\215\240\326\214\175\371\035\316\243\074
\272\166\025\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\003\202\002\001\000\037\077\343\170\130\310\012\312\064
\042\011\330\262\005\213\321\145\234\341\327\327\175\012\300\034
\230\245\044\122\070\063\332\144\042\043\200\256\376\075\200\276
\117\217\335\203\366\015\114\063\132\325\243\073\120\212\122\132
\046\024\163\121\224\344\122\227\143\333\267\006\250\357\217\255
\342\355\336\243\277\040\321\106\333\055\170\350\054\047\104\234
\074\354\267\027\374\211\227\363\243\242\136\302\131\123\340\317
\344\265\001\073\143\123\050\323\257\146\113\064\071\257\141\016
\076\233\356\263\211\326\223\240\073\001\304\263\043\124\020\074
\115\327\252\260\332\331\154\312\060\104\055\335\262\050\142\212
\101\140\362\100\023\154\260\174\076\101\340\213\246\064\361\347
\256\121\207\003\216\231\177\331\150\242\366\234\015\171\202\262
\237\337\044\310\146\140\350\266\110\104\047\310\153\126\267\104
\205\316\002\267\323\212\161\134\127\121\127\041\214\352\302\121
\017\120\077\200\253\004\115\311\122\335\344\245\362\056\037\155
\165\272\207\035\220\013\356\030\204\200\163\273\213\225\204\212
\141\015\116\135\142\237\343\146\014\373\066\016\047\323\110\370
\006\210\006\245\137\356\176\134\335\255\012\035\075\034\252\100
\171\230\171\270\120\214\066\215\013\012\066\013\325\076\347\135
\201\335\154\334\155\261\157\015\164\236\054\057\302\005\362\104
\021\262\063\372\201\305\112\155\076\105\326\054\342\153\137\056
\344\103\225\121\033\231\061\005\337\045\033\163\321\173\234\304
\163\111\373\142\140\331\151\143\335\321\076\145\155\107\372\144
\114\003\130\120\331\246\276\345\052\150\353\077\213\020\361\346
\273\042\006\050\232\240\244\230\151\157\066\264\324\015\016\014
\175\300\051\061\273\054\003\047\341\147\247\275\321\213\056\266
\207\304\012\340\011\013\202\241\346\117\130\235\373\330\370\141
\341\312\227\304\270\267\120\071\314\061\116\375\055\034\032\366
\107\343\154\354\033\005\350\177\027\065\020\204\332\063\347\064
\346\265\244\353\304\042\007\112\366\233\130\330\017\234\100\373
\261\213\137\242\375\231\352\242\173\131\142\321\136\256\321\112
\162\030\053\113\066\071\162\007\232\132\360\143\072\317\033\371
\317\335\110\163\131\160\344
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "SITHS Root CA v1"
Issuer: CN=SITHS Root CA v1,O=Inera AB,C=SE
Serial Number:90:66:61:a8:62:3d:65:44:77:04:3f:71:9a:c3:97:0c
Subject: CN=SITHS Root CA v1,O=Inera AB,C=SE

Not Valid Before: Thu Mar 29 07:54:49 2012
Not Valid After: Mon Mar 29 07:54:49 2032
Fingerprint (MD5): 7f:7b:02:6c:68:9f:32:03:c7:af:04:9d:ec:23:df:f3
Fingerprint (SHA1): 58:5f:78:75:be:e7:43:3e:b0:79:ea:ab:7d:05:bb:0f:7a:f2:bc:cc
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SITHS Root CA v1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\130\137\170\165\276\347\103\076\260\171\352\253\175\005\273\017
\172\362\274\314
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\177\173\002\154\150\237\062\003\307\257\004\235\354\043\337\363
END
CKA_ISSUER MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\123\105\061
\021\060\017\006\003\125\004\012\014\010\111\156\145\162\141\040
\101\102\061\031\060\027\006\003\125\004\003\014\020\123\111\124
\110\123\040\122\157\157\164\040\103\101\040\166\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\220\146\141\250\142\075\145\104\167\004\077\161\232
\303\227\014
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Macao Post eSignTrust Root Certification Authority (G02)"
Issuer: CN=Macao Post eSignTrust Root Certification Authority (G02),O=Macao Post,C=MO
Serial Number:52:ac:be:07:11:49:97:bb:1f:bf:87:1b:25:17:bf:a4
Subject: CN=Macao Post eSignTrust Root Certification Authority (G02),O=Macao Post,C=MO
Not Valid Before: Wed Jan 06 00:00:00 2010
Not Valid After: Sun Jan 05 23:59:59 2020
Fingerprint (MD5): a1:2d:ed:eb:8a:3b:88:2f:fa:38:f3:86:a4:fb:bc:f2
Fingerprint (SHA1): 06:14:31:51:e0:2b:45:dd:ba:dd:5d:8e:56:53:0d:aa:e3:28:cf:90
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Macao Post eSignTrust Root Certification Authority (G02)"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\115\117\061

\023\060\021\006\003\125\004\012\023\012\115\141\143\141\157\040
\120\157\163\164\061\101\060\077\006\003\125\004\003\023\070\115
\141\143\141\157\040\120\157\163\164\040\145\123\151\147\156\124
\162\165\163\164\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\040\050\107\060\062\051
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\115\117\061
\023\060\021\006\003\125\004\012\023\012\115\141\143\141\157\040
\120\157\163\164\061\101\060\077\006\003\125\004\003\023\070\115
\141\143\141\157\040\120\157\163\164\040\145\123\151\147\156\124
\162\165\163\164\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\040\050\107\060\062\051
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\122\254\276\007\021\111\227\273\037\277\207\033\045\027
\277\244
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\226\060\202\003\176\240\003\002\001\002\002\020\122
\254\276\007\021\111\227\273\037\277\207\033\045\027\277\244\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\145
\061\013\060\011\006\003\125\004\006\023\002\115\117\061\023\060
\021\006\003\125\004\012\023\012\115\141\143\141\157\040\120\157
\163\164\061\101\060\077\006\003\125\004\003\023\070\115\141\143
\141\157\040\120\157\163\164\040\145\123\151\147\156\124\162\165
\163\164\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040
\050\107\060\062\051\060\036\027\015\061\060\060\061\060\066\060
\060\060\060\060\060\132\027\015\062\060\060\061\060\065\062\063
\065\071\065\071\132\060\145\061\013\060\011\006\003\125\004\006
\023\002\115\117\061\023\060\021\006\003\125\004\012\023\012\115
\141\143\141\157\040\120\157\163\164\061\101\060\077\006\003\125
\004\003\023\070\115\141\143\141\157\040\120\157\163\164\040\145
\123\151\147\156\124\162\165\163\164\040\122\157\157\164\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\040\050\107\060\062\051\060\202\002\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\002\017\000\060\202\002\012\002\202\002\001\000\266\370\207
\247\164\314\135\043\136\256\253\226\334\327\044\050\035\244\024
\146\327\240\150\214\136\235\105\324\324\051\323\263\013\353\255
\026\352\235\122\021\311\244\341\160\345\335\276\016\034\021\167
\353\237\243\160\170\027\217\271\076\027\123\151\251\353\365\125
\371\225\227\351\337\071\166\236\037\122\027\264\033\000\022\320
\315\074\343\252\111\321\236\101\067\066\365\141\315\043\017\127

\261\366\115\323\333\015\102\123\002\210\364\360\251\206\213\127
\317\162\012\325\224\113\132\332\067\345\075\107\131\147\276\323
\216\126\325\127\071\320\047\333\237\111\117\250\026\124\277\170
\137\317\034\235\136\241\013\214\203\003\263\014\024\311\132\251
\273\377\306\256\131\317\365\145\037\043\211\001\123\212\325\133
\027\235\233\377\230\121\017\103\111\367\252\054\355\345\351\206
\072\063\120\163\334\122\245\153\143\204\351\023\242\174\307\167
\032\363\252\251\015\013\116\116\035\104\303\162\073\231\131\347
\101\042\073\054\124\136\022\061\226\150\101\031\325\355\165\247
\271\127\133\021\366\232\244\111\057\142\363\013\230\121\033\263
\063\102\322\314\324\141\031\303\323\334\233\373\223\262\142\315
\066\373\214\351\032\156\032\261\071\044\216\135\331\076\073\206
\174\210\346\267\047\003\370\225\121\260\277\120\067\376\370\116
\023\001\033\047\055\233\222\320\162\127\327\243\232\126\350\153
\243\367\125\336\100\135\342\010\037\134\273\121\246\236\264\335
\016\246\032\131\142\147\206\163\020\225\235\225\315\272\277\330
\234\052\016\213\166\231\223\324\113\260\350\124\077\015\330\212
\371\200\317\101\375\001\172\105\174\175\326\075\116\371\142\117
\101\045\174\252\155\130\126\033\007\264\163\252\037\021\037\074
\272\123\043\340\355\112\315\226\211\334\110\320\115\142\313\223
\007\366\240\256\123\027\174\137\134\007\034\005\114\253\114\152
\252\302\017\240\031\153\171\171\302\174\263\251\375\075\373\314
\174\161\305\273\276\045\155\041\247\373\326\276\140\363\265\251
\251\154\164\030\077\250\236\102\140\101\362\071\055\035\302\015
\163\362\340\261\266\112\032\030\275\167\151\031\327\322\172\261
\334\226\065\232\330\046\205\203\266\023\051\302\343\002\003\001
\000\001\243\102\060\100\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001
\377\004\004\003\002\001\006\060\035\006\003\125\035\016\004\026
\004\024\002\201\267\266\146\370\222\105\155\302\161\322\237\354
\057\323\272\037\271\377\060\015\006\011\052\206\110\206\367\015
\001\001\005\005\000\003\202\002\001\000\130\123\213\276\317\101
\262\117\266\325\336\112\150\315\145\317\306\100\212\254\113\232
\133\143\155\275\361\077\131\120\102\320\337\232\343\137\126\221
\263\133\233\331\105\006\103\357\223\033\375\063\167\035\006\124
\070\110\361\124\214\072\123\153\073\161\065\011\166\145\351\127
\017\103\366\221\232\336\020\273\272\150\222\052\045\313\147\104
\011\153\277\235\227\146\313\251\105\266\276\067\231\035\165\045
\276\075\074\143\154\277\251\023\107\307\162\214\313\303\317\364
\366\207\005\231\211\027\250\064\040\361\337\241\047\147\323\247
\043\357\253\131\203\075\032\330\052\315\302\255\112\060\014\006
\072\040\213\244\370\332\106\067\103\056\264\211\035\204\163\212
\140\276\144\061\047\102\300\353\162\141\155\314\336\174\163\053
\350\277\071\102\136\171\221\354\200\033\252\066\166\116\041\350
\206\004\227\011\050\313\107\347\100\324\054\136\032\136\110\372
\256\307\351\004\352\107\044\233\276\361\107\236\325\325\172\321
\136\324\205\362\013\043\004\230\324\053\232\126\162\106\114\101
\232\063\360\222\264\277\101\324\275\233\260\263\361\365\023\326

\257\133\324\362\321\101\360\107\135\172\274\172\131\361\175\140
\150\224\016\112\117\201\222\042\252\037\304\074\276\034\072\072
\114\360\160\241\177\273\237\334\322\305\244\361\046\156\341\363
\046\251\160\373\361\211\226\142\025\134\131\240\265\043\372\226
\152\262\032\222\075\015\044\112\053\270\010\376\157\337\334\302
\356\226\377\316\277\173\270\371\204\357\101\073\344\115\271\207
\221\272\306\137\310\355\360\313\213\323\017\221\366\040\336\221
\230\306\347\110\144\321\316\123\022\356\304\025\155\334\200\120
\033\023\140\117\171\133\374\032\234\376\242\237\240\021\063\221
\311\113\155\072\146\226\055\323\070\370\331\231\201\264\104\046
\177\261\347\236\160\155\035\155\365\042\011\344\254\031\066\373
\047\005\330\172\233\331\274\236\033\332\031\067\330\361\335\025
\230\144\033\217\123\360\050\235\254\024\272\137\151\317\226\043
\356\126\254\231\315\072\217\325\136\031\346\142\023\072\137\353
\213\137\026\300\073\341\321\223\217\126\141\067\005\320\171\033
\375\250\274\017\171\322\263\346\323\146
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Macao Post eSignTrust Root Certification Authority (G02)"
Issuer: CN=Macao Post eSignTrust Root Certification Authority (G02),O=Macao Post,C=MO
Serial Number:52:ac:be:07:11:49:97:bb:1f:bf:87:1b:25:17:bf:a4
Subject: CN=Macao Post eSignTrust Root Certification Authority (G02),O=Macao Post,C=MO
Not Valid Before: Wed Jan 06 00:00:00 2010
Not Valid After: Sun Jan 05 23:59:59 2020
Fingerprint (MD5): a1:2d:ed:eb:8a:3b:88:2f:fa:38:f3:86:a4:fb:bc:f2
Fingerprint (SHA1): 06:14:31:51:e0:2b:45:dd:ba:dd:5d:8e:56:53:0d:aa:e3:28:cf:90
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Macao Post eSignTrust Root Certification Authority (G02)"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\006\024\061\121\340\053\105\335\272\335\135\216\126\123\015\252
\343\050\317\220
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\241\055\355\353\212\073\210\057\372\070\363\206\244\373\274\362
END
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\115\117\061
\023\060\021\006\003\125\004\012\023\012\115\141\143\141\157\040
\120\157\163\164\061\101\060\077\006\003\125\004\003\023\070\115
\141\143\141\157\040\120\157\163\164\040\145\123\151\147\156\124
\162\165\163\164\040\122\157\157\164\040\103\145\162\164\151\146

\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\040\050\107\060\062\051
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\122\254\276\007\021\111\227\273\037\277\207\033\045\027
\277\244
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Autoridade Certificadora Raiz Brasileira v2"
Issuer: CN=Autoridade Certificadora Raiz Brasileira v2,OU=Instituto Nacional de Tecnologia da Informacao - ITI,O=ICP-Brasil,C=BR
Serial Number: 1 (0x1)
Subject: CN=Autoridade Certificadora Raiz Brasileira v2,OU=Instituto Nacional de Tecnologia da Informacao - ITI,O=ICP-Brasil,C=BR
Not Valid Before: Mon Jun 21 19:04:57 2010
Not Valid After: Wed Jun 21 19:04:57 2023
Fingerprint (MD5): 00:11:ae:73:15:fb:2d:6d:88:d8:43:bd:b4:b6:4c:5f
Fingerprint (SHA1): a9:82:2e:6c:69:33:c6:3c:14:8c:2d:ca:a4:4a:5c:f1:aa:d2:c4:2e
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridade Certificadora Raiz Brasileira v2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\227\061\013\060\011\006\003\125\004\006\023\002\102\122
\061\023\060\021\006\003\125\004\012\023\012\111\103\120\055\102
\162\141\163\151\154\061\075\060\073\006\003\125\004\013\023\064
\111\156\163\164\151\164\165\164\157\040\116\141\143\151\157\156
\141\154\040\144\145\040\124\145\143\156\157\154\157\147\151\141
\040\144\141\040\111\156\146\157\162\155\141\143\141\157\040\055
\040\111\124\111\061\064\060\062\006\003\125\004\003\023\053\101
\165\164\157\162\151\144\141\144\145\040\103\145\162\164\151\146
\151\143\141\144\157\162\141\040\122\141\151\172\040\102\162\141
\163\151\154\145\151\162\141\040\166\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\227\061\013\060\011\006\003\125\004\006\023\002\102\122
\061\023\060\021\006\003\125\004\012\023\012\111\103\120\055\102
\162\141\163\151\154\061\075\060\073\006\003\125\004\013\023\064
\111\156\163\164\151\164\165\164\157\040\116\141\143\151\157\156
\141\154\040\144\145\040\124\145\143\156\157\154\157\147\151\141

\040\144\141\040\111\156\146\157\162\155\141\143\141\157\040\055
\040\111\124\111\061\064\060\062\006\003\125\004\003\023\053\101
\165\164\157\162\151\144\141\144\145\040\103\145\162\164\151\146
\151\143\141\144\157\162\141\040\122\141\151\172\040\102\162\141
\163\151\154\145\151\162\141\040\166\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\241\060\202\004\211\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\015\005\000\060
\201\227\061\013\060\011\006\003\125\004\006\023\002\102\122\061
\023\060\021\006\003\125\004\012\023\012\111\103\120\055\102\162
\141\163\151\154\061\075\060\073\006\003\125\004\013\023\064\111
\156\163\164\151\164\165\164\157\040\116\141\143\151\157\156\141
\154\040\144\145\040\124\145\143\156\157\154\157\147\151\141\040
\144\141\040\111\156\146\157\162\155\141\143\141\157\040\055\040
\111\124\111\061\064\060\062\006\003\125\004\003\023\053\101\165
\164\157\162\151\144\141\144\145\040\103\145\162\164\151\146\151
\143\141\144\157\162\141\040\122\141\151\172\040\102\162\141\163
\151\154\145\151\162\141\040\166\062\060\036\027\015\061\060\060
\066\062\061\061\071\060\064\065\067\132\027\015\062\063\060\066
\062\061\061\071\060\064\065\067\132\060\201\227\061\013\060\011
\006\003\125\004\006\023\002\102\122\061\023\060\021\006\003\125
\004\012\023\012\111\103\120\055\102\162\141\163\151\154\061\075
\060\073\006\003\125\004\013\023\064\111\156\163\164\151\164\165
\164\157\040\116\141\143\151\157\156\141\154\040\144\145\040\124
\145\143\156\157\154\157\147\151\141\040\144\141\040\111\156\146
\157\162\155\141\143\141\157\040\055\040\111\124\111\061\064\060
\062\006\003\125\004\003\023\053\101\165\164\157\162\151\144\141
\144\145\040\103\145\162\164\151\146\151\143\141\144\157\162\141
\040\122\141\151\172\040\102\162\141\163\151\154\145\151\162\141
\040\166\062\060\202\002\042\060\015\006\011\052\206\110\206\367
\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012\002
\202\002\001\000\272\106\244\016\335\347\100\362\265\240\174\122
\225\127\105\374\155\204\363\206\001\311\205\003\255\230\253\322
\362\136\005\231\311\273\157\142\147\375\167\104\271\003\007\074
\322\033\000\142\324\160\054\102\203\171\146\253\231\126\256\201
\274\152\111\275\363\164\017\142\267\353\133\007\146\224\102\044
\235\106\254\232\102\030\060\360\044\250\121\101\352\253\225\361
\250\053\002\170\151\265\051\047\136\234\056\163\306\376\043\245
\343\246\316\375\154\033\153\000\124\353\000\255\117\072\114\074
\347\012\210\133\332\136\232\013\126\344\265\124\070\035\362\012
\223\144\116\303\101\222\123\040\052\317\374\164\156\324\333\063
\070\142\344\376\216\114\130\034\367\217\052\115\377\305\222\331
\011\122\275\317\160\000\235\151\232\063\152\210\207\105\041\231
\026\121\015\064\337\202\275\264\151\250\174\174\324\335\323\362

\025\134\113\305\130\020\352\205\031\313\066\042\130\052\162\014
\232\226\336\312\317\010\121\141\277\264\005\051\006\053\206\220
\376\351\115\303\004\005\107\313\317\166\331\177\161\246\207\173
\025\100\344\063\200\170\007\035\244\362\216\233\100\073\311\162
\120\337\151\276\360\054\226\037\220\265\325\256\164\343\145\264
\214\032\351\152\033\373\162\134\305\202\124\352\340\123\007\304
\314\022\351\367\336\327\057\324\110\057\107\077\046\141\004\261
\022\232\063\153\265\206\113\023\053\320\206\235\107\355\151\373
\374\204\022\146\370\126\345\016\212\154\166\304\153\032\172\302
\240\132\022\321\043\211\130\001\174\010\130\332\025\216\025\331
\176\175\067\266\244\105\365\003\205\314\107\372\213\171\105\270
\146\142\063\323\046\112\336\034\351\324\177\346\155\046\271\074
\175\315\017\050\012\051\017\233\335\143\253\271\246\107\032\204
\327\205\244\003\145\006\004\113\122\215\203\064\102\177\061\216
\021\056\346\263\147\225\100\176\227\172\100\000\371\021\154\203
\070\130\255\003\063\133\246\304\301\305\260\254\015\251\006\360
\246\151\001\064\266\351\370\224\110\117\076\246\165\011\354\112
\305\073\340\311\136\260\062\377\237\151\131\317\074\060\157\015
\316\047\127\354\132\033\150\377\354\117\157\170\062\076\171\305
\264\135\225\177\002\003\001\000\001\243\201\365\060\201\362\060
\116\006\003\125\035\040\004\107\060\105\060\103\006\005\140\114
\001\001\000\060\072\060\070\006\010\053\006\001\005\005\007\002
\001\026\054\150\164\164\160\072\057\057\141\143\162\141\151\172
\056\151\143\160\142\162\141\163\151\154\056\147\157\166\056\142
\162\057\104\120\103\141\143\162\141\151\172\056\160\144\146\060
\077\006\003\125\035\037\004\070\060\066\060\064\240\062\240\060
\206\056\150\164\164\160\072\057\057\141\143\162\141\151\172\056
\151\143\160\142\162\141\163\151\154\056\147\157\166\056\142\162
\057\114\103\122\141\143\162\141\151\172\166\062\056\143\162\154
\060\037\006\003\125\035\043\004\030\060\026\200\024\014\071\040
\072\267\001\037\313\327\050\175\101\240\307\372\112\255\062\044
\276\060\035\006\003\125\035\016\004\026\004\024\014\071\040\072
\267\001\037\313\327\050\175\101\240\307\372\112\255\062\044\276
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\006\060\015\006\011\052\206\110\206\367\015\001\001\015\005\000
\003\202\002\001\000\131\232\024\151\030\155\175\051\103\160\175
\166\233\141\337\167\216\032\166\344\251\326\313\166\244\026\014
\114\224\022\306\220\321\201\003\305\255\006\331\055\104\274\262
\011\166\011\200\071\147\000\030\064\155\006\012\346\265\020\131
\110\272\165\140\374\077\216\035\030\125\160\053\236\113\225\254
\211\253\012\167\044\173\141\304\307\221\046\216\106\023\121\067
\266\214\047\012\323\015\360\232\053\042\203\203\263\275\203\065
\255\233\074\274\170\203\051\065\141\066\370\021\161\063\040\124
\143\123\105\001\330\023\132\204\073\327\146\023\044\267\304\106
\305\042\330\163\044\356\034\023\027\226\310\045\350\033\036\317
\337\205\120\155\074\352\367\120\236\033\227\336\247\153\333\326
\163\322\317\174\120\300\260\214\345\123\022\172\206\071\254\065

\133\147\307\352\324\373\321\302\135\352\016\227\163\230\256\051
\277\344\072\363\004\066\120\054\355\336\036\333\205\350\035\204
\011\356\363\246\203\063\133\157\107\171\117\110\265\374\270\046
\023\253\252\263\364\141\021\373\105\147\363\035\076\156\376\052
\113\046\104\032\237\261\242\340\074\332\340\344\005\072\170\254
\373\250\241\115\277\135\054\167\051\220\315\023\035\357\006\050
\330\267\024\363\133\310\311\236\247\176\061\022\212\170\142\304
\321\005\274\006\002\143\004\053\015\211\335\344\134\133\062\200
\104\324\102\354\052\363\362\100\207\061\325\076\342\012\062\014
\024\215\325\162\155\013\346\375\215\344\250\363\005\215\165\027
\167\233\012\271\372\220\222\231\145\210\062\147\103\005\216\055
\013\025\273\065\361\141\350\331\147\167\355\026\345\350\001\055
\153\064\077\216\203\263\367\352\017\112\036\076\065\204\235\214
\200\064\077\251\225\350\303\255\304\315\236\312\024\026\054\031
\236\344\066\213\271\271\243\102\045\007\076\303\345\325\150\117
\240\146\034\246\263\266\163\034\220\032\077\100\271\032\126\102
\160\207\377\157\055\017\021\375\036\377\367\205\060\025\016\343
\027\061\356\047\225\314\311\351\231\036\227\307\155\133\007\265
\005\152\075\362\105\337\272\202\171\044\160\056\233\202\037\146
\251\245\155\047\314\366\052\242\321\137\205\157\340\106\235\252
\322\245\116\125\016
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Autoridade Certificadora Raiz Brasileira v2"
Issuer: CN=Autoridade Certificadora Raiz Brasileira v2,OU=Instituto Nacional de Tecnologia da Informacao - ITI,O=ICP-Brasil,C=BR
Serial Number: 1 (0x1)
Subject: CN=Autoridade Certificadora Raiz Brasileira v2,OU=Instituto Nacional de Tecnologia da Informacao - ITI,O=ICP-Brasil,C=BR
Not Valid Before: Mon Jun 21 19:04:57 2010
Not Valid After: Wed Jun 21 19:04:57 2023
Fingerprint (MD5): 00:11:ae:73:15:fb:2d:6d:88:d8:43:bd:b4:b6:4c:5f
Fingerprint (SHA1): a9:82:2e:6c:69:33:c6:3c:14:8c:2d:ca:a4:4a:5c:f1:aa:d2:c4:2e
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridade Certificadora Raiz Brasileira v2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\251\202\056\154\151\063\306\074\024\214\055\312\244\112\134\361
\252\322\304\056
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\000\021\256\163\025\373\055\155\210\330\103\275\264\266\114\137

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END
CKA_ISSUER MULTILINE_OCTAL
\060\201\227\061\013\060\011\006\003\125\004\006\023\002\102\122
\061\023\060\021\006\003\125\004\012\023\012\111\103\120\055\102
\162\141\163\151\154\061\075\060\073\006\003\125\004\013\023\064
\111\156\163\164\151\164\165\164\157\040\116\141\143\151\157\156
\141\154\040\144\145\040\124\145\143\156\157\154\157\147\151\141
\040\144\141\040\111\156\146\157\162\155\141\143\141\157\040\055
\040\111\124\111\061\064\060\062\006\003\125\004\003\023\053\101
\165\164\157\162\151\144\141\144\145\040\103\145\162\164\151\146
\151\143\141\144\157\162\141\040\122\141\151\172\040\102\162\141
\163\151\154\145\151\162\141\040\166\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Swisscom Root CA 2"
# Issuer: CN=Swisscom Root CA 2,OU=Digital Certificate Services,O=Swisscom,C=ch
# Serial Number:1e:9e:28:e8:48:f2:e5:ef:c3:7c:4a:1e:5a:18:67:b6
# Subject: CN=Swisscom Root CA 2,OU=Digital Certificate Services,O=Swisscom,C=ch
# Not Valid Before: Fri Jun 24 08:38:14 2011
# Not Valid After: Wed Jun 25 07:38:14 2031
# Fingerprint (MD5): 5b:04:69:ec:a5:83:94:63:18:a7:86:d0:e4:f2:6e:19
# Fingerprint (SHA1): 77:47:4f:c6:30:e4:0f:4c:47:64:3f:84:ba:b8:c6:95:4a:8a:41:ec
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Swisscom Root CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\144\061\013\060\011\006\003\125\004\006\023\002\143\150\061
\021\060\017\006\003\125\004\012\023\010\123\167\151\163\163\143
\157\155\061\045\060\043\006\003\125\004\013\023\034\104\151\147
\151\164\141\154\040\103\145\162\164\151\146\151\143\141\164\145
\040\123\145\162\166\151\143\145\163\061\033\060\031\006\003\125
\004\003\023\022\123\167\151\163\163\143\157\155\040\122\157\157
\164\040\103\101\040\062
END
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CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Swisscom Root CA 2"
Issuer: CN=Swisscom Root CA 2,OU=Digital Certificate Services,O=Swisscom,C=ch
Serial Number:1e:9e:28:e8:48:f2:e5:ef:c3:7c:4a:1e:5a:18:67:b6
Subject: CN=Swisscom Root CA 2,OU=Digital Certificate Services,O=Swisscom,C=ch
Not Valid Before: Fri Jun 24 08:38:14 2011
Not Valid After: Wed Jun 25 07:38:14 2031
Fingerprint (MD5): 5b:04:69:ec:a5:83:94:63:18:a7:86:d0:e4:f2:6e:19
Fingerprint (SHA1): 77:47:4f:c6:30:e4:0f:4c:47:64:3f:84:ba:b8:c6:95:4a:8a:41:ec
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Swisscom Root CA 2"
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\112\212\101\354
END
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END
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CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "IGC/A AC racine Etat francais"
Issuer: CN=IGC/A AC racine Etat francais,OU=0002 130007669,O=ANSSI,C=FR
Serial Number:11:21:85:0c:b3:9c:6a:32:fa:be:67:1b:81:3f:a4:86:15:8f
Subject: CN=IGC/A AC racine Etat francais,OU=0002 130007669,O=ANSSI,C=FR
Not Valid Before: Fri Jul 08 09:00:00 2011
Not Valid After: Sat Apr 15 09:00:00 2028
Fingerprint (MD5): f4:f5:81:33:de:2e:15:b5:70:3a:57:3c:26:0a:72:8d
Fingerprint (SHA1): 1a:c9:2f:09:ea:89:e2:8b:12:6d:fa:c5:1e:3a:f7:ea:90:95:a3:ee
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IGC/A AC racine Etat francais"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
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\311\175\005\123\003\267\156\240\363\171\327\321\032\117\320\270
\154\210\166\301\200\230\125\205\123\141\317\104\127\114\336\116
\015\026\121\361\075\211\201\256\175\013\255\212\265\356\126\304
\306\314\021\013\030\324\374\375\171\373\376\004\021\234\043\357
\166\162\307\215\276\271\036\170\166\362\232\034\255\143\102\307
\330\355\155\141\220\302\041\052\017\010\024\055\040\103\045\174
\030\265\267\240\244\175\271\245\014\031\376\311\253\075\347\133
\336\257\372\127\031\047\205\347\043\016\364\315\015\031\060\076
\212\344\306\021\036\360\264\175\151\143\233\016\226\206\220\340
\373\003\157\133\131\076\035\041\365\127\147\126\046\362\207\031
\007\204\272\054\220\072\303\050\244\005\132\040\315\251\133\225
\165\071\177\042\120\012\116\177\027\367\263\254\323\007\246\276
\055\122\012\060\114\170\020
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "IGC/A AC racine Etat francais"
Issuer: CN=IGC/A AC racine Etat francais,OU=0002 130007669,O=ANSSI,C=FR

```
# Serial Number:11:21:85:0c:b3:9c:6a:32:fa:be:67:1b:81:3f:a4:86:15:8f
# Subject: CN=IGC/A AC racine Etat francais,OU=0002 130007669,O=ANSSI,C=FR
# Not Valid Before: Fri Jul 08 09:00:00 2011
# Not Valid After: Sat Apr 15 09:00:00 2028
# Fingerprint (MD5): f4:f5:81:33:de:2e:15:b5:70:3a:57:3c:26:0a:72:8d
# Fingerprint (SHA1): 1a:c9:2f:09:ea:89:e2:8b:12:6d:fa:c5:1e:3a:f7:ea:90:95:a3:ee
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IGC/A AC racine Etat francais"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\032\311\057\011\352\211\342\213\022\155\372\305\036\072\367\352
\220\225\243\356
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\364\365\201\063\336\056\025\265\160\072\127\074\046\012\162\215
END
CKA_ISSUER MULTILINE_OCTAL
\060\136\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\016\060\014\006\003\125\004\012\023\005\101\116\123\123\111\061
\027\060\025\006\003\125\004\013\023\016\060\060\060\062\040\061
\063\060\060\060\067\066\066\071\061\046\060\044\006\003\125\004
\003\023\035\111\107\103\057\101\040\101\103\040\162\141\143\151
\156\145\040\105\164\141\164\040\146\162\141\156\143\141\151\163
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\041\205\014\263\234\152\062\372\276\147\033\201\077
\244\206\025\217
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "PersonalID Trustworthy RootCA 2011"
# Issuer: CN=PersonalID Trustworthy RootCA 2011,OU=Certificate Services,O=PersonalID Ltd.,C=IL
# Serial Number:58:cb:f9:64:96:71:74:95:40:f4:ad:08:ac:64:e4:e3
# Subject: CN=PersonalID Trustworthy RootCA 2011,OU=Certificate Services,O=PersonalID Ltd.,C=IL
# Not Valid Before: Thu Sep 01 08:35:21 2011
# Not Valid After: Sun Sep 01 08:45:16 2041
# Fingerprint (MD5): 20:3c:23:dc:f6:7a:97:14:0e:5f:48:b4:7d:ad:ac:c8
# Fingerprint (SHA1): 43:94:ce:31:26:ff:1a:22:4c:dd:4d:ee:b4:f4:ec:1d:a3:68:ef:6a
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

CKA_LABEL UTF8 "PersonalID Trustworthy RootCA 2011"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\163\061\013\060\011\006\003\125\004\006\023\002\111\114\061
\030\060\026\006\003\125\004\012\014\017\120\145\162\163\157\156
\141\154\111\104\040\114\164\144\056\061\035\060\033\006\003\125
\004\013\014\024\103\145\162\164\151\146\151\143\141\164\145\040
\123\145\162\166\151\143\145\163\061\053\060\051\006\003\125\004
\003\014\042\120\145\162\163\157\156\141\154\111\104\040\124\162
\165\163\164\167\157\162\164\150\171\040\122\157\157\164\103\101
\040\062\060\061\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\163\061\013\060\011\006\003\125\004\006\023\002\111\114\061
\030\060\026\006\003\125\004\012\014\017\120\145\162\163\157\156
\141\154\111\104\040\114\164\144\056\061\035\060\033\006\003\125
\004\013\014\024\103\145\162\164\151\146\151\143\141\164\145\040
\123\145\162\166\151\143\145\163\061\053\060\051\006\003\125\004
\003\014\042\120\145\162\163\157\156\141\154\111\104\040\124\162
\165\163\164\167\157\162\164\150\171\040\122\157\157\164\103\101
\040\062\060\061\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\130\313\371\144\226\161\164\225\100\364\255\010\254\144
\344\343
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\062\060\202\004\032\240\003\002\001\002\002\020\130
\313\371\144\226\161\164\225\100\364\255\010\254\144\344\343\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\163
\061\013\060\011\006\003\125\004\006\023\002\111\114\061\030\060
\026\006\003\125\004\012\014\017\120\145\162\163\157\156\141\154
\111\104\040\114\164\144\056\061\035\060\033\006\003\125\004\013
\014\024\103\145\162\164\151\146\151\143\141\164\145\040\123\145
\162\166\151\143\145\163\061\053\060\051\006\003\125\004\003\014
\042\120\145\162\163\157\156\141\154\111\104\040\124\162\165\163
\164\167\157\162\164\150\171\040\122\157\157\164\103\101\040\062
\060\061\061\060\036\027\015\061\061\060\071\060\061\060\070\063
\065\062\061\132\027\015\064\061\060\071\060\061\060\070\064\065
\061\066\132\060\163\061\013\060\011\006\003\125\004\006\023\002
\111\114\061\030\060\026\006\003\125\004\012\014\017\120\145\162
\163\157\156\141\154\111\104\040\114\164\144\056\061\035\060\033
\006\003\125\004\013\014\024\103\145\162\164\151\146\151\143\141
\164\145\040\123\145\162\166\151\143\145\163\061\053\060\051\006
\003\125\004\003\014\042\120\145\162\163\157\156\141\154\111\104
\040\124\162\165\163\164\167\157\162\164\150\171\040\122\157\157
\164\103\101\040\062\060\061\061\060\202\002\042\060\015\006\011

\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000
\060\202\002\012\002\202\002\001\000\260\225\214\140\376\005\016
\152\063\355\367\213\343\362\325\362\174\323\126\102\124\367\053
\362\210\245\365\347\267\154\207\001\053\151\276\005\111\104\330
\333\041\172\052\327\212\061\241\041\020\236\323\342\156\143\202
\205\124\204\115\050\046\033\342\023\367\121\373\057\353\022\325
\075\071\214\144\237\244\023\207\303\330\311\372\051\043\216\011
\217\111\106\304\324\311\127\130\151\237\027\317\163\164\245\356
\312\030\271\307\301\060\315\117\072\065\010\123\370\354\032\373
\157\060\355\366\237\011\360\360\320\304\216\073\171\116\056\205
\042\134\324\175\160\321\377\222\272\037\324\125\123\147\272\050
\130\055\367\023\214\374\245\013\234\070\246\106\034\016\350\252
\170\053\365\012\060\323\073\140\206\310\177\245\233\242\143\001
\057\320\323\022\045\205\176\226\315\061\261\344\233\216\352\054
\223\244\142\250\067\325\366\217\337\041\232\323\076\035\341\120
\021\160\124\233\004\027\235\115\253\141\316\217\052\054\357\171
\346\167\105\131\326\150\325\266\113\232\253\221\113\016\141\027
\271\130\302\236\146\241\217\211\301\103\040\102\260\177\200\234
\112\052\267\172\040\101\306\115\304\222\157\172\176\135\133\271
\243\311\116\312\345\120\145\274\000\000\171\107\360\105\004\260
\042\373\016\230\252\141\035\117\140\143\162\217\265\260\004\224
\177\020\254\031\077\047\142\151\326\034\127\335\071\117\070\352
\000\232\375\050\235\100\046\300\100\235\304\240\111\310\101\265
\147\075\240\113\224\051\022\251\130\047\131\004\177\217\321\214
\176\014\263\010\027\064\254\217\271\134\275\351\160\241\176\302
\245\145\141\351\266\020\120\217\334\344\164\141\361\137\162\173
\177\134\057\055\174\253\326\103\061\020\034\131\167\312\110\112
\030\242\144\013\000\131\147\307\324\312\303\233\032\010\122\025
\276\327\305\306\267\057\346\142\234\246\307\330\336\360\025\373
\256\071\125\055\157\120\165\056\375\240\007\264\137\172\176\004
\213\366\231\242\165\355\311\073\325\075\317\147\122\075\076\357
\037\160\232\030\074\247\040\006\111\014\261\145\254\063\273\324
\177\107\151\210\366\212\201\356\235\324\264\307\057\003\350\256
\032\311\126\005\147\151\250\310\201\002\003\001\000\001\243\201
\301\060\201\276\060\013\006\003\125\035\017\004\004\003\002\001
\206\060\022\006\003\125\035\023\001\001\377\004\010\060\006\001
\001\377\002\001\002\060\035\006\003\125\035\016\004\026\004\024
\307\177\013\310\057\127\216\051\362\366\001\213\353\047\245\126
\216\375\244\036\060\020\006\011\053\006\001\004\001\202\067\025
\001\004\003\002\001\000\060\152\006\003\125\035\040\004\143\060
\141\060\137\006\010\053\006\001\004\001\341\030\001\060\123\060
\121\006\010\053\006\001\005\005\007\002\001\026\105\150\164\164
\160\072\057\057\167\167\167\056\151\143\141\056\143\157\056\151
\154\057\162\145\160\157\163\151\164\157\162\171\057\143\160\163
\057\120\145\162\163\157\156\141\154\111\104\137\120\162\141\143
\164\151\143\145\137\123\164\141\164\145\155\145\156\164\056\160
\144\146\060\015\006\011\052\206\110\206\367\015\001\001\013\005
\000\003\202\002\001\000\102\145\213\044\372\222\025\064\032\034

\372\310\316\115\172\057\173\337\320\003\101\034\324\244\341\373
\350\314\255\011\335\035\244\010\331\250\040\175\227\237\014\111
\361\245\302\346\325\167\106\227\176\244\220\242\171\351\275\032
\136\064\202\146\011\122\374\120\321\217\320\253\034\242\377\377
\075\356\376\043\370\277\043\263\315\276\341\367\317\344\330\022
\343\224\310\116\314\327\173\260\067\233\167\352\355\134\201\310
\314\217\316\071\343\344\145\135\336\202\330\217\043\151\341\121
\257\137\267\117\220\151\244\231\145\123\272\346\375\257\170\147
\224\112\310\303\177\214\002\117\112\346\207\230\366\070\267\110
\370\155\050\177\367\306\154\045\124\375\056\326\352\332\006\342
\261\375\007\150\360\257\200\214\264\302\351\164\025\244\032\277
\271\312\103\133\022\347\205\107\136\122\003\360\221\340\351\120
\161\324\041\002\054\173\206\221\160\066\306\234\266\164\371\052
\125\367\041\373\157\240\006\135\327\060\022\362\121\361\311\070
\066\217\310\146\141\101\331\307\113\202\150\122\243\365\211\014
\025\274\116\052\225\254\061\151\247\033\342\324\327\110\364\221
\365\003\174\171\026\076\054\015\151\341\212\067\036\237\174\030
\125\101\057\137\347\244\162\233\125\363\343\001\260\002\245\204
\022\152\100\246\253\344\241\254\353\003\331\274\137\044\126\047
\255\040\340\146\065\105\075\107\011\360\005\261\157\161\176\100
\260\320\025\136\053\254\122\201\250\373\203\365\054\127\104\206
\064\344\024\152\343\317\175\232\167\330\154\110\134\313\232\341
\246\373\277\021\242\006\345\037\161\275\064\265\317\275\304\102
\026\305\051\370\324\300\114\212\262\336\305\224\202\206\233\314
\340\251\006\104\061\044\044\115\372\355\341\102\045\146\242\301
\327\200\027\357\172\225\145\103\076\146\323\005\361\001\344\102
\126\104\000\170\153\235\066\040\373\145\377\100\134\350\150\065
\037\341\046\240\202\003\166\003\313\160\106\021\044\256\337\057
\140\375\361\047\000\003\275\113\047\333\274\234\227\067\121\053
\345\170\264\301\066\220\020\214\377\075\000\324\272\110\237\110
\312\207\061\232\355\304\232\123\322\335\163\024\077\011\202\241
\135\145\116\115\046\342
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "PersonalID Trustworthy RootCA 2011"
Issuer: CN=PersonalID Trustworthy RootCA 2011,OU=Certificate Services,O=PersonalID Ltd.,C=IL
Serial Number:58:cb:f9:64:96:71:74:95:40:f4:ad:08:ac:64:e4:e3
Subject: CN=PersonalID Trustworthy RootCA 2011,OU=Certificate Services,O=PersonalID Ltd.,C=IL
Not Valid Before: Thu Sep 01 08:35:21 2011
Not Valid After: Sun Sep 01 08:45:16 2041
Fingerprint (MD5): 20:3c:23:dc:f6:7a:97:14:0e:5f:48:b4:7d:ad:ac:c8
Fingerprint (SHA1): 43:94:ce:31:26:ff:1a:22:4c:dd:4d:ee:b4:f4:ec:1d:a3:68:ef:6a
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "PersonalID Trustworthy RootCA 2011"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\103\224\316\061\046\377\032\042\114\335\115\356\264\364\354\035
\243\150\357\152
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\040\074\043\334\366\172\227\024\016\137\110\264\175\255\254\310
END
CKA_ISSUER MULTILINE_OCTAL
\060\163\061\013\060\011\006\003\125\004\006\023\002\111\114\061
\030\060\026\006\003\125\004\012\014\017\120\145\162\163\157\156
\141\154\111\104\040\114\164\144\056\061\035\060\033\006\003\125
\004\013\014\024\103\145\162\164\151\146\151\143\141\164\145\040
\123\145\162\166\151\143\145\163\061\053\060\051\006\003\125\004
\003\014\042\120\145\162\163\157\156\141\154\111\104\040\124\162
\165\163\164\167\157\162\164\150\171\040\122\157\157\164\103\101
\040\062\060\061\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\130\313\371\144\226\161\164\225\100\364\255\010\254\144
\344\343
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Swedish Government Root Authority v1"
Issuer: CN=Swedish Government Root Authority v1,O=Swedish Social Insurance Agency,C=SE
Serial Number:3e:bd:43:96:a3:65:42:a8:49:b6:91:a8:12:51:26:cf
Subject: CN=Swedish Government Root Authority v1,O=Swedish Social Insurance Agency,C=SE
Not Valid Before: Wed Apr 14 13:33:23 2010
Not Valid After: Sun Apr 14 13:43:19 2030
Fingerprint (MD5): 8f:a9:d7:45:06:57:d0:80:00:cf:96:04:55:8e:64:c4
Fingerprint (SHA1): 11:e1:9b:bc:74:7b:1a:ed:0d:b8:33:c9:4c:ac:6c:3f:85:bd:eb:db
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Swedish Government Root Authority v1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\146\061\013\060\011\006\003\125\004\006\023\002\123\105\061
\050\060\046\006\003\125\004\012\023\037\123\167\145\144\151\163
\150\040\123\157\143\151\141\154\040\111\156\163\165\162\141\156

\143\145\040\101\147\145\156\143\171\061\055\060\053\006\003\125
\004\003\023\044\123\167\145\144\151\163\150\040\107\157\166\145
\162\156\155\145\156\164\040\122\157\157\164\040\101\165\164\150
\157\162\151\164\171\040\166\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\146\061\013\060\011\006\003\125\004\006\023\002\123\105\061
\050\060\046\006\003\125\004\012\023\037\123\167\145\144\151\163
\150\040\123\157\143\151\141\154\040\111\156\163\165\162\141\156
\143\145\040\101\147\145\156\143\171\061\055\060\053\006\003\125
\004\003\023\044\123\167\145\144\151\163\150\040\107\157\166\145
\162\156\155\145\156\164\040\122\157\157\164\040\101\165\164\150
\157\162\151\164\171\040\166\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\076\275\103\226\243\145\102\250\111\266\221\250\022\121
\046\317
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\255\060\202\002\225\240\003\002\001\002\002\020\076
\275\103\226\243\145\102\250\111\266\221\250\022\121\046\317\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\146
\061\013\060\011\006\003\125\004\006\023\002\123\105\061\050\060
\046\006\003\125\004\012\023\037\123\167\145\144\151\163\150\040
\123\157\143\151\141\154\040\111\156\163\165\162\141\156\143\145
\040\101\147\145\156\143\171\061\055\060\053\006\003\125\004\003
\023\044\123\167\145\144\151\163\150\040\107\157\166\145\162\156
\155\145\156\164\040\122\157\157\164\040\101\165\164\150\157\162
\151\164\171\040\166\061\060\036\027\015\061\060\060\064\061\064
\061\063\063\063\062\063\132\027\015\063\060\060\064\061\064\061
\063\064\063\061\071\132\060\146\061\013\060\011\006\003\125\004
\006\023\002\123\105\061\050\060\046\006\003\125\004\012\023\037
\123\167\145\144\151\163\150\040\123\157\143\151\141\154\040\111
\156\163\165\162\141\156\143\145\040\101\147\145\156\143\171\061
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\301\132\040\142\310\227\102\141\302\103\160\333\130\154\165\340
\013\266\062\212\340\244\055\105\276\347\133\073\213\172\261\375
\005\314\063\177\237\360\133\355\162\216\315\063\323\311\022\213
\300\223\100\243\217\206\156\337\215\210\363\346\152\114\157\245
\106\372\150\246\133\020\226\203\056\127\240\117\217\025\131\066

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\256\145\277\127\107\214\304\343\344\002\215\363\334\063\333\357
\047\107\370\354\313\362\074\347\011\363\371\345\371\213\307\351
\132\340\055\223\253\252\051\066\057\176\306\310\366\360\346\200
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\012\145\033\062\043\171\142\167\254\042\177\033\244\135\172\260
\347\254\330\340\166\003\057\175\357\153\367\067\357\243\242\144
\034\314\327\175\332\202\242\316\265\001\115\370\011\054\065\002
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\001\377\004\004\003\002\001\006\060\022\006\003\125\035\023\001
\001\377\004\010\060\006\001\001\377\002\001\001\060\035\006\003
\125\035\016\004\026\004\024\135\007\272\367\215\135\111\360\134
\225\220\011\363\136\352\254\320\366\103\266\060\020\006\011\053
\006\001\004\001\202\067\025\001\004\003\002\001\000\060\015\006
\011\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001
\000\060\337\244\234\350\224\163\051\153\256\037\014\160\272\114
\376\144\175\254\117\257\111\017\162\213\244\262\000\110\151\116
\325\362\204\063\013\215\163\333\316\151\016\267\142\277\261\221
\344\152\341\022\111\174\106\107\233\204\330\230\051\054\007\203
\044\360\036\353\161\235\221\150\172\367\133\103\255\202\004\017
\103\337\046\275\202\135\266\221\274\142\276\103\132\243\124\157
\176\121\061\055\371\067\234\266\037\250\373\347\021\233\026\013
\356\141\022\124\325\245\204\331\377\237\222\047\235\123\367\266
\013\063\027\306\353\262\352\202\362\366\103\166\034\274\061\223
\060\235\351\110\142\016\076\103\073\254\051\314\224\340\053\154
\232\277\027\336\361\312\360\346\035\205\322\017\253\275\207\235
\202\115\206\060\065\264\011\323\100\250\273\267\042\376\170\250
\333\321\120\151\200\063\140\055\175\217\204\271\354\207\322\230
\351\013\314\333\171\030\161\023\130\240\371\153\326\316\344\106
\114\000\167\212\057\134\235\256\211\005\353\352\034\340\232\143
\371\273\106\243\271\112\275\235\032\175\312\204\315\376\220\361
\272
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Swedish Government Root Authority v1"
Issuer: CN=Swedish Government Root Authority v1,O=Swedish Social Insurance Agency,C=SE
Serial Number:3e:bd:43:96:a3:65:42:a8:49:b6:91:a8:12:51:26:cf
Subject: CN=Swedish Government Root Authority v1,O=Swedish Social Insurance Agency,C=SE
Not Valid Before: Wed Apr 14 13:33:23 2010
Not Valid After: Sun Apr 14 13:43:19 2030
Fingerprint (MD5): 8f:a9:d7:45:06:57:d0:80:00:cf:96:04:55:8e:64:c4
Fingerprint (SHA1): 11:e1:9b:bc:74:7b:1a:ed:0d:b8:33:c9:4c:ac:6c:3f:85:bd:eb:db
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Swedish Government Root Authority v1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\021\341\233\274\164\173\032\355\015\270\063\311\114\254\154\077
\205\275\353\333
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\217\251\327\105\006\127\320\200\000\317\226\004\125\216\144\304
END
CKA_ISSUER MULTILINE_OCTAL
\060\146\061\013\060\011\006\003\125\004\006\023\002\123\105\061
\050\060\046\006\003\125\004\012\023\037\123\167\145\144\151\163
\150\040\123\157\143\151\141\154\040\111\156\163\165\162\141\156
\143\145\040\101\147\145\156\143\171\061\055\060\053\006\003\125
\004\003\023\044\123\167\145\144\151\163\150\040\107\157\166\145
\162\156\155\145\156\164\040\122\157\157\164\040\101\165\164\150
\157\162\151\164\171\040\166\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\076\275\103\226\243\145\102\250\111\266\221\250\022\121
\046\317
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Swiss Government Root CA II"
Issuer: CN=Swiss Government Root CA II,OU=Certification Authorities,OU=Services,O=The Federal Authorities of the Swiss Confederation,C=CH
Serial Number:0e:9f:17:99:a5:b1:3d:9c:cb:ec:06:eb:a3:f0:0e:69
Subject: CN=Swiss Government Root CA II,OU=Certification Authorities,OU=Services,O=The Federal Authorities of the Swiss Confederation,C=CH
Not Valid Before: Wed Feb 16 09:00:00 2011
Not Valid After: Fri Feb 16 08:59:59 2035
Fingerprint (MD5): 30:b0:e4:cf:bf:f5:89:dc:bf:52:2d:88:1c:cb:aa:b3
Fingerprint (SHA1): c7:f7:cb:e2:02:36:66:f9:86:02:5d:4a:3e:31:3f:29:eb:0c:5b:38
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Swiss Government Root CA II"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\247\061\013\060\011\006\003\125\004\006\023\002\103\110
\061\073\060\071\006\003\125\004\012\023\062\124\150\145\040\106

\145\144\145\162\141\154\040\101\165\164\150\157\162\151\164\151
\145\163\040\157\146\040\164\150\145\040\123\167\151\163\163\040
\103\157\156\146\145\144\145\162\141\164\151\157\156\061\021\060
\017\006\003\125\004\013\023\010\123\145\162\166\151\143\145\163
\061\042\060\040\006\003\125\004\013\023\031\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\151\145\163\061\044\060\042\006\003\125\004\003\023\033\123
\167\151\163\163\040\107\157\166\145\162\156\155\145\156\164\040
\122\157\157\164\040\103\101\040\111\111
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\247\061\013\060\011\006\003\125\004\006\023\002\103\110
\061\073\060\071\006\003\125\004\012\023\062\124\150\145\040\106
\145\144\145\162\141\154\040\101\165\164\150\157\162\151\164\151
\145\163\040\157\146\040\164\150\145\040\123\167\151\163\163\040
\103\157\156\146\145\144\145\162\141\164\151\157\156\061\021\060
\017\006\003\125\004\013\023\010\123\145\162\166\151\143\145\163
\061\042\060\040\006\003\125\004\013\023\031\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\151\145\163\061\044\060\042\006\003\125\004\003\023\033\123
\167\151\163\163\040\107\157\166\145\162\156\155\145\156\164\040
\122\157\157\164\040\103\101\040\111\111
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\016\237\027\231\245\261\075\234\313\354\006\353\243\360
\016\151
END
CKA_VALUE MULTILINE_OCTAL
\060\202\010\070\060\202\006\040\240\003\002\001\002\002\020\016
\237\027\231\245\261\075\234\313\354\006\353\243\360\016\151\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\201
\247\061\013\060\011\006\003\125\004\006\023\002\103\110\061\073
\060\071\006\003\125\004\012\023\062\124\150\145\040\106\145\144
\145\162\141\154\040\101\165\164\150\157\162\151\164\151\145\163
\040\157\146\040\164\150\145\040\123\167\151\163\163\040\103\157
\156\146\145\144\145\162\141\164\151\157\156\061\021\060\017\006
\003\125\004\013\023\010\123\145\162\166\151\143\145\163\061\042
\060\040\006\003\125\004\013\023\031\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\151
\145\163\061\044\060\042\006\003\125\004\003\023\033\123\167\151
\163\163\040\107\157\166\145\162\156\155\145\156\164\040\122\157
\157\164\040\103\101\040\111\111\060\036\027\015\061\061\060\062
\061\066\060\071\060\060\060\060\132\027\015\063\065\060\062\061
\066\060\070\065\071\065\071\132\060\201\247\061\013\060\011\006
\003\125\004\006\023\002\103\110\061\073\060\071\006\003\125\004
\012\023\062\124\150\145\040\106\145\144\145\162\141\154\040\101
\165\164\150\157\162\151\164\151\145\163\040\157\146\040\164\150

\145\040\123\167\151\163\163\040\103\157\156\146\145\144\145\162
\141\164\151\157\156\061\021\060\017\006\003\125\004\013\023\010
\123\145\162\166\151\143\145\163\061\042\060\040\006\003\125\004
\013\023\031\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\151\145\163\061\044\060\042
\006\003\125\004\003\023\033\123\167\151\163\163\040\107\157\166
\145\162\156\155\145\156\164\040\122\157\157\164\040\103\101\040
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\220\113\314\045\167\310\360\327\151\056\221\150\127\041\262\262
\007\041\063\356\114\244\067\045\230\114\264\106\062\116\326\371
\153\213\121\212\357\054\067\362\230\325\365\324\264\267\347\000
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\335\003\172\310\372\340\204\346\331\275\116\176\372\156\117\166
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\373\151\116\357\217\122\034\317\365\054\132\154\354\376\202\233
\333\174\071\253\165\043\176\070\220\117\224\216\055\142\130\236
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\061\271\330\053\120\112\200\022\211\327\054\120\200\346\147\057
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\332\163\251\035\211\362\304\131\346\207\346\126\053\016\225\002
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\050\170\106\141\257\101\044\244\363\372\004\216\361\212\031\242
\221\163\342\167\217\264\247\371\234\377\156\121\354\275\037\226
\023\350\143\221\136\207\150\157\353\330\174\056\020\117\120\030
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\226\313\317\072\260\130\010\356\034\102\311\206\167\102\156\077
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\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
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\160\072\057\057\167\167\167\056\160\153\151\056\141\144\155\151
\156\056\143\150\057\143\160\163\057\103\120\123\137\062\137\061

\066\137\067\065\066\137\061\137\061\067\137\063\137\062\061\137
\061\056\160\144\146\060\072\006\010\053\006\001\005\005\007\002
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\040\123\167\151\163\163\040\107\157\166\145\162\156\155\145\156
\164\040\122\157\157\164\040\103\101\040\111\111\040\103\120\123
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\201\201\240\177\240\175\206\173\154\144\141\160\072\057\057\141
\144\155\151\156\144\151\162\056\141\144\155\151\156\056\143\150
\072\063\070\071\057\143\156\075\123\167\151\163\163\045\062\060
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\145\162\164\151\146\151\143\141\164\151\157\156\045\062\060\101
\165\164\150\157\162\151\164\151\145\163\054\157\165\075\123\145
\162\166\151\143\145\163\054\157\075\101\144\155\151\156\054\143
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\001\006\060\201\343\006\003\125\035\043\004\201\333\060\201\330
\200\024\345\204\157\211\151\075\166\000\027\177\301\253\275\256
\137\301\175\272\341\142\241\201\255\244\201\252\060\201\247\061
\013\060\011\006\003\125\004\006\023\002\103\110\061\073\060\071
\006\003\125\004\012\023\062\124\150\145\040\106\145\144\145\162
\141\154\040\101\165\164\150\157\162\151\164\151\145\163\040\157
\146\040\164\150\145\040\123\167\151\163\163\040\103\157\156\146
\145\144\145\162\141\164\151\157\156\061\021\060\017\006\003\125
\004\013\023\010\123\145\162\166\151\143\145\163\061\042\060\040
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\164\151\157\156\040\101\165\164\150\157\162\151\164\151\145\163
\061\044\060\042\006\003\125\004\003\023\033\123\167\151\163\163
\040\107\157\166\145\162\156\155\145\156\164\040\122\157\157\164
\040\103\101\040\111\111\202\020\016\237\027\231\245\261\075\234
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\367\015\001\001\013\005\000\003\202\002\001\000\203\067\127\165
\311\070\120\277\101\006\226\160\302\331\307\327\260\132\000\315
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\117\076\124\366\312\074\263\304\114\213\307\076\364\331\304\142
\335\307\125\236\321\371\322\104\347\036\117\317\350\356\053\034
\250\001\360\063\007\373\341\073\024\323\317\120\221\136\330\352
\102\306\171\130\205\252\373\334\333\160\312\225\371\364\016\142
\002\160\151\104\055\150\117\321\160\352\050\122\146\267\161\336
\045\350\241\247\157\260\241\046\307\327\312\040\144\334\300\163
\074\020\242\024\036\364\255\301\076\024\220\071\066\143\210\157
\050\340\140\245\221\367\142\344\232\317\322\265\161\236\135\073
\366\231\054\355\221\072\010\234\264\204\205\111\343\341\272\246
\266\150\263\266\266\117\113\134\123\012\127\154\241\007\222\366
\142\236\250\372\212\326\363\153\247\017\262\053\146\275\257\102
\107\010\117\350\327\174\237\206\017\372\132\203\276\055\157\000
\004\265\166\207\026\257\335\117\072\226\264\064\127\267\342\377

\101\377\336\102\034\146\305\205\353\302\162\037\270\034\116\356
\027\362\142\357\012\004\254\233\253\241\362\356\356\242\100\044
\034\107\336\102\213\030\264\251\127\263\117\074\142\062\034\255
\154\104\255\274\325\034\143\070\075\311\063\246\373\274\050\067
\104\106\343\172\142\372\200\110\065\342\236\033\210\031\114\263
\101\375\356\167\340\131\200\032\141\036\065\244\101\172\263\301
\215\104\351\305\041\131\351\254\323\104\312\166\205\066\024\106
\012\036\026\064\246\304\064\167\303\202\070\110\041\002\376\022
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\365\013\175\004\055\204\015\302\331\114\053\227\361\325\124\367
\217\263\012\342\275\130\074\231\362\257\071\033\220\371\073\347
\267\105\347\132\152\175\301\237\024\157\060\127\230\031\240\007
\103\353\356\321\010\206\327\111\234\022\012\000\073\017\247\101
\261\112\253\220\263\324\275\011\347\210\017\236\044\016\053\373
\141\075\125\231\323\130\344\270\307\175\364\025\115\145\016\030
\171\101\311\273\351\232\301\131\030\104\064\142\325\350\070\173
\312\205\030\230\206\171\315\175\272\107\333\225
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Swiss Government Root CA II"
Issuer: CN=Swiss Government Root CA II,OU=Certification Authorities,OU=Services,O=The Federal Authorities of the Swiss Confederation,C=CH
Serial Number:0e:9f:17:99:a5:b1:3d:9c:cb:ec:06:eb:a3:f0:0e:69
Subject: CN=Swiss Government Root CA II,OU=Certification Authorities,OU=Services,O=The Federal Authorities of the Swiss Confederation,C=CH
Not Valid Before: Wed Feb 16 09:00:00 2011
Not Valid After: Fri Feb 16 08:59:59 2035
Fingerprint (MD5): 30:b0:e4:cf:bf:f5:89:dc:bf:52:2d:88:1c:cb:aa:b3
Fingerprint (SHA1): c7:f7:cb:e2:02:36:66:f9:86:02:5d:4a:3e:31:3f:29:eb:0c:5b:38
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Swiss Government Root CA II"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\307\367\313\342\002\066\146\371\206\002\135\112\076\061\077\051
\353\014\133\070
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\060\260\344\317\277\365\211\334\277\122\055\210\034\313\252\263
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\247\061\013\060\011\006\003\125\004\006\023\002\103\110
\061\073\060\071\006\003\125\004\012\023\062\124\150\145\040\106

\145\144\145\162\141\154\040\101\165\164\150\157\162\151\164\151
\145\163\040\157\146\040\164\150\145\040\123\167\151\163\163\040
\103\157\156\146\145\144\145\162\141\164\151\157\156\061\021\060
\017\006\003\125\004\013\023\010\123\145\162\166\151\143\145\163
\061\042\060\040\006\003\125\004\013\023\031\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\151\145\163\061\044\060\042\006\003\125\004\003\023\033\123
\167\151\163\163\040\107\157\166\145\162\156\155\145\156\164\040
\122\157\157\164\040\103\101\040\111\111
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\016\237\027\231\245\261\075\234\313\354\006\353\243\360
\016\151
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Swiss Government Root CA I"
Issuer: CN=Swiss Government Root CA I,OU=Certification Authorities,OU=Services,O=The Federal Authorities of the Swiss Confederation,C=CH
Serial Number:fd:75:04:8d:7a:60:86:93:69:4c:aa:00:3c:65:d3:3d
Subject: CN=Swiss Government Root CA I,OU=Certification Authorities,OU=Services,O=The Federal Authorities of the Swiss Confederation,C=CH
Not Valid Before: Tue Feb 15 09:00:00 2011
Not Valid After: Thu Feb 15 08:59:59 2035
Fingerprint (MD5): c7:c9:da:9b:76:e1:ac:86:6b:34:bd:03:3f:e3:cf:d2
Fingerprint (SHA1): a1:58:51:87:15:65:86:ce:f9:c4:54:e2:2a:b1:5c:58:74:56:07:b4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Swiss Government Root CA I"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\246\061\013\060\011\006\003\125\004\006\023\002\103\110
\061\073\060\071\006\003\125\004\012\023\062\124\150\145\040\106
\145\144\145\162\141\154\040\101\165\164\150\157\162\151\164\151
\145\163\040\157\146\040\164\150\145\040\123\167\151\163\163\040
\103\157\156\146\145\144\145\162\141\164\151\157\156\061\021\060
\017\006\003\125\004\013\023\010\123\145\162\166\151\143\145\163
\061\042\060\040\006\003\125\004\013\023\031\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\151\145\163\061\043\060\041\006\003\125\004\003\023\032\123
\167\151\163\163\040\107\157\166\145\162\156\155\145\156\164\040
\122\157\157\164\040\103\101\040\111

END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\246\061\013\060\011\006\003\125\004\006\023\002\103\110
\061\073\060\071\006\003\125\004\012\023\062\124\150\145\040\106
\145\144\145\162\141\154\040\101\165\164\150\157\162\151\164\151
\145\163\040\157\146\040\164\150\145\040\123\167\151\163\163\040
\103\157\156\146\145\144\145\162\141\164\151\157\156\061\021\060
\017\006\003\125\004\013\023\010\123\145\162\166\151\143\145\163
\061\042\060\040\006\003\125\004\013\023\031\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\151\145\163\061\043\060\041\006\003\125\004\003\023\032\123
\167\151\163\163\040\107\157\166\145\162\156\155\145\156\164\040
\122\157\157\164\040\103\101\040\111
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\375\165\004\215\172\140\206\223\151\114\252\000\074
\145\323\075
END
CKA_VALUE MULTILINE_OCTAL
\060\202\010\064\060\202\006\034\240\003\002\001\002\002\021\000
\375\165\004\215\172\140\206\223\151\114\252\000\074\145\323\075
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\201\246\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\073\060\071\006\003\125\004\012\023\062\124\150\145\040\106\145
\144\145\162\141\154\040\101\165\164\150\157\162\151\164\151\145
\163\040\157\146\040\164\150\145\040\123\167\151\163\163\040\103
\157\156\146\145\144\145\162\141\164\151\157\156\061\021\060\017
\006\003\125\004\013\023\010\123\145\162\166\151\143\145\163\061
\042\060\040\006\003\125\004\013\023\031\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\151\145\163\061\043\060\041\006\003\125\004\003\023\032\123\167
\151\163\163\040\107\157\166\145\162\156\155\145\156\164\040\122
\157\157\164\040\103\101\040\111\060\036\027\015\061\061\060\062
\061\065\060\071\060\060\060\060\132\027\015\063\065\060\062\061
\065\060\070\065\071\065\071\132\060\201\246\061\013\060\011\006
\003\125\004\006\023\002\103\110\061\073\060\071\006\003\125\004
\012\023\062\124\150\145\040\106\145\144\145\162\141\154\040\101
\165\164\150\157\162\151\164\151\145\163\040\157\146\040\164\150
\145\040\123\167\151\163\163\040\103\157\156\146\145\144\145\162
\141\164\151\157\156\061\021\060\017\006\003\125\004\013\023\010
\123\145\162\166\151\143\145\163\061\042\060\040\006\003\125\004
\013\023\031\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\151\145\163\061\043\060\041
\006\003\125\004\003\023\032\123\167\151\163\163\040\107\157\166
\145\162\156\155\145\156\164\040\122\157\157\164\040\103\101\040
\111\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002

\001\000\310\016\162\364\001\057\206\173\013\302\143\260\215\150
\355\037\075\336\271\203\233\134\241\135\272\017\066\047\021\004
\255\006\124\040\267\036\240\346\316\276\360\231\151\162\031\065
\144\146\061\215\054\275\216\102\012\237\306\312\251\220\054\332
\274\205\060\003\331\062\226\226\360\276\240\042\015\044\154\324
\306\177\132\114\121\044\055\124\162\010\174\063\351\314\050\307
\146\145\043\151\153\225\264\353\276\343\207\347\143\327\344\373
\007\255\022\222\353\347\344\012\103\262\251\337\307\220\274\046
\133\221\371\243\267\207\234\224\271\020\215\210\305\130\134\062
\274\026\354\016\127\117\376\247\223\170\217\340\305\071\273\007
\210\140\301\124\145\353\207\276\237\061\227\161\074\372\213\310
\203\154\122\226\340\254\300\357\313\151\010\225\133\340\340\273
\257\047\244\302\027\361\121\237\204\166\141\330\044\342\376\141
\155\144\065\111\352\071\304\041\142\275\314\342\002\377\110\153
\070\257\151\307\271\222\055\202\021\215\275\013\211\205\052\352
\267\264\262\315\113\353\321\372\252\360\340\114\011\074\115\337
\366\061\035\206\060\250\101\210\127\160\054\047\121\336\317\213
\116\077\002\362\120\245\027\340\147\033\162\014\101\061\037\001
\242\226\076\074\333\002\266\235\224\346\002\116\363\360\031\202
\262\010\043\023\353\221\315\121\323\252\106\302\163\230\230\077
\272\303\356\232\374\372\315\257\162\012\067\023\217\371\240\120
\263\352\373\077\054\274\372\143\125\065\364\322\274\270\161\322
\221\353\351\312\312\134\354\121\146\250\236\131\005\042\057\243
\032\333\117\340\105\142\043\074\135\125\373\060\225\053\064\242
\317\247\264\113\300\063\311\064\121\235\323\263\053\337\305\352
\054\054\307\337\104\037\266\215\271\376\363\134\315\067\057\260
\154\234\112\010\275\350\365\326\372\160\345\151\062\067\134\137
\013\313\077\344\210\002\314\312\263\170\057\175\277\110\263\041
\260\037\210\171\233\132\212\161\330\041\204\051\017\112\004\061
\052\275\015\041\104\316\164\235\046\323\111\035\370\206\250\345
\022\167\305\300\163\014\120\203\152\220\153\241\312\370\320\225
\331\065\206\307\021\243\073\024\307\313\206\130\126\015\373\203
\367\001\002\003\001\000\001\243\202\002\131\060\202\002\125\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\201\233\006\003\125\035\040\004\201\223\060\201\220\060\201
\215\006\010\140\205\164\001\021\003\001\000\060\201\200\060\103
\006\010\053\006\001\005\005\007\002\001\026\067\150\164\164\160
\072\057\057\167\167\167\056\160\153\151\056\141\144\155\151\156
\056\143\150\057\143\160\163\057\103\120\123\137\062\137\061\066
\137\067\065\066\137\061\137\061\067\137\063\137\061\137\060\056
\160\144\146\060\071\006\010\053\006\001\005\005\007\002\002\060
\055\032\053\124\150\151\163\040\151\163\040\164\150\145\040\123
\167\151\163\163\040\107\157\166\145\162\156\155\145\156\164\040
\122\157\157\164\040\103\101\040\111\040\103\120\123\056\060\201
\216\006\003\125\035\037\004\201\206\060\201\203\060\201\200\240
\176\240\174\206\172\154\144\141\160\072\057\057\141\144\155\151
\156\144\151\162\056\141\144\155\151\156\056\143\150\072\063\070
\071\057\143\156\075\123\167\151\163\163\045\062\060\107\157\166

\145\162\156\155\145\156\164\045\062\060\122\157\157\164\045\062
\060\103\101\045\062\060\111\054\157\165\075\103\145\162\164\151
\146\151\143\141\164\151\157\156\045\062\060\101\165\164\150\157
\162\151\164\151\145\163\054\157\165\075\123\145\162\166\151\143
\145\163\054\157\075\101\144\155\151\156\054\143\075\103\110\060
\035\006\003\125\035\016\004\026\004\024\265\033\203\273\073\117
\262\322\373\345\003\216\324\141\135\321\032\216\260\242\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\201
\343\006\003\125\035\043\004\201\333\060\201\330\200\024\265\033
\203\273\073\117\262\322\373\345\003\216\324\141\135\321\032\216
\260\242\241\201\254\244\201\251\060\201\246\061\013\060\011\006
\003\125\004\006\023\002\103\110\061\073\060\071\006\003\125\004
\012\023\062\124\150\145\040\106\145\144\145\162\141\154\040\101
\165\164\150\157\162\151\164\151\145\163\040\157\146\040\164\150
\145\040\123\167\151\163\163\040\103\157\156\146\145\144\145\162
\141\164\151\157\156\061\021\060\017\006\003\125\004\013\023\010
\123\145\162\166\151\143\145\163\061\042\060\040\006\003\125\004
\013\023\031\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\151\145\163\061\043\060\041
\006\003\125\004\003\023\032\123\167\151\163\163\040\107\157\166
\145\162\156\155\145\156\164\040\122\157\157\164\040\103\101\040
\111\202\021\000\375\165\004\215\172\140\206\223\151\114\252\000
\074\145\323\075\060\015\006\011\052\206\110\206\367\015\001\001
\013\005\000\003\202\002\001\000\045\332\337\170\260\046\334\237
\231\353\063\234\311\105\272\134\143\122\215\156\003\163\252\164
\110\305\015\013\322\027\014\054\013\322\306\045\203\324\124\315
\007\201\124\057\147\166\045\247\351\327\177\226\107\167\244\035
\233\105\377\361\330\366\236\107\016\164\214\023\304\362\276\326
\007\050\030\074\230\165\301\333\353\222\210\046\346\006\144\216
\371\322\375\342\231\065\201\321\330\165\027\265\163\352\335\350
\030\042\225\026\031\012\131\052\042\334\206\132\103\117\045\150
\066\251\330\223\000\217\136\305\303\141\206\360\322\024\011\225
\121\304\176\330\122\356\260\215\212\210\161\245\327\050\247\364
\334\006\130\045\136\304\125\030\010\225\164\174\270\001\347\116
\330\326\366\174\040\103\110\015\243\340\336\124\304\250\137\000
\111\103\323\105\073\202\145\156\356\213\243\001\042\126\232\361
\316\051\345\014\304\153\355\347\116\370\261\125\201\255\161\377
\204\373\010\127\346\107\312\255\207\370\106\370\372\360\065\204
\355\264\330\210\227\042\167\244\217\026\310\074\147\321\341\156
\004\254\173\217\066\315\336\245\010\254\052\215\365\247\035\237
\307\303\221\041\102\243\206\201\271\052\330\261\351\070\035\124
\010\230\071\012\021\312\062\016\063\315\364\114\352\250\112\006
\351\030\076\101\306\317\240\366\340\053\153\040\216\247\040\002
\353\060\101\201\260\350\344\256\244\030\211\053\337\024\360\022
\051\155\170\372\115\104\373\262\064\345\257\363\216\065\367\303
\316\054\013\030\264\320\171\217\023\277\003\213\146\270\265\141
\324\254\016\375\170\075\011\255\265\322\054\117\126\101\231\210
\104\014\176\147\343\144\237\372\132\052\130\167\121\151\261\315

\054\232\247\064\020\005\164\372\156\105\143\313\213\122\255\107
\221\242\022\310\242\046\004\305\320\042\036\003\263\262\222\067
\124\127\375\211\203\165\003\155\055\073\263\361\244\242\020\174
\234\223\215\243\120\204\071\213\225\131\101\366\002\166\006\212
\274\016\220\347\331\072\353\255\046\136\127\123\321\157\310\165
\340\253\221\173\153\241\177\371\033\120\250\334\376\115\006\341
\025\212\244\020\353\036\006\317\124\110\025\226\050\266\043\037
\032\343\174\245\217\372\067\127
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Swiss Government Root CA I"
Issuer: CN=Swiss Government Root CA I,OU=Certification Authorities,OU=Services,O=The Federal Authorities of the Swiss Confederation,C=CH
Serial Number:fd:75:04:8d:7a:60:86:93:69:4c:aa:00:3c:65:d3:3d
Subject: CN=Swiss Government Root CA I,OU=Certification Authorities,OU=Services,O=The Federal Authorities of the Swiss Confederation,C=CH
Not Valid Before: Tue Feb 15 09:00:00 2011
Not Valid After: Thu Feb 15 08:59:59 2035
Fingerprint (MD5): c7:c9:da:9b:76:e1:ac:86:6b:34:bd:03:3f:e3:cf:d2
Fingerprint (SHA1): a1:58:51:87:15:65:86:ce:f9:c4:54:e2:2a:b1:5c:58:74:56:07:b4
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Swiss Government Root CA I"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\241\130\121\207\025\145\206\316\371\304\124\342\052\261\134\130
\164\126\007\264
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\307\311\332\233\166\341\254\206\153\064\275\003\077\343\317\322
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\246\061\013\060\011\006\003\125\004\006\023\002\103\110
\061\073\060\071\006\003\125\004\012\023\062\124\150\145\040\106
\145\144\145\162\141\154\040\101\165\164\150\157\162\151\164\151
\145\163\040\157\146\040\164\150\145\040\123\167\151\163\163\040
\103\157\156\146\145\144\145\162\141\164\151\157\156\061\021\060
\017\006\003\125\004\013\023\010\123\145\162\166\151\143\145\163
\061\042\060\040\006\003\125\004\013\023\031\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\151\145\163\061\043\060\041\006\003\125\004\003\023\032\123
\167\151\163\163\040\107\157\166\145\162\156\155\145\156\164\040
\122\157\157\164\040\103\101\040\111

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\375\165\004\215\172\140\206\223\151\114\252\000\074
\145\323\075
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "LuxTrust Global Root"
Issuer: CN=LuxTrust Global Root,O=LuxTrust s.a.,C=LU
Serial Number: 3000 (0xbb8)
Subject: CN=LuxTrust Global Root,O=LuxTrust s.a.,C=LU
Not Valid Before: Thu Mar 17 09:51:37 2011
Not Valid After: Wed Mar 17 09:51:37 2021
Fingerprint (MD5): 42:a5:21:7a:4c:af:c7:bf:fd:a7:f5:b2:10:4c:3e:be
Fingerprint (SHA1): c9:3c:34:ea:90:d9:13:0c:0f:03:00:4b:98:bd:8b:35:70:91:56:11
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "LuxTrust Global Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\114\125\061
\026\060\024\006\003\125\004\012\023\015\114\165\170\124\162\165
\163\164\040\163\056\141\056\061\035\060\033\006\003\125\004\003
\023\024\114\165\170\124\162\165\163\164\040\107\154\157\142\141
\154\040\122\157\157\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\114\125\061
\026\060\024\006\003\125\004\012\023\015\114\165\170\124\162\165
\163\164\040\163\056\141\056\061\035\060\033\006\003\125\004\003
\023\024\114\165\170\124\162\165\163\164\040\107\154\157\142\141
\154\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\013\270
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\144\060\202\002\114\240\003\002\001\002\002\002\013
\270\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000
\060\104\061\013\060\011\006\003\125\004\006\023\002\114\125\061
\026\060\024\006\003\125\004\012\023\015\114\165\170\124\162\165

\163\164\040\163\056\141\056\061\035\060\033\006\003\125\004\003
\023\024\114\165\170\124\162\165\163\164\040\107\154\157\142\141
\154\040\122\157\157\164\060\036\027\015\061\061\060\063\061\067
\060\071\065\061\063\067\132\027\015\062\061\060\063\061\067\060
\071\065\061\063\067\132\060\104\061\013\060\011\006\003\125\004
\006\023\002\114\125\061\026\060\024\006\003\125\004\012\023\015
\114\165\170\124\162\165\163\164\040\163\056\141\056\061\035\060
\033\006\003\125\004\003\023\024\114\165\170\124\162\165\163\164
\040\107\154\157\142\141\154\040\122\157\157\164\060\202\001\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\001\017\000\060\202\001\012\002\202\001\001\000\262\177\247
\100\360\042\312\014\366\353\261\361\313\016\225\127\100\165\257
\240\077\076\316\354\252\062\127\346\031\261\147\103\230\132\153
\174\263\270\372\170\234\252\246\204\262\140\033\200\101\316\143
\315\037\027\010\231\244\365\357\076\022\307\114\260\127\232\134
\170\100\170\374\105\215\332\221\147\334\072\121\271\155\163\346
\267\071\216\166\072\264\037\005\365\151\125\371\223\317\170\210
\112\276\252\233\327\173\107\133\106\004\114\202\026\246\065\366
\374\164\337\326\264\257\330\342\265\047\021\164\131\242\302\146
\054\150\012\341\230\210\210\074\212\005\165\024\343\270\256\363
\010\204\233\152\301\077\061\030\257\047\245\113\233\244\375\171
\061\336\230\075\016\141\312\207\230\301\370\212\060\234\372\076
\063\325\245\304\003\007\341\367\226\164\030\000\047\070\047\321
\053\252\252\341\101\105\213\157\361\045\302\334\242\227\225\307
\102\024\063\135\171\204\043\152\347\145\300\127\240\330\135\251
\143\001\347\260\344\213\350\370\305\143\270\345\154\164\220\075
\307\167\374\053\272\171\351\244\306\022\170\247\377\002\003\001
\000\001\243\140\060\136\060\014\006\003\125\035\023\004\005\060
\003\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\006\060\037\006\003\125\035\043\004\030\060\026\200
\024\027\025\205\211\011\057\044\207\157\077\035\033\344\362\226
\171\203\110\023\316\060\035\006\003\125\035\016\004\026\004\024
\027\025\205\211\011\057\044\207\157\077\035\033\344\362\226\171
\203\110\023\316\060\015\006\011\052\206\110\206\367\015\001\001
\013\005\000\003\202\001\001\000\132\360\034\320\324\120\317\101
\176\346\270\235\175\303\160\320\136\066\377\156\216\172\057\336
\110\021\325\064\056\074\267\105\302\124\045\247\341\301\036\067
\203\266\224\256\266\105\110\003\352\225\276\353\234\152\264\067
\134\037\056\323\153\202\201\103\133\012\077\021\125\143\254\372
\174\010\002\067\240\074\071\004\063\376\227\062\310\122\345\331
\045\115\260\306\356\150\037\160\252\163\316\127\003\334\175\012
\015\063\362\322\132\337\012\154\073\314\021\121\227\032\244\041
\242\205\065\002\327\200\042\322\204\262\370\300\252\150\277\325
\353\252\303\013\253\241\174\053\367\365\073\207\341\124\127\354
\005\044\357\171\102\116\363\213\150\237\344\156\313\202\231\311
\314\052\334\123\302\037\160\203\253\041\017\126\264\110\377\337
\007\042\263\214\371\035\246\004\337\055\003\066\271\335\157\376
\061\210\146\377\154\155\104\064\257\010\167\076\046\322\162\364

\273\107\126\223\074\230\143\341\063\273\231\043\222\265\203\171
\350\035\237\147\255\142\326\211\326\366\374\047\336\062\047\313
\204\332\167\205\041\241\022\041
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "LuxTrust Global Root"
Issuer: CN=LuxTrust Global Root,O=LuxTrust s.a.,C=LU
Serial Number: 3000 (0xbb8)
Subject: CN=LuxTrust Global Root,O=LuxTrust s.a.,C=LU
Not Valid Before: Thu Mar 17 09:51:37 2011
Not Valid After: Wed Mar 17 09:51:37 2021
Fingerprint (MD5): 42:a5:21:7a:4c:af:c7:bf:fd:a7:f5:b2:10:4c:3e:be
Fingerprint (SHA1): c9:3c:34:ea:90:d9:13:0c:0f:03:00:4b:98:bd:8b:35:70:91:56:11
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "LuxTrust Global Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\311\074\064\352\220\331\023\014\017\003\000\113\230\275\213\065
\160\221\126\021
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\102\245\041\172\114\257\307\277\375\247\365\262\020\114\076\276
END
CKA_ISSUER MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\114\125\061
\026\060\024\006\003\125\004\012\023\015\114\165\170\124\162\165
\163\164\040\163\056\141\056\061\035\060\033\006\003\125\004\003
\023\024\114\165\170\124\162\165\163\164\040\107\154\157\142\141
\154\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\013\270
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "AC1 RAIZ MTIN"
Issuer: C=ES,L=MADRID,O=MINISTERIO DE TRABAJO E INMIGRACION,OU=SUBDIRECCION
GENERAL DE PROCESO DE DATOS,OU=PRESTADOR DE SERVICIOS DE CERTIFICACION

MTIN,2.5.4.5=S2819001E,CN=AC1 RAIZ MTIN
Serial Number:05:0b:41:5e:82:7b
Subject: C=ES,L=MADRID,O=MINISTERIO DE TRABAJO E INMIGRACION,OU=SUBDIRECCION GENERAL DE PROCESO DE DATOS,OU=PRESTADOR DE SERVICIOS DE CERTIFICACION MTIN,2.5.4.5=S2819001E,CN=AC1 RAIZ MTIN
Not Valid Before: Thu Nov 05 16:17:45 2009
Not Valid After: Sun Nov 03 16:17:45 2019
Fingerprint (MD5): 27:13:d5:2c:70:06:3e:15:7b:d3:62:59:32:ea:01:05
Fingerprint (SHA1): 6a:d2:3b:9d:c4:8e:37:5f:85:9a:d9:ca:b5:85:32:5c:23:89:40:71
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC1 RAIZ MTIN"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\342\061\026\060\024\006\003\125\004\003\023\015\101\103
\061\040\122\101\111\132\040\115\124\111\116\061\022\060\020\006
\003\125\004\005\023\011\123\062\070\061\071\060\060\061\105\061
\065\060\063\006\003\125\004\013\023\054\120\122\105\123\124\101
\104\117\122\040\104\105\040\123\105\122\126\111\103\111\117\123
\040\104\105\040\103\105\122\124\111\106\111\103\101\103\111\117
\116\040\115\124\111\116\061\061\060\057\006\003\125\004\013\023
\050\123\125\102\104\111\122\105\103\103\111\117\116\040\107\105
\116\105\122\101\114\040\104\105\040\120\122\117\103\105\123\117
\040\104\105\040\104\101\124\117\123\061\054\060\052\006\003\125
\004\012\023\043\115\111\116\111\123\124\105\122\111\117\040\104
\105\040\124\122\101\102\101\112\117\040\105\040\111\116\115\111
\107\122\101\103\111\117\116\061\017\060\015\006\003\125\004\007
\023\006\115\101\104\122\111\104\061\013\060\011\006\003\125\004
\006\023\002\105\123
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\342\061\026\060\024\006\003\125\004\003\023\015\101\103
\061\040\122\101\111\132\040\115\124\111\116\061\022\060\020\006
\003\125\004\005\023\011\123\062\070\061\071\060\060\061\105\061
\065\060\063\006\003\125\004\013\023\054\120\122\105\123\124\101
\104\117\122\040\104\105\040\123\105\122\126\111\103\111\117\123
\040\104\105\040\103\105\122\124\111\106\111\103\101\103\111\117
\116\040\115\124\111\116\061\061\060\057\006\003\125\004\013\023
\050\123\125\102\104\111\122\105\103\103\111\117\116\040\107\105
\116\105\122\101\114\040\104\105\040\120\122\117\103\105\123\117
\040\104\105\040\104\101\124\117\123\061\054\060\052\006\003\125
\004\012\023\043\115\111\116\111\123\124\105\122\111\117\040\104
\105\040\124\122\101\102\101\112\117\040\105\040\111\116\115\111
\107\122\101\103\111\117\116\061\017\060\015\006\003\125\004\007
\023\006\115\101\104\122\111\104\061\013\060\011\006\003\125\004

\006\023\002\105\123
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\006\005\013\101\136\202\173
END
CKA_VALUE MULTILINE_OCTAL
\060\202\011\111\060\202\007\061\240\003\002\001\002\002\006\005
\013\101\136\202\173\060\015\006\011\052\206\110\206\367\015\001
\001\005\005\000\060\201\342\061\026\060\024\006\003\125\004\003
\023\015\101\103\061\040\122\101\111\132\040\115\124\111\116\061
\022\060\020\006\003\125\004\005\023\011\123\062\070\061\071\060
\060\061\105\061\065\060\063\006\003\125\004\013\023\054\120\122
\105\123\124\101\104\117\122\040\104\105\040\123\105\122\126\111
\103\111\117\123\040\104\105\040\103\105\122\124\111\106\111\103
\101\103\111\117\116\040\115\124\111\116\061\061\060\057\006\003
\125\004\013\023\050\123\125\102\104\111\122\105\103\103\111\117
\116\040\107\105\116\105\122\101\114\040\104\105\040\120\122\117
\103\105\123\117\040\104\105\040\104\101\124\117\123\061\054\060
\052\006\003\125\004\012\023\043\115\111\116\111\123\124\105\122
\111\117\040\104\105\040\124\122\101\102\101\112\117\040\105\040
\111\116\115\111\107\122\101\103\111\117\116\061\017\060\015\006
\003\125\004\007\023\006\115\101\104\122\111\104\061\013\060\011
\006\003\125\004\006\023\002\105\123\060\036\027\015\060\071\061
\061\060\065\061\066\061\067\064\065\132\027\015\061\071\061\061
\060\063\061\066\061\067\064\065\132\060\201\342\061\026\060\024
\006\003\125\004\003\023\015\101\103\061\040\122\101\111\132\040
\115\124\111\116\061\022\060\020\006\003\125\004\005\023\011\123
\062\070\061\071\060\060\061\105\061\065\060\063\006\003\125\004
\013\023\054\120\122\105\123\124\101\104\117\122\040\104\105\040
\123\105\122\126\111\103\111\117\123\040\104\105\040\103\105\122
\124\111\106\111\103\101\103\111\117\116\040\115\124\111\116\061
\061\060\057\006\003\125\004\013\023\050\123\125\102\104\111\122
\105\103\103\111\117\116\040\107\105\116\105\122\101\114\040\104
\105\040\120\122\117\103\105\123\117\040\104\105\040\104\101\124
\117\123\061\054\060\052\006\003\125\004\012\023\043\115\111\116
\111\123\124\105\122\111\117\040\104\105\040\124\122\101\102\101
\112\117\040\105\040\111\116\115\111\107\122\101\103\111\117\116
\061\017\060\015\006\003\125\004\007\023\006\115\101\104\122\111
\104\061\013\060\011\006\003\125\004\006\023\002\105\123\060\202
\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\334
\315\315\261\277\336\045\365\377\034\063\163\231\074\033\241\155
\365\240\304\175\233\070\146\215\011\337\003\154\127\065\264\023
\101\376\343\137\346\042\004\130\030\271\116\151\063\004\077\225
\307\331\116\377\063\064\247\062\100\062\223\127\376\201\257\045
\103\134\035\375\173\127\013\142\010\147\147\142\264\343\345\130
\045\200\346\252\206\142\100\347\117\020\141\051\111\046\253\115
\174\241\253\133\141\061\201\006\152\144\224\115\047\370\113\036

\321\325\103\342\327\261\155\366\366\377\264\160\125\366\010\231
\267\164\001\340\363\236\265\174\344\004\210\010\120\131\170\037
\032\224\333\357\310\311\211\323\067\270\363\075\206\321\031\313
\203\132\020\007\010\117\231\164\002\007\360\062\121\310\373\346
\320\074\046\166\175\162\176\254\166\067\301\212\165\040\134\100
\334\204\077\320\111\174\115\147\256\071\357\344\316\200\341\312
\235\346\055\253\056\346\022\225\332\371\373\337\343\342\214\075
\207\373\105\156\104\253\366\170\222\047\024\241\135\153\117\160
\173\127\163\357\371\135\250\017\165\237\357\021\140\031\204\260
\144\100\356\330\251\206\372\245\327\105\364\021\157\361\206\310
\064\133\210\110\316\272\335\315\233\335\210\343\001\066\350\254
\152\350\022\013\260\340\173\220\036\205\013\111\211\001\366\377
\202\337\130\145\042\203\110\326\007\320\034\146\374\146\050\072
\304\303\345\370\231\145\047\122\130\363\153\361\157\002\104\204
\165\320\244\343\150\123\141\162\357\366\057\251\263\254\365\364
\366\320\134\334\151\114\314\171\322\244\033\310\163\006\064\164
\264\361\152\312\051\050\307\064\204\133\043\330\272\000\214\314
\011\301\307\157\135\004\253\267\117\046\167\251\065\317\040\326
\263\377\061\151\320\064\373\045\354\150\226\012\242\335\203\037
\312\074\217\164\066\045\124\357\365\030\173\302\044\061\321\373
\202\004\256\004\202\326\365\002\051\161\341\222\161\164\216\333
\252\161\035\304\073\306\142\046\154\206\074\043\125\353\051\321
\037\253\312\036\143\347\263\163\264\247\270\052\072\366\037\373
\207\145\210\374\363\237\376\277\353\325\035\266\250\003\351\145
\203\031\214\340\030\355\027\330\034\015\075\234\212\130\177\002
\003\001\000\001\243\202\003\001\060\202\002\375\060\067\006\010
\053\006\001\005\005\007\001\001\004\053\060\051\060\047\006\010
\053\006\001\005\005\007\060\001\206\033\150\164\164\160\072\057
\057\143\141\056\155\164\151\156\056\145\163\057\155\164\151\156
\057\157\143\163\160\060\016\006\003\125\035\017\001\001\377\004
\004\003\002\001\006\060\033\006\003\125\035\021\004\024\060\022
\201\020\141\144\155\151\156\137\143\141\100\155\164\151\156\056
\145\163\060\033\006\003\125\035\022\004\024\060\022\201\020\141
\144\155\151\156\137\143\141\100\155\164\151\156\056\145\163\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\162\006\003\125\035\037\004\153\060\151\060\062\240\060\240
\056\206\054\150\164\164\160\072\057\057\143\141\056\155\164\151
\156\056\145\163\057\155\164\151\156\057\143\162\154\057\115\124
\111\116\101\165\164\157\162\151\144\141\144\122\141\151\172\060
\063\240\061\240\057\206\055\150\164\164\160\072\057\057\143\141
\062\056\155\164\151\156\056\145\163\057\155\164\151\156\057\143
\162\154\057\115\124\111\116\101\165\164\157\162\151\144\141\144
\122\141\151\172\060\201\271\006\003\125\035\040\004\201\261\060
\201\256\060\201\253\006\013\053\006\001\004\001\201\331\005\002
\004\001\060\201\233\060\060\006\010\053\006\001\005\005\007\002
\001\026\044\150\164\164\160\072\057\057\143\141\056\155\164\151
\156\056\145\163\057\155\164\151\156\057\104\120\103\171\120\157
\154\151\164\151\143\141\163\060\147\006\010\053\006\001\005\005

\007\002\002\060\133\032\131\103\145\162\164\151\146\151\143\141
\144\157\040\162\141\355\172\056\040\103\157\156\163\165\154\164
\145\040\154\141\163\040\143\157\156\144\151\143\151\157\156\145
\163\040\144\145\040\165\163\157\040\145\156\040\150\164\164\160
\072\057\057\143\141\056\155\164\151\156\056\145\163\057\155\164
\151\156\057\104\120\103\171\120\157\154\151\164\151\143\141\163
\060\035\006\003\125\035\016\004\026\004\024\063\103\030\263\304
\113\035\313\037\371\360\116\374\337\112\344\025\140\310\203\060
\202\001\026\006\003\125\035\043\004\202\001\015\060\202\001\011
\200\024\063\103\030\263\304\113\035\313\037\371\360\116\374\337
\112\344\025\140\310\203\241\201\350\244\201\345\060\201\342\061
\026\060\024\006\003\125\004\003\023\015\101\103\061\040\122\101
\111\132\040\115\124\111\116\061\022\060\020\006\003\125\004\005
\023\011\123\062\070\061\071\060\060\061\105\061\065\060\063\006
\003\125\004\013\023\054\120\122\105\123\124\101\104\117\122\040
\104\105\040\123\105\122\126\111\103\111\117\123\040\104\105\040
\103\105\122\124\111\106\111\103\101\103\111\117\116\040\115\124
\111\116\061\061\060\057\006\003\125\004\013\023\050\123\125\102
\104\111\122\105\103\103\111\117\116\040\107\105\116\105\122\101
\114\040\104\105\040\120\122\117\103\105\123\117\040\104\105\040
\104\101\124\117\123\061\054\060\052\006\003\125\004\012\023\043
\115\111\116\111\123\124\105\122\111\117\040\104\105\040\124\122
\101\102\101\112\117\040\105\040\111\116\115\111\107\122\101\103
\111\117\116\061\017\060\015\006\003\125\004\007\023\006\115\101
\104\122\111\104\061\013\060\011\006\003\125\004\006\023\002\105
\123\202\006\005\013\101\136\202\173\060\015\006\011\052\206\110
\206\367\015\001\001\005\005\000\003\202\002\001\000\231\343\252
\016\221\323\222\251\352\377\104\147\323\240\055\040\147\363\020
\017\032\067\167\135\122\106\346\152\270\367\210\363\202\303\052
\364\141\015\054\237\057\206\055\141\351\140\131\275\267\117\257
\223\011\034\371\063\167\100\234\241\174\145\334\136\220\225\251
\364\276\202\364\374\202\035\036\305\075\340\134\256\336\055\325
\143\166\253\361\354\044\247\040\370\036\350\317\161\202\003\335
\216\166\142\052\265\051\210\023\044\255\134\364\240\112\270\352
\023\212\126\215\152\057\150\071\162\206\130\304\244\253\165\174
\104\347\032\204\014\215\021\334\031\271\034\066\356\363\377\121
\233\263\103\310\045\176\347\016\110\243\344\117\006\055\025\036
\240\246\107\220\127\073\370\057\055\333\043\272\353\043\223\260
\270\122\033\140\034\324\031\260\155\170\217\113\235\247\013\050
\147\112\335\170\110\275\261\076\230\324\273\025\376\263\137\155
\035\165\310\036\317\017\256\112\032\135\207\054\006\164\154\012
\205\123\044\136\172\311\240\174\161\233\222\135\157\110\177\266
\130\161\262\114\246\032\011\043\064\120\161\025\153\107\333\373
\276\032\155\302\214\224\057\007\147\040\042\147\143\267\253\306
\031\234\226\015\142\352\010\244\032\160\357\251\271\357\116\305
\100\274\342\207\127\363\003\312\050\231\032\300\125\140\165\173
\143\276\144\077\226\116\113\217\375\055\246\164\300\337\111\072
\354\125\176\146\323\272\375\357\223\261\143\362\133\077\355\166

\241\331\323\014\376\056\157\012\246\123\113\357\321\363\107\255
\271\036\354\114\037\276\320\203\123\303\233\025\105\377\056\007
\321\332\152\222\105\346\154\127\133\044\056\121\151\311\060\317
\327\373\244\001\065\132\315\247\353\024\157\264\267\140\042\010
\305\161\310\223\342\276\045\137\365\014\372\130\121\075\173\310
\057\067\371\223\034\052\011\340\147\375\226\211\102\312\353\066
\260\326\033\246\120\017\132\235\166\377\244\117\306\354\015\304
\341\320\347\130\076\326\171\300\167\115\014\325\263\344\230\115
\335\106\056\122\260\342\017\015\102\066\245\020\044\122\050\276
\142\065\102\071\311\172\226\037\356\346\113\131\077\044\163\213
\277\042\113\146\362\333\017\065\361\067\235\240\044
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "AC1 RAIZ MTIN"
Issuer: C=ES,L=MADRID,O=MINISTERIO DE TRABAJO E INMIGRACION,OU=SUBDIRECCION
GENERAL DE PROCESO DE DATOS,OU=PRESTADOR DE SERVICIOS DE CERTIFICACION
MTIN,2.5.4.5=S2819001E,CN=AC1 RAIZ MTIN
Serial Number:05:0b:41:5e:82:7b
Subject: C=ES,L=MADRID,O=MINISTERIO DE TRABAJO E INMIGRACION,OU=SUBDIRECCION
GENERAL DE PROCESO DE DATOS,OU=PRESTADOR DE SERVICIOS DE CERTIFICACION
MTIN,2.5.4.5=S2819001E,CN=AC1 RAIZ MTIN
Not Valid Before: Thu Nov 05 16:17:45 2009
Not Valid After: Sun Nov 03 16:17:45 2019
Fingerprint (MD5): 27:13:d5:2c:70:06:3e:15:7b:d3:62:59:32:ea:01:05
Fingerprint (SHA1): 6a:d2:3b:9d:c4:8e:37:5f:85:9a:d9:ca:b5:85:32:5c:23:89:40:71
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC1 RAIZ MTIN"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\152\322\073\235\304\216\067\137\205\232\331\312\265\205\062\134
\043\211\100\161
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\047\023\325\054\160\006\076\025\173\323\142\131\062\352\001\005
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\342\061\026\060\024\006\003\125\004\003\023\015\101\103
\061\040\122\101\111\132\040\115\124\111\116\061\022\060\020\006
\003\125\004\005\023\011\123\062\070\061\071\060\060\061\105\061
\065\060\063\006\003\125\004\013\023\054\120\122\105\123\124\101
\104\117\122\040\104\105\040\123\105\122\126\111\103\111\117\123
\040\104\105\040\103\105\122\124\111\106\111\103\101\103\111\117

\116\040\115\124\111\116\061\061\060\057\006\003\125\004\013\023
\050\123\125\102\104\111\122\105\103\103\111\117\116\040\107\105
\116\105\122\101\114\040\104\105\040\120\122\117\103\105\123\117
\040\104\105\040\104\101\124\117\123\061\054\060\052\006\003\125
\004\012\023\043\115\111\116\111\123\124\105\122\111\117\040\104
\105\040\124\122\101\102\101\112\117\040\105\040\111\116\115\111
\107\122\101\103\111\117\116\061\017\060\015\006\003\125\004\007
\023\006\115\101\104\122\111\104\061\013\060\011\006\003\125\004
\006\023\002\105\123
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\006\005\013\101\136\202\173
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Microsoft Root Certificate Authority 2011"
Issuer: CN=Microsoft Root Certificate Authority 2011,O=Microsoft
Corporation,L=Redmond,ST=Washington,C=US
Serial Number:3f:8b:c8:b5:fc:9f:b2:96:43:b5:69:d6:6c:42:e1:44
Subject: CN=Microsoft Root Certificate Authority 2011,O=Microsoft
Corporation,L=Redmond,ST=Washington,C=US
Not Valid Before: Tue Mar 22 22:05:28 2011
Not Valid After: Sat Mar 22 22:13:04 2036
Fingerprint (MD5): ce:04:90:d5:e5:6c:34:a5:ae:0b:e9:8b:e5:81:18:5d
Fingerprint (SHA1): 8f:43:28:8a:d2:72:f3:10:3b:6f:b1:42:84:85:ea:30:14:c0:bc:fe
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft Root Certificate Authority 2011"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\127\141\163\150\151
\156\147\164\157\156\061\020\060\016\006\003\125\004\007\023\007
\122\145\144\155\157\156\144\061\036\060\034\006\003\125\004\012
\023\025\115\151\143\162\157\163\157\146\164\040\103\157\162\160
\157\162\141\164\151\157\156\061\062\060\060\006\003\125\004\003
\023\051\115\151\143\162\157\163\157\146\164\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\040\062\060\061\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL

\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\127\141\163\150\151
\156\147\164\157\156\061\020\060\016\006\003\125\004\007\023\007
\122\145\144\155\157\156\144\061\036\060\034\006\003\125\004\012
\023\025\115\151\143\162\157\163\157\146\164\040\103\157\162\160
\157\162\141\164\151\157\156\061\062\060\060\006\003\125\004\003
\023\051\115\151\143\162\157\163\157\146\164\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\040\062\060\061\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\077\213\310\265\374\237\262\226\103\265\151\326\154\102
\341\104
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\355\060\202\003\325\240\003\002\001\002\002\020\077
\213\310\265\374\237\262\226\103\265\151\326\154\102\341\104\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\201
\210\061\013\060\011\006\003\125\004\006\023\002\125\123\061\023
\060\021\006\003\125\004\010\023\012\127\141\163\150\151\156\147
\164\157\156\061\020\060\016\006\003\125\004\007\023\007\122\145
\144\155\157\156\144\061\036\060\034\006\003\125\004\012\023\025
\115\151\143\162\157\163\157\146\164\040\103\157\162\160\157\162
\141\164\151\157\156\061\062\060\060\006\003\125\004\003\023\051
\115\151\143\162\157\163\157\146\164\040\122\157\157\164\040\103
\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157
\162\151\164\171\040\062\060\061\061\060\036\027\015\061\061\060
\063\062\062\062\062\060\065\062\070\132\027\015\063\066\060\063
\062\062\062\062\061\063\060\064\132\060\201\210\061\013\060\011
\006\003\125\004\006\023\002\125\123\061\023\060\021\006\003\125
\004\010\023\012\127\141\163\150\151\156\147\164\157\156\061\020
\060\016\006\003\125\004\007\023\007\122\145\144\155\157\156\144
\061\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157
\163\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156
\061\062\060\060\006\003\125\004\003\023\051\115\151\143\162\157
\163\157\146\164\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171\040
\062\060\061\061\060\202\002\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012
\002\202\002\001\000\262\200\101\252\065\070\115\023\162\062\150
\042\115\270\262\361\377\325\122\274\154\307\365\322\112\214\066
\356\321\302\134\176\214\212\256\257\023\050\157\300\163\343\072
\316\320\045\250\132\072\155\357\250\270\131\253\023\043\150\315
\014\051\207\321\157\200\134\217\104\177\135\220\001\122\130\254
\121\305\137\052\207\334\334\330\012\035\301\003\271\173\260\126
\350\243\336\144\141\302\236\370\363\174\271\354\015\265\124\376
\114\266\145\117\210\360\234\110\231\014\102\013\011\174\061\131
\027\171\006\170\050\215\211\072\114\003\045\276\161\152\134\013

\347\204\140\244\231\042\343\322\257\204\244\247\373\321\230\355
\014\251\336\224\211\341\016\240\334\300\316\231\075\352\010\122
\273\126\171\344\037\204\272\036\270\264\304\111\134\117\061\113
\207\335\335\005\147\046\231\200\340\161\021\243\270\245\101\342
\244\123\271\367\062\051\203\014\023\277\066\136\004\263\113\103
\107\057\153\342\221\036\323\230\117\335\102\007\310\350\035\022
\374\231\251\153\076\222\176\310\326\151\072\374\144\275\266\011
\235\312\375\014\013\242\233\167\140\113\003\224\244\060\151\022
\326\102\055\301\101\114\312\334\252\375\217\133\203\106\232\331
\374\261\321\343\263\311\177\110\172\315\044\360\101\217\134\164
\320\254\260\020\040\006\111\267\307\055\041\310\127\343\320\206
\363\003\150\373\320\316\161\301\211\231\112\144\001\154\375\354
\060\221\317\101\074\222\307\345\272\206\035\141\204\307\137\203
\071\142\256\264\222\057\107\363\013\370\125\353\240\037\131\320
\273\164\233\036\320\166\346\362\351\006\327\020\350\372\144\336
\151\306\065\226\210\002\360\106\270\077\047\231\157\313\161\211
\051\065\367\110\026\002\065\217\325\171\174\115\002\317\137\353
\212\203\117\105\161\210\371\251\015\116\162\351\302\234\007\317
\111\033\116\004\016\143\121\214\136\330\000\301\125\054\266\306
\340\302\145\116\311\064\071\365\234\263\304\176\350\141\156\023
\137\025\304\137\331\176\355\035\316\356\104\354\313\056\206\261
\354\070\366\160\355\253\134\023\301\331\017\015\307\200\262\125
\355\064\367\254\233\344\303\332\347\107\074\246\265\217\061\337
\305\113\257\353\361\002\003\001\000\001\243\121\060\117\060\013
\006\003\125\035\017\004\004\003\002\001\206\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003
\125\035\016\004\026\004\024\162\055\072\002\061\220\103\271\024
\005\116\341\352\247\307\061\321\043\211\064\060\020\006\011\053
\006\001\004\001\202\067\025\001\004\003\002\001\000\060\015\006
\011\052\206\110\206\367\015\001\001\013\005\000\003\202\002\001
\000\177\162\317\017\267\305\025\333\233\300\111\312\046\133\376
\236\023\346\323\360\322\333\227\137\362\113\077\115\263\256\031
\256\355\327\227\240\254\357\251\072\243\302\101\260\345\270\221
\236\023\201\044\003\346\011\375\077\127\100\071\041\044\126\321
\020\057\113\100\251\066\206\113\264\123\127\232\373\361\176\211
\217\021\376\030\154\121\252\350\355\011\225\265\345\161\311\241
\351\207\165\246\025\177\311\176\067\124\136\164\223\305\303\147
\314\015\117\153\250\027\014\155\010\222\176\213\335\201\252\055
\160\041\303\075\006\024\273\277\044\136\247\204\327\077\017\041
\042\275\113\000\006\333\227\034\330\136\324\305\013\134\207\156
\120\244\350\303\070\244\373\313\054\305\222\146\233\205\136\313
\172\154\223\174\200\051\130\133\127\265\100\151\272\010\171\246
\144\142\025\235\207\226\105\265\146\043\040\003\213\034\163\240
\323\242\171\063\340\120\131\206\333\057\345\002\045\352\163\052
\237\000\024\310\066\307\222\073\351\116\000\354\330\126\011\271
\063\111\022\322\124\013\001\253\254\107\266\221\051\175\114\264
\165\200\122\001\350\312\202\366\237\314\254\234\217\027\352\057
\046\260\253\162\254\013\376\236\121\036\307\103\125\147\117\121

\263\127\326\266\354\356\122\267\072\351\116\341\327\201\210\274
\117\216\165\273\113\250\360\065\252\046\324\147\147\111\262\160
\114\073\223\334\035\337\170\220\206\162\262\070\244\321\334\222
\115\311\130\353\053\022\134\324\073\256\214\153\260\203\345\001
\077\370\011\062\366\223\065\064\042\257\335\067\015\167\011\200
\053\315\110\000\361\214\231\031\107\005\001\351\321\277\321\116
\320\346\050\103\067\231\244\012\112\010\331\232\161\163\322\252
\315\061\023\143\166\241\067\157\222\070\036\175\022\074\146\062
\347\313\155\341\374\122\211\335\312\326\146\005\232\226\141\276
\242\050\307\034\243\247\066\120\074\072\244\337\112\156\346\207
\073\316\353\360\340\201\067\235\023\074\122\216\275\271\035\064
\306\035\325\012\152\075\230\051\160\214\211\052\321\253\202\020
\110\037\334\364\357\245\305\273\125\032\070\143\204\116\267\154
\255\225\124\354\145\042\020\111\027\270\300\036\307\017\254\124
\107
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Microsoft Root Certificate Authority 2011"
Issuer: CN=Microsoft Root Certificate Authority 2011,O=Microsoft
Corporation,L=Redmond,ST=Washington,C=US
Serial Number:3f:8b:c8:b5:fc:9f:b2:96:43:b5:69:d6:6c:42:e1:44
Subject: CN=Microsoft Root Certificate Authority 2011,O=Microsoft
Corporation,L=Redmond,ST=Washington,C=US
Not Valid Before: Tue Mar 22 22:05:28 2011
Not Valid After: Sat Mar 22 22:13:04 2036
Fingerprint (MD5): ce:04:90:d5:e5:6c:34:a5:ae:0b:e9:8b:e5:81:18:5d
Fingerprint (SHA1): 8f:43:28:8a:d2:72:f3:10:3b:6f:b1:42:84:85:ea:30:14:c0:bc:fe
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft Root Certificate Authority 2011"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\217\103\050\212\322\162\363\020\073\157\261\102\204\205\352\060
\024\300\274\376
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\316\004\220\325\345\154\064\245\256\013\351\213\345\201\030\135
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\127\141\163\150\151
\156\147\164\157\156\061\020\060\016\006\003\125\004\007\023\007
\122\145\144\155\157\156\144\061\036\060\034\006\003\125\004\012

\023\025\115\151\143\162\157\163\157\146\164\040\103\157\162\160
\157\162\141\164\151\157\156\061\062\060\060\006\003\125\004\003
\023\051\115\151\143\162\157\163\157\146\164\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\040\062\060\061\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\077\213\310\265\374\237\262\226\103\265\151\326\154\102
\341\104
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "CCA India 2011"
Issuer: CN=CCA India 2011,O=India PKI,C=IN
Serial Number: 10126 (0x278e)
Subject: CN=CCA India 2011,O=India PKI,C=IN
Not Valid Before: Fri Mar 11 06:48:52 2011
Not Valid After: Fri Mar 11 06:48:52 2016
Fingerprint (MD5): 6e:3e:bc:f1:11:03:dc:4f:58:d5:2c:b0:74:f4:18:c8
Fingerprint (SHA1): be:d5:25:d1:ac:63:a7:fc:6a:66:0b:a7:a8:95:81:8d:5e:8d:d5:64
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CCA India 2011"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\072\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\022\060\020\006\003\125\004\012\023\011\111\156\144\151\141\040
\120\113\111\061\027\060\025\006\003\125\004\003\023\016\103\103
\101\040\111\156\144\151\141\040\062\060\061\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\072\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\022\060\020\006\003\125\004\012\023\011\111\156\144\151\141\040
\120\113\111\061\027\060\025\006\003\125\004\003\023\016\103\103
\101\040\111\156\144\151\141\040\062\060\061\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\047\216
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\043\060\202\002\013\240\003\002\001\002\002\002\047

\216\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000
\060\072\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\022\060\020\006\003\125\004\012\023\011\111\156\144\151\141\040
\120\113\111\061\027\060\025\006\003\125\004\003\023\016\103\103
\101\040\111\156\144\151\141\040\062\060\061\061\060\036\027\015
\061\061\060\063\061\061\060\066\064\070\065\062\132\027\015\061
\066\060\063\061\061\060\066\064\070\065\062\132\060\072\061\013
\060\011\006\003\125\004\006\023\002\111\116\061\022\060\020\006
\003\125\004\012\023\011\111\156\144\151\141\040\120\113\111\061
\027\060\025\006\003\125\004\003\023\016\103\103\101\040\111\156
\144\151\141\040\062\060\061\061\060\202\001\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000
\060\202\001\012\002\202\001\001\000\207\012\036\016\271\240\250
\040\230\032\270\172\025\366\107\361\277\322\306\047\344\022\152
\226\004\147\165\315\214\306\343\364\335\312\325\304\034\065\356
\115\351\344\042\324\227\070\327\254\143\151\110\300\174\171\142
\277\307\042\111\133\106\301\361\030\024\116\030\035\054\245\132
\222\270\205\025\257\027\126\023\216\237\026\016\042\226\201\204
\171\043\102\354\117\336\257\366\277\211\117\000\136\346\327\010
\322\225\224\232\023\054\004\021\203\357\221\217\010\125\254\172
\126\104\233\305\364\324\027\353\344\167\115\224\341\101\130\021
\351\242\252\011\206\055\046\041\040\365\300\314\303\025\314\114
\011\273\335\334\365\122\003\171\140\217\074\171\072\045\064\043
\207\110\165\362\101\160\115\032\060\010\206\165\316\130\031\250
\327\025\176\043\362\347\111\276\377\376\127\122\170\102\363\046
\167\335\172\367\142\345\313\135\226\063\224\223\273\304\032\026
\257\010\127\353\234\345\367\043\164\215\351\035\013\261\212\224
\163\231\021\221\305\150\240\361\212\015\201\255\264\121\150\156
\111\206\000\006\122\116\051\103\347\002\003\001\000\001\243\063
\060\061\060\017\006\003\125\035\023\001\001\377\004\005\060\003
\001\001\377\060\021\006\003\125\035\016\004\012\004\010\115\007
\250\143\362\333\034\337\060\013\006\003\125\035\017\004\004\003
\002\001\006\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\003\202\001\001\000\156\024\332\040\362\110\153\144\377
\052\164\315\126\265\305\071\017\176\141\037\065\131\033\035\050
\155\043\164\235\170\277\253\255\211\000\271\160\205\365\350\024
\076\344\354\237\226\144\134\322\261\042\040\243\010\234\350\014
\113\150\050\216\125\005\277\076\340\116\332\330\234\320\156\040
\354\376\172\073\302\066\107\227\330\053\010\263\256\302\321\346
\010\077\112\350\072\077\126\365\340\345\077\362\151\266\171\022
\340\360\071\267\030\354\322\351\204\016\030\070\026\212\111\073
\157\127\325\071\073\277\023\360\300\247\315\362\075\036\154\221
\247\167\143\274\253\331\126\070\017\112\271\031\300\053\214\373
\227\037\306\247\354\206\316\323\215\343\321\373\165\321\361\367
\246\143\304\317\350\261\244\222\105\150\362\350\214\261\255\176
\055\040\373\270\245\124\355\312\015\217\062\035\150\246\061\156
\260\310\236\325\372\277\006\233\157\051\175\172\003\111\277\053
\173\131\223\024\305\352\313\361\114\051\202\016\051\356\212\124

\174\074\315\125\202\045\162\016\161\116\045\170\115\323\116\131
\100\312\316\363\231\321\242
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "CCA India 2011"
Issuer: CN=CCA India 2011,O=India PKI,C=IN
Serial Number: 10126 (0x278e)
Subject: CN=CCA India 2011,O=India PKI,C=IN
Not Valid Before: Fri Mar 11 06:48:52 2011
Not Valid After: Fri Mar 11 06:48:52 2016
Fingerprint (MD5): 6e:3e:bc:f1:11:03:dc:4f:58:d5:2c:b0:74:f4:18:c8
Fingerprint (SHA1): be:d5:25:d1:ac:63:a7:fc:6a:66:0b:a7:a8:95:81:8d:5e:8d:d5:64
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CCA India 2011"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\276\325\045\321\254\143\247\374\152\146\013\247\250\225\201\215
\136\215\325\144
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\156\076\274\361\021\003\334\117\130\325\054\260\164\364\030\310
END
CKA_ISSUER MULTILINE_OCTAL
\060\072\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\022\060\020\006\003\125\004\012\023\011\111\156\144\151\141\040
\120\113\111\061\027\060\025\006\003\125\004\003\023\016\103\103
\101\040\111\156\144\151\141\040\062\060\061\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\047\216
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "ANCERT Certificados Notariales V2"
Issuer: CN=ANCERT Certificados Notariales V2,O=Agencia Notarial de Certificacion S.L.U. - CIF
B83395988,C=ES
Serial Number:09:bd:56:05:2a:13:16:f4:68:4f:74:0e:a9:7d:1c:48
Subject: CN=ANCERT Certificados Notariales V2,O=Agencia Notarial de Certificacion S.L.U. - CIF

B83395988,C=ES
Not Valid Before: Tue May 25 16:56:14 2010
Not Valid After: Sat May 25 16:56:14 2030
Fingerprint (MD5): 75:70:cb:6e:6b:d6:9b:7d:90:bb:69:5e:59:f0:62:b4
Fingerprint (SHA1): 6f:62:de:b8:6c:85:58:5a:e4:2e:47:8d:b4:d7:6d:b3:67:58:5a:e6
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANCERT Certificados Notariales V2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\101\060\077\006\003\125\004\012\023\070\101\147\145\156\143\151
\141\040\116\157\164\141\162\151\141\154\040\144\145\040\103\145
\162\164\151\146\151\143\141\143\151\157\156\040\123\056\114\056
\125\056\040\055\040\103\111\106\040\102\070\063\063\071\065\071
\070\070\061\052\060\050\006\003\125\004\003\023\041\101\116\103
\105\122\124\040\103\145\162\164\151\146\151\143\141\144\157\163
\040\116\157\164\141\162\151\141\154\145\163\040\126\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\101\060\077\006\003\125\004\012\023\070\101\147\145\156\143\151
\141\040\116\157\164\141\162\151\141\154\040\144\145\040\103\145
\162\164\151\146\151\143\141\143\151\157\156\040\123\056\114\056
\125\056\040\055\040\103\111\106\040\102\070\063\063\071\065\071
\070\070\061\052\060\050\006\003\125\004\003\023\041\101\116\103
\105\122\124\040\103\145\162\164\151\146\151\143\141\144\157\163
\040\116\157\164\141\162\151\141\154\145\163\040\126\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\011\275\126\005\052\023\026\364\150\117\164\016\251\175
\034\110
END
CKA_VALUE MULTILINE_OCTAL
\060\202\007\022\060\202\004\372\240\003\002\001\002\002\020\011
\275\126\005\052\023\026\364\150\117\164\016\251\175\034\110\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\174
\061\013\060\011\006\003\125\004\006\023\002\105\123\061\101\060
\077\006\003\125\004\012\023\070\101\147\145\156\143\151\141\040
\116\157\164\141\162\151\141\154\040\144\145\040\103\145\162\164
\151\146\151\143\141\143\151\157\156\040\123\056\114\056\125\056
\040\055\040\103\111\106\040\102\070\063\063\071\065\071\070\070
\061\052\060\050\006\003\125\004\003\023\041\101\116\103\105\122
\124\040\103\145\162\164\151\146\151\143\141\144\157\163\040\116
\157\164\141\162\151\141\154\145\163\040\126\062\060\036\027\015

\061\060\060\065\062\065\061\066\065\066\061\064\132\027\015\063
\060\060\065\062\065\061\066\065\066\061\064\132\060\174\061\013
\060\011\006\003\125\004\006\023\002\105\123\061\101\060\077\006
\003\125\004\012\023\070\101\147\145\156\143\151\141\040\116\157
\164\141\162\151\141\154\040\144\145\040\103\145\162\164\151\146
\151\143\141\143\151\157\156\040\123\056\114\056\125\056\040\055
\040\103\111\106\040\102\070\063\063\071\065\071\070\070\061\052
\060\050\006\003\125\004\003\023\041\101\116\103\105\122\124\040
\103\145\162\164\151\146\151\143\141\144\157\163\040\116\157\164
\141\162\151\141\154\145\163\040\126\062\060\202\002\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002
\017\000\060\202\002\012\002\202\002\001\000\262\346\271\306\035
\152\052\055\111\305\374\374\324\144\100\320\340\024\056\367\240
\302\377\222\363\101\246\264\077\332\276\031\024\221\224\166\323
\025\314\136\177\170\120\172\333\332\305\105\252\313\034\043\171
\163\220\250\273\147\001\163\216\316\100\371\032\251\252\207\344
\223\222\017\134\150\134\136\360\006\140\053\130\334\074\155\074
\307\172\060\153\005\252\222\206\163\052\322\362\032\210\304\333
\345\132\146\216\165\311\102\077\233\210\050\100\036\365\251\134
\036\372\310\101\241\060\253\013\234\356\026\242\301\055\245\205
\372\355\240\014\350\177\226\112\173\275\217\232\242\030\166\322
\257\335\267\075\020\253\122\020\210\256\035\353\270\062\164\226
\364\267\252\047\367\245\007\015\343\224\127\152\124\040\167\315
\035\274\171\055\344\234\264\336\121\210\376\126\326\075\213\241
\317\372\122\036\214\005\163\167\326\005\317\143\000\121\207\141
\343\120\276\231\227\341\374\036\021\171\153\116\152\317\234\205
\012\034\226\052\300\040\066\024\305\011\027\142\073\364\255\352
\325\327\375\320\071\052\170\323\320\242\317\310\163\060\011\107
\305\116\031\375\270\060\324\017\200\230\210\206\301\114\101\172
\043\305\103\375\136\022\270\076\017\261\267\201\142\014\176\157
\343\173\232\302\302\107\021\041\037\317\236\321\060\316\203\301
\020\115\100\167\327\265\302\113\062\100\102\372\233\260\254\317
\353\041\330\031\353\144\305\153\335\125\055\200\207\104\174\114
\074\253\015\330\022\277\064\202\214\261\252\304\270\153\350\016
\106\167\322\213\006\035\102\373\254\275\311\347\063\263\042\157
\176\325\056\003\305\137\005\026\206\174\355\343\236\321\026\167
\032\106\330\311\320\214\344\134\134\041\005\221\361\144\344\254
\305\067\256\265\275\147\023\256\051\345\263\102\304\160\011\243
\135\114\353\067\040\343\360\365\163\063\073\302\374\216\121\205
\066\052\313\201\333\016\211\043\331\342\341\150\272\054\104\167
\076\034\100\272\360\147\216\030\207\360\075\327\351\077\107\133
\065\102\315\247\004\316\110\162\051\005\032\264\321\242\347\015
\171\212\226\155\147\122\055\073\043\346\371\202\234\326\263\171
\136\024\336\145\110\063\374\035\102\350\055\002\003\001\000\001
\243\202\001\216\060\202\001\212\060\017\006\003\125\035\023\001
\001\377\004\005\060\003\001\001\377\060\202\001\045\006\003\125
\035\040\004\202\001\034\060\202\001\030\060\202\001\024\006\011
\053\006\001\004\001\201\223\150\001\060\202\001\005\060\045\006

\010\053\006\001\005\005\007\002\001\026\031\150\164\164\160\072
\057\057\167\167\167\056\141\156\143\145\162\164\056\143\157\155
\057\143\160\163\060\201\333\006\010\053\006\001\005\005\007\002
\002\060\201\316\060\015\026\006\101\116\103\105\122\124\060\003
\002\001\001\036\201\274\000\101\000\147\000\145\000\156\000\143
\000\151\000\141\000\040\000\116\000\157\000\164\000\141\000\162
\000\151\000\141\000\154\000\040\000\144\000\145\000\040\000\103
\000\145\000\162\000\164\000\151\000\146\000\151\000\143\000\141
\000\143\000\151\000\157\000\156\000\056\000\040\000\120\000\141
\000\163\000\145\000\157\000\040\000\144\000\145\000\154\000\240
\000\107\000\145\000\156\000\145\000\162\000\141\000\154\000\040
\000\115\000\141\000\162\000\164\000\151\000\156\000\145\000\172
\000\040\000\103\000\141\000\155\000\160\000\157\000\163\000\040
\000\064\000\066\000\040\000\066\000\141\000\040\000\160\000\154
\000\141\000\156\000\164\000\141\000\040\000\062\000\070\000\060
\000\061\000\060\000\040\000\115\000\141\000\144\000\162\000\151
\000\144\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\206\060\035\006\003\125\035\016\004\026\004\024\366\022\072
\253\173\130\301\215\103\157\166\201\322\362\270\323\357\027\352
\013\060\037\006\003\125\035\043\004\030\060\026\200\024\366\022
\072\253\173\130\301\215\103\157\166\201\322\362\270\323\357\027
\352\013\060\015\006\011\052\206\110\206\367\015\001\001\013\005
\000\003\202\002\001\000\124\065\323\242\145\311\331\066\305\123
\321\264\215\162\064\211\272\247\010\237\351\065\020\271\270\014
\006\371\144\252\225\226\050\250\310\243\200\334\126\300\277\162
\115\126\277\177\135\004\325\255\050\133\115\275\363\303\017\025
\260\161\332\126\215\100\125\127\246\175\142\242\255\023\151\121
\252\224\120\272\275\000\060\120\365\335\244\116\011\172\224\061
\153\333\163\003\275\363\332\032\017\214\057\262\311\067\274\124
\325\013\043\067\365\344\133\067\146\211\117\264\307\005\244\145
\334\131\060\246\023\053\176\025\355\354\020\027\211\122\311\235
\337\242\114\355\366\017\036\246\111\260\015\121\263\061\261\121
\231\313\264\321\043\170\322\113\250\264\035\026\246\240\320\076
\007\176\145\077\045\316\144\116\033\056\113\115\202\205\032\145
\333\356\342\003\360\131\044\005\217\231\357\171\202\337\356\052
\067\150\303\152\120\001\131\137\237\150\334\054\121\140\053\135
\340\122\074\073\160\270\000\323\067\250\076\133\036\166\010\132
\324\273\166\060\256\371\310\362\216\244\217\012\165\175\032\230
\341\277\320\066\224\057\074\301\122\323\151\352\032\140\067\214
\200\333\115\155\306\232\135\215\240\141\121\273\075\015\346\022
\240\237\157\131\126\164\062\147\012\374\067\006\301\072\344\053
\216\204\037\332\041\014\111\210\103\323\245\365\202\015\166\206
\303\054\314\220\273\263\270\253\306\313\256\300\027\121\236\323
\200\367\044\332\034\354\316\022\203\316\116\066\060\071\165\370
\164\166\220\202\236\076\100\114\014\024\271\032\036\110\152\260
\061\352\210\177\200\101\100\123\173\070\113\207\220\140\172\113
\316\147\106\150\165\167\216\000\135\040\260\344\223\067\155\003
\337\130\071\350\232\305\244\353\354\141\063\010\205\044\153\117

\006\351\255\220\245\066\142\154\343\335\175\011\037\063\277\267
\273\367\311\165\005\367\133\253\372\207\131\257\032\147\020\176
\204\334\214\160\326\104\351\020\301\330\233\056\321\306\100\152
\352\346\132\017\020\175\154\373\125\207\272\115\265\161\003\236
\027\217\170\332\125\075\127\136\042\012\152\230\360\215\010\315
\335\226\102\132\033\315\272\157\047\270\164\047\250\077\345\240
\326\163\307\136\057\041
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "ANCERT Certificados Notariales V2"
Issuer: CN=ANCERT Certificados Notariales V2,O=Agencia Notarial de Certificacion S.L.U. - CIF B83395988,C=ES
Serial Number:09:bd:56:05:2a:13:16:f4:68:4f:74:0e:a9:7d:1c:48
Subject: CN=ANCERT Certificados Notariales V2,O=Agencia Notarial de Certificacion S.L.U. - CIF B83395988,C=ES
Not Valid Before: Tue May 25 16:56:14 2010
Not Valid After: Sat May 25 16:56:14 2030
Fingerprint (MD5): 75:70:cb:6e:6b:d6:9b:7d:90:bb:69:5e:59:f0:62:b4
Fingerprint (SHA1): 6f:62:de:b8:6c:85:58:5a:e4:2e:47:8d:b4:d7:6d:b3:67:58:5a:e6
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANCERT Certificados Notariales V2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\157\142\336\270\154\205\130\132\344\056\107\215\264\327\155\263
\147\130\132\346
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\165\160\313\156\153\326\233\175\220\273\151\136\131\360\142\264
END
CKA_ISSUER MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\101\060\077\006\003\125\004\012\023\070\101\147\145\156\143\151
\141\040\116\157\164\141\162\151\141\154\040\144\145\040\103\145
\162\164\151\146\151\143\141\143\151\157\156\040\123\056\114\056
\125\056\040\055\040\103\111\106\040\102\070\063\063\071\065\071
\070\070\061\052\060\050\006\003\125\004\003\023\041\101\116\103
\105\122\124\040\103\145\162\164\151\146\151\143\141\144\157\163
\040\116\157\164\141\162\151\141\154\145\163\040\126\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\011\275\126\005\052\023\026\364\150\117\164\016\251\175
\034\110

END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "ANCERT Certificados CGN V2"
Issuer: CN=ANCERT Certificados CGN V2,O=Agencia Notarial de Certificacion S.L.U. - CIF B83395988,C=ES
Serial Number:0f:38:8c:70:fe:a6:95:5d:e9:5d:9c:87:af:79:04:99
Subject: CN=ANCERT Certificados CGN V2,O=Agencia Notarial de Certificacion S.L.U. - CIF
B83395988,C=ES
Not Valid Before: Tue May 25 16:31:22 2010
Not Valid After: Sat May 25 16:31:23 2030
Fingerprint (MD5): 92:45:af:c3:89:71:e6:87:1d:8e:5a:20:a6:33:0e:93
Fingerprint (SHA1): 7e:b1:a0:42:9b:e5:f4:28:ac:2b:93:97:1d:7c:84:48:a5:36:07:0c
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANCERT Certificados CGN V2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\165\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\101\060\077\006\003\125\004\012\023\070\101\147\145\156\143\151
\141\040\116\157\164\141\162\151\141\154\040\144\145\040\103\145
\162\164\151\146\151\143\141\143\151\157\156\040\123\056\114\056
\125\056\040\055\040\103\111\106\040\102\070\063\063\071\065\071
\070\070\061\043\060\041\006\003\125\004\003\023\032\101\116\103
\105\122\124\040\103\145\162\164\151\146\151\143\141\144\157\163
\040\103\107\116\040\126\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\165\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\101\060\077\006\003\125\004\012\023\070\101\147\145\156\143\151
\141\040\116\157\164\141\162\151\141\154\040\144\145\040\103\145
\162\164\151\146\151\143\141\143\151\157\156\040\123\056\114\056
\125\056\040\055\040\103\111\106\040\102\070\063\063\071\065\071
\070\070\061\043\060\041\006\003\125\004\003\023\032\101\116\103
\105\122\124\040\103\145\162\164\151\146\151\143\141\144\157\163
\040\103\107\116\040\126\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\017\070\214\160\376\246\225\135\351\135\234\207\257\171
\004\231
END
CKA_VALUE MULTILINE_OCTAL

\060\202\007\004\060\202\004\354\240\003\002\001\002\002\020\017
\070\214\160\376\246\225\135\351\135\234\207\257\171\004\231\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\165
\061\013\060\011\006\003\125\004\006\023\002\105\123\061\101\060
\077\006\003\125\004\012\023\070\101\147\145\156\143\151\141\040
\116\157\164\141\162\151\141\154\040\144\145\040\103\145\162\164
\151\146\151\143\141\143\151\157\156\040\123\056\114\056\125\056
\040\055\040\103\111\106\040\102\070\063\063\071\065\071\070\070
\061\043\060\041\006\003\125\004\003\023\032\101\116\103\105\122
\124\040\103\145\162\164\151\146\151\143\141\144\157\163\040\103
\107\116\040\126\062\060\036\027\015\061\060\060\065\062\065\061
\066\063\061\062\062\132\027\015\063\060\060\065\062\065\061\066
\063\061\062\063\132\060\165\061\013\060\011\006\003\125\004\006
\023\002\105\123\061\101\060\077\006\003\125\004\012\023\070\101
\147\145\156\143\151\141\040\116\157\164\141\162\151\141\154\040
\144\145\040\103\145\162\164\151\146\151\143\141\143\151\157\156
\040\123\056\114\056\125\056\040\055\040\103\111\106\040\102\070
\063\063\071\065\071\070\070\061\043\060\041\006\003\125\004\003
\023\032\101\116\103\105\122\124\040\103\145\162\164\151\146\151
\143\141\144\157\163\040\103\107\116\040\126\062\060\202\002\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\002\017\000\060\202\002\012\002\202\002\001\000\235\122\160
\351\047\030\203\312\352\304\231\330\246\341\056\024\257\156\036
\016\144\312\201\067\125\047\034\027\167\130\147\037\214\311\371
\302\212\142\145\050\164\233\342\321\276\125\007\166\166\356\174
\155\116\143\133\036\112\045\165\340\007\241\320\322\202\247\316
\017\063\353\272\024\300\145\262\112\056\345\145\274\042\322\257
\032\016\312\313\363\144\145\053\054\231\243\227\213\213\165\060
\376\146\372\301\117\113\067\120\214\077\363\336\231\172\116\207
\234\040\106\162\227\376\126\033\146\116\240\202\123\243\134\330
\050\106\014\005\027\157\070\326\134\237\016\045\042\301\206\343
\134\032\124\333\256\235\145\175\000\222\337\250\041\041\305\133
\020\046\164\341\261\163\127\144\174\175\027\003\014\352\367\024
\227\017\371\305\356\135\165\260\305\306\012\013\264\076\111\343
\031\306\233\104\223\374\132\025\144\012\262\203\377\200\136\210
\011\320\312\040\243\133\373\333\315\341\032\167\043\030\160\032
\213\355\104\077\326\032\250\066\070\341\235\057\247\167\304\172
\263\300\162\262\162\315\036\077\020\136\032\210\164\215\360\022
\305\367\257\111\334\225\257\053\115\264\220\312\371\356\357\014
\343\277\026\067\043\123\343\051\372\364\164\151\150\075\127\155
\024\140\212\144\151\050\144\115\372\066\107\375\270\022\316\303
\206\252\134\334\146\071\007\117\073\343\343\305\150\256\316\340
\071\134\040\203\077\022\012\070\263\000\301\134\023\227\042\136
\072\113\065\231\370\304\036\336\371\210\021\216\204\311\213\062
\362\322\327\277\042\007\077\140\170\056\165\034\242\272\043\022
\323\360\117\120\071\354\311\167\047\307\132\052\216\323\271\265
\164\004\231\025\057\056\206\137\217\006\301\312\352\342\250\037
\115\175\063\204\221\244\222\303\320\246\110\135\146\032\167\204

\040\120\234\352\004\013\014\043\226\317\261\234\374\271\272\037
\227\250\323\253\003\145\057\175\256\124\307\171\342\034\066\335
\155\322\006\230\001\375\316\374\077\113\303\322\256\377\211\330
\071\061\003\330\261\144\167\003\306\370\243\215\374\052\171\347
\020\275\271\155\221\034\076\235\313\274\125\177\042\376\141\204
\370\330\324\247\041\172\071\136\162\062\353\114\165\002\003\001
\000\001\243\202\001\216\060\202\001\212\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\202\001\045\006
\003\125\035\040\004\202\001\034\060\202\001\030\060\202\001\024
\006\011\053\006\001\004\001\201\223\150\004\060\202\001\005\060
\045\006\010\053\006\001\005\005\007\002\001\026\031\150\164\164
\160\072\057\057\167\167\167\056\141\156\143\145\162\164\056\143
\157\155\057\143\160\163\060\201\333\006\010\053\006\001\005\005
\007\002\002\060\201\316\060\015\026\006\101\116\103\105\122\124
\060\003\002\001\001\036\201\274\000\101\000\147\000\145\000\156
\000\143\000\151\000\141\000\040\000\116\000\157\000\164\000\141
\000\162\000\151\000\141\000\154\000\040\000\144\000\145\000\040
\000\103\000\145\000\162\000\164\000\151\000\146\000\151\000\143
\000\141\000\143\000\151\000\157\000\156\000\056\000\040\000\120
\000\141\000\163\000\145\000\157\000\040\000\144\000\145\000\154
\000\240\000\107\000\145\000\156\000\145\000\162\000\141\000\154
\000\040\000\115\000\141\000\162\000\164\000\151\000\156\000\145
\000\172\000\040\000\103\000\141\000\155\000\160\000\157\000\163
\000\040\000\064\000\066\000\040\000\066\000\141\000\040\000\160
\000\154\000\141\000\156\000\164\000\141\000\040\000\062\000\070
\000\060\000\061\000\060\000\040\000\115\000\141\000\144\000\162
\000\151\000\144\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\206\060\035\006\003\125\035\016\004\026\004\024\005
\156\341\241\232\356\007\257\316\365\264\323\145\075\004\120\342
\320\233\104\060\037\006\003\125\035\043\004\030\060\026\200\024
\005\156\341\241\232\356\007\257\316\365\264\323\145\075\004\120
\342\320\233\104\060\015\006\011\052\206\110\206\367\015\001\001
\013\005\000\003\202\002\001\000\177\124\100\031\044\312\114\023
\366\023\371\134\142\225\060\325\270\340\223\200\154\324\025\106
\324\047\076\222\122\252\334\201\143\206\100\333\325\045\257\237
\223\154\012\365\115\241\376\124\226\135\207\257\021\223\017\213
\362\343\360\037\112\237\374\251\321\311\120\167\137\230\010\010
\055\172\213\201\020\314\073\002\124\130\345\306\247\364\367\312
\350\366\067\006\176\347\021\327\154\205\143\367\250\243\016\342
\045\142\004\244\362\142\123\234\107\264\247\144\273\201\345\326
\136\126\021\276\105\021\141\302\146\351\364\015\164\250\253\371
\133\277\202\262\221\246\120\373\207\176\157\273\310\353\005\242
\271\020\327\033\102\007\125\317\211\346\277\373\271\360\152\071
\127\123\160\214\275\113\243\151\277\037\213\246\134\115\145\212
\271\000\011\350\150\277\011\047\007\115\136\332\122\011\214\345
\161\223\212\314\205\216\322\067\136\123\334\202\155\013\126\112
\204\171\012\364\020\045\104\365\157\135\032\146\265\315\325\020
\113\207\132\116\324\177\344\161\254\356\150\237\274\372\056\130

\301\304\236\177\244\131\205\340\122\016\362\307\107\165\025\055
\054\166\214\017\105\005\065\140\370\173\073\167\062\177\050\200
\011\332\061\274\161\175\341\254\221\315\140\012\171\040\354\156
\073\267\204\340\162\363\251\112\320\057\344\133\343\322\032\324
\112\274\365\166\371\177\052\031\110\353\335\016\317\231\126\105
\270\175\326\011\216\016\316\263\204\150\111\204\124\065\113\344
\231\033\257\363\250\024\363\124\230\012\200\176\117\274\362\146
\055\046\377\060\215\247\366\275\333\232\217\345\341\337\273\267
\062\016\371\222\157\151\343\344\166\323\000\066\361\055\136\307
\023\137\325\331\152\055\350\321\033\153\166\313\030\156\016\005
\020\365\132\362\111\033\131\264\205\352\312\031\164\314\273\122
\342\067\214\302\152\002\045\302\322\161\244\222\333\216\311\326
\251\156\320\205\050\155\134\155\010\170\002\260\171\014\127\157
\013\132\001\343\204\204\002\366\317\362\253\143\353\002\152\271
\313\112\030\325\071\042\074\126\112\252\225\210\346\060\000\037
\215\041\041\311\127\356\271\267\104\051\210\117\266\053\247\024
\356\216\356\157\276\026\320\023
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "ANCERT Certificados CGN V2"
Issuer: CN=ANCERT Certificados CGN V2,O=Agencia Notarial de Certificacion S.L.U. - CIF B83395988,C=ES
Serial Number:0f:38:8c:70:fe:a6:95:5d:e9:5d:9c:87:af:79:04:99
Subject: CN=ANCERT Certificados CGN V2,O=Agencia Notarial de Certificacion S.L.U. - CIF
B83395988,C=ES
Not Valid Before: Tue May 25 16:31:22 2010
Not Valid After: Sat May 25 16:31:23 2030
Fingerprint (MD5): 92:45:af:c3:89:71:e6:87:1d:8e:5a:20:a6:33:0e:93
Fingerprint (SHA1): 7e:b1:a0:42:9b:e5:f4:28:ac:2b:93:97:1d:7c:84:48:a5:36:07:0c
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANCERT Certificados CGN V2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\176\261\240\102\233\345\364\050\254\053\223\227\035\174\204\110
\245\066\007\014
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\222\105\257\303\211\161\346\207\035\216\132\040\246\063\016\223
END
CKA_ISSUER MULTILINE_OCTAL
\060\165\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\101\060\077\006\003\125\004\012\023\070\101\147\145\156\143\151
\141\040\116\157\164\141\162\151\141\154\040\144\145\040\103\145

\162\164\151\146\151\143\141\143\151\157\156\040\123\056\114\056
\125\056\040\055\040\103\111\106\040\102\070\063\063\071\065\071
\070\070\061\043\060\041\006\003\125\004\003\023\032\101\116\103
\105\122\124\040\103\145\162\164\151\146\151\143\141\144\157\163
\040\103\107\116\040\126\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\017\070\214\160\376\246\225\135\351\135\234\207\257\171
\004\231
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "EE Certification Centre Root CA"
Issuer: 1.2.840.113549.1.9.1=pki@sk.ee,CN=EE Certification Centre Root CA,O=AS
Sertifitseerimiskeskus,C=EE
Serial Number:54:80:f9:a0:73:ed:3f:00:4c:ca:89:d8:e3:71:e6:4a
Subject: 1.2.840.113549.1.9.1=pki@sk.ee,CN=EE Certification Centre Root CA,O=AS
Sertifitseerimiskeskus,C=EE
Not Valid Before: Sat Oct 30 10:10:30 2010
Not Valid After: Tue Dec 17 23:59:59 2030
Fingerprint (MD5): 43:5e:88:d4:7d:1a:4a:7e:fd:84:2e:52:eb:01:d4:6f
Fingerprint (SHA1): c9:a8:b9:e7:55:80:5e:58:e3:53:77:a7:25:eb:af:c3:7b:27:cc:d7
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "EE Certification Centre Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\165\061\013\060\011\006\003\125\004\006\023\002\105\105\061
\042\060\040\006\003\125\004\012\014\031\101\123\040\123\145\162
\164\151\146\151\164\163\145\145\162\151\155\151\163\153\145\163
\153\165\163\061\050\060\046\006\003\125\004\003\014\037\105\105
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\103
\145\156\164\162\145\040\122\157\157\164\040\103\101\061\030\060
\026\006\011\052\206\110\206\367\015\001\011\001\026\011\160\153
\151\100\163\153\056\145\145
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\165\061\013\060\011\006\003\125\004\006\023\002\105\105\061
\042\060\040\006\003\125\004\012\014\031\101\123\040\123\145\162
\164\151\146\151\164\163\145\145\162\151\155\151\163\153\145\163
\153\165\163\061\050\060\046\006\003\125\004\003\014\037\105\105

\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\103
\145\156\164\162\145\040\122\157\157\164\040\103\101\061\030\060
\026\006\011\052\206\110\206\367\015\001\011\001\026\011\160\153
\151\100\163\153\056\145\145
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\124\200\371\240\163\355\077\000\114\312\211\330\343\161
\346\112
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\003\060\202\002\353\240\003\002\001\002\002\020\124
\200\371\240\163\355\077\000\114\312\211\330\343\161\346\112\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\165
\061\013\060\011\006\003\125\004\006\023\002\105\105\061\042\060
\040\006\003\125\004\012\014\031\101\123\040\123\145\162\164\151
\146\151\164\163\145\145\162\151\155\151\163\153\145\163\153\165
\163\061\050\060\046\006\003\125\004\003\014\037\105\105\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\103\145\156
\164\162\145\040\122\157\157\164\040\103\101\061\030\060\026\006
\011\052\206\110\206\367\015\001\011\001\026\011\160\153\151\100
\163\153\056\145\145\060\042\030\017\062\060\061\060\061\060\063
\060\061\060\061\060\063\060\132\030\017\062\060\063\060\061\062
\061\067\062\063\065\071\065\071\132\060\165\061\013\060\011\006
\003\125\004\006\023\002\105\105\061\042\060\040\006\003\125\004
\012\014\031\101\123\040\123\145\162\164\151\146\151\164\163\145
\145\162\151\155\151\163\153\145\163\153\165\163\061\050\060\046
\006\003\125\004\003\014\037\105\105\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\103\145\156\164\162\145\040\122
\157\157\164\040\103\101\061\030\060\026\006\011\052\206\110\206
\367\015\001\011\001\026\011\160\153\151\100\163\153\056\145\145
\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001\001
\000\310\040\300\354\340\305\113\253\007\170\225\363\104\356\373
\013\014\377\164\216\141\273\261\142\352\043\330\253\241\145\062
\172\353\216\027\117\226\330\012\173\221\242\143\154\307\214\114
\056\171\277\251\005\374\151\134\225\215\142\371\271\160\355\303
\121\175\320\223\346\154\353\060\113\341\274\175\277\122\233\316
\156\173\145\362\070\261\300\242\062\357\142\262\150\340\141\123
\301\066\225\377\354\224\272\066\256\234\034\247\062\017\345\174
\264\306\157\164\375\173\030\350\254\127\355\006\040\113\062\060
\130\133\375\315\250\346\241\374\160\274\216\222\163\333\227\247
\174\041\256\075\301\365\110\207\154\047\275\237\045\164\201\125
\260\367\165\366\075\244\144\153\326\117\347\316\100\255\017\335
\062\323\274\212\022\123\230\311\211\373\020\035\115\176\315\176
\037\126\015\041\160\205\366\040\203\037\366\272\037\004\217\352
\167\210\065\304\377\352\116\241\213\115\077\143\033\104\303\104
\324\045\166\312\267\215\327\036\112\146\144\315\134\305\234\203
\341\302\010\210\232\354\116\243\361\076\034\054\331\154\035\241

\113\002\003\001\000\001\243\201\212\060\201\207\060\017\006\003
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\035\006
\003\125\035\016\004\026\004\024\022\362\132\076\352\126\034\277
\315\006\254\361\361\045\311\251\113\324\024\231\060\105\006\003
\125\035\045\004\076\060\074\006\010\053\006\001\005\005\007\003
\002\006\010\053\006\001\005\005\007\003\001\006\010\053\006\001
\005\005\007\003\003\006\010\053\006\001\005\005\007\003\004\006
\010\053\006\001\005\005\007\003\010\006\010\053\006\001\005\005
\007\003\011\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\003\202\001\001\000\173\366\344\300\015\252\031\107\267
\115\127\243\376\255\273\261\152\325\017\236\333\344\143\305\216
\241\120\126\223\226\270\070\300\044\042\146\274\123\024\141\225
\277\320\307\052\226\071\077\175\050\263\020\100\041\152\304\257
\260\122\167\030\341\226\330\126\135\343\335\066\136\035\247\120
\124\240\305\052\344\252\214\224\212\117\235\065\377\166\244\006
\023\221\242\242\175\000\104\077\125\323\202\074\032\325\133\274
\126\114\042\056\106\103\212\044\100\055\363\022\270\073\160\032
\244\226\271\032\257\207\101\032\152\030\015\006\117\307\076\156
\271\051\115\015\111\211\021\207\062\133\346\113\004\310\344\134
\346\164\163\224\135\026\230\023\225\376\373\333\261\104\345\072
\160\254\067\153\346\263\063\162\050\311\263\127\240\366\002\026
\210\006\013\266\246\113\040\050\324\336\075\213\255\067\005\123
\164\376\156\314\274\103\027\161\136\371\305\314\032\251\141\356
\367\166\014\363\162\364\162\255\317\162\002\066\007\107\317\357
\031\120\211\140\314\351\044\225\017\302\313\035\362\157\166\220
\307\314\165\301\226\305\235
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "EE Certification Centre Root CA"
Issuer: 1.2.840.113549.1.9.1=pki@sk.ee,CN=EE Certification Centre Root CA,O=AS
Sertifitseerimiskeskus,C=EE
Serial Number:54:80:f9:a0:73:ed:3f:00:4c:ca:89:d8:e3:71:e6:4a
Subject: 1.2.840.113549.1.9.1=pki@sk.ee,CN=EE Certification Centre Root CA,O=AS
Sertifitseerimiskeskus,C=EE
Not Valid Before: Sat Oct 30 10:10:30 2010
Not Valid After: Tue Dec 17 23:59:59 2030
Fingerprint (MD5): 43:5e:88:d4:7d:1a:4a:7e:fd:84:2e:52:eb:01:d4:6f
Fingerprint (SHA1): c9:a8:b9:e7:55:80:5e:58:e3:53:77:a7:25:eb:af:c3:7b:27:cc:d7
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "EE Certification Centre Root CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\311\250\271\347\125\200\136\130\343\123\167\247\045\353\257\303
\173\047\314\327
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\103\136\210\324\175\032\112\176\375\204\056\122\353\001\324\157
END
CKA_ISSUER MULTILINE_OCTAL
\060\165\061\013\060\011\006\003\125\004\006\023\002\105\105\061
\042\060\040\006\003\125\004\012\014\031\101\123\040\123\145\162
\164\151\146\151\164\163\145\145\162\151\155\151\163\153\145\163
\153\165\163\061\050\060\046\006\003\125\004\003\014\037\105\105
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\103
\145\156\164\162\145\040\122\157\157\164\040\103\101\061\030\060
\026\006\011\052\206\110\206\367\015\001\011\001\026\011\160\153
\151\100\163\153\056\145\145
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\124\200\371\240\163\355\077\000\114\312\211\330\343\161
\346\112
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "DigiNotar Root CA G2"
Issuer: 1.2.840.113549.1.9.1=info@diginotar.nl,CN=DigiNotar Root CA G2,O=DigiNotar,C=NL
Serial Number:0a:82:bd:1e:14:4e:88:14:d7:5b:1a:55:27:be:bf:3e
Subject: 1.2.840.113549.1.9.1=info@diginotar.nl,CN=DigiNotar Root CA G2,O=DigiNotar,C=NL
Not Valid Before: Fri Jul 03 13:59:02 2009
Not Valid After: Tue Jul 03 13:59:02 2029
Fingerprint (MD5): c2:96:e0:e4:97:2c:aa:61:c4:9b:9b:77:18:38:5c:9e
Fingerprint (SHA1): 43:d9:bc:b5:68:e0:39:d0:73:a7:4a:71:d8:51:1f:74:76:08:9c:c3
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiNotar Root CA G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\022\060\020\006\003\125\004\012\023\011\104\151\147\151\116\157
\164\141\162\061\035\060\033\006\003\125\004\003\023\024\104\151
\147\151\116\157\164\141\162\040\122\157\157\164\040\103\101\040
\107\062\061\040\060\036\006\011\052\206\110\206\367\015\001\011
\001\026\021\151\156\146\157\100\144\151\147\151\156\157\164\141

\162\056\156\154
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\022\060\020\006\003\125\004\012\023\011\104\151\147\151\116\157
\164\141\162\061\035\060\033\006\003\125\004\003\023\024\104\151
\147\151\116\157\164\141\162\040\122\157\157\164\040\103\101\040
\107\062\061\040\060\036\006\011\052\206\110\206\367\015\001\011
\001\026\021\151\156\146\157\100\144\151\147\151\156\157\164\141
\162\056\156\154
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\012\202\275\036\024\116\210\024\327\133\032\125\047\276
\277\076
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\220\060\202\003\170\240\003\002\001\002\002\020\012
\202\275\036\024\116\210\024\327\133\032\125\047\276\277\076\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\142
\061\013\060\011\006\003\125\004\006\023\002\116\114\061\022\060
\020\006\003\125\004\012\023\011\104\151\147\151\116\157\164\141
\162\061\035\060\033\006\003\125\004\003\023\024\104\151\147\151
\116\157\164\141\162\040\122\157\157\164\040\103\101\040\107\062
\061\040\060\036\006\011\052\206\110\206\367\015\001\011\001\026
\021\151\156\146\157\100\144\151\147\151\156\157\164\141\162\056
\156\154\060\036\027\015\060\071\060\067\060\063\061\063\065\071
\060\062\132\027\015\062\071\060\067\060\063\061\063\065\071\060
\062\132\060\142\061\013\060\011\006\003\125\004\006\023\002\116
\114\061\022\060\020\006\003\125\004\012\023\011\104\151\147\151
\116\157\164\141\162\061\035\060\033\006\003\125\004\003\023\024
\104\151\147\151\116\157\164\141\162\040\122\157\157\164\040\103
\101\040\107\062\061\040\060\036\006\011\052\206\110\206\367\015
\001\011\001\026\021\151\156\146\157\100\144\151\147\151\156\157
\164\141\162\056\156\154\060\202\002\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202
\002\012\002\202\002\001\000\277\256\020\001\373\114\076\266\254
\003\365\230\317\043\222\050\244\023\075\032\332\240\117\213\145
\345\056\344\340\246\216\070\165\073\345\263\130\025\334\062\145
\376\176\166\030\005\331\202\251\266\241\366\375\304\273\153\154
\173\044\264\201\365\054\075\207\251\300\103\327\334\070\054\340
\115\022\204\027\274\015\114\323\161\113\063\270\102\004\061\161
\307\044\036\105\027\320\374\151\052\132\041\225\215\004\207\214
\300\167\023\142\215\275\344\310\217\212\020\025\175\165\305\240
\166\145\260\216\001\066\016\210\011\174\240\243\071\045\253\150
\222\255\346\064\171\357\224\027\322\153\057\040\060\005\251\221
\071\254\014\134\001\307\245\162\260\217\017\030\215\242\071\332
\334\064\224\104\245\220\100\105\270\356\347\344\153\364\151\067

\330\325\242\200\057\325\371\366\115\046\353\123\240\241\205\137
\320\275\312\055\034\046\256\160\230\075\032\274\161\143\043\231
\103\211\256\074\073\131\147\123\066\066\102\015\341\145\020\010
\232\123\271\350\176\341\260\272\043\332\233\042\107\055\263\133
\175\304\177\002\372\062\116\026\376\372\212\253\131\032\266\142
\072\275\310\240\133\257\343\223\271\134\206\264\215\347\040\013
\156\004\004\375\322\245\246\356\375\264\051\031\041\357\102\221
\043\204\112\053\372\016\112\064\315\260\260\225\172\004\015\250
\060\136\075\040\173\077\152\003\105\333\005\005\224\220\307\326
\116\146\204\002\073\200\314\337\342\207\154\144\322\160\137\117
\160\273\154\103\030\032\351\154\340\200\126\305\305\346\000\255
\337\115\355\121\215\306\352\011\361\011\012\242\332\123\107\117
\233\230\323\340\311\276\330\207\134\245\123\243\215\253\323\274
\056\013\172\277\106\021\143\244\130\025\252\034\156\376\111\006
\123\002\112\363\323\362\101\315\127\137\225\045\270\341\207\363
\140\227\177\354\041\211\312\323\166\154\335\121\221\106\063\100
\330\110\224\055\352\005\162\273\264\034\241\124\267\307\346\351
\112\176\053\262\327\041\031\137\000\344\232\134\215\241\070\257
\071\052\354\140\065\110\130\057\171\242\312\114\052\344\176\250
\021\210\121\355\277\017\073\156\005\261\200\107\071\344\147\342
\207\141\304\216\254\207\311\002\003\001\000\001\243\102\060\100
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\006\060\035\006\003\125\035\016\004\026\004\024\051\015\333\077
\007\122\345\013\324\041\150\056\044\112\336\133\132\226\362\041
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003
\202\002\001\000\042\357\356\300\123\343\244\145\343\317\040\256
\023\342\242\336\327\067\053\124\017\016\233\215\137\230\347\151
\052\036\073\245\265\131\274\254\176\152\346\226\060\336\227\001
\375\164\366\137\045\000\367\243\143\212\264\261\015\302\031\030
\003\316\345\060\041\022\221\060\161\342\221\213\363\334\153\303
\005\255\314\055\142\230\066\047\135\243\340\025\233\202\075\032
\150\165\225\335\172\150\052\017\042\151\066\063\267\153\242\050
\206\120\221\125\021\132\022\000\214\235\121\334\340\262\126\275
\120\105\164\377\224\173\321\327\360\073\344\115\341\104\351\337
\153\204\342\042\114\225\170\264\224\314\127\011\236\041\207\254
\226\241\023\033\013\305\231\147\134\035\361\025\265\064\334\274
\370\036\354\253\077\224\047\262\211\231\374\325\130\076\245\244
\006\323\103\371\034\066\015\217\002\020\134\365\005\000\167\372
\247\354\231\126\316\230\005\370\162\246\271\005\033\043\016\016
\100\147\265\171\112\144\073\201\265\241\212\021\133\237\207\031
\174\360\224\116\063\243\121\020\325\273\275\121\213\150\030\007
\256\032\127\377\104\033\307\337\133\323\263\315\371\260\157\115
\302\313\202\345\213\156\051\320\131\201\234\154\116\375\173\020
\327\166\020\237\054\105\201\376\135\160\254\274\200\313\362\041
\302\303\142\042\333\030\116\020\217\105\260\033\232\042\043\244
\324\034\367\152\242\063\337\371\314\005\250\125\350\275\227\205
\250\336\263\145\335\116\004\022\170\235\351\312\223\066\052\001

\112\174\315\340\020\303\224\110\220\241\235\207\350\165\324\040
\317\207\021\065\352\360\300\167\047\302\122\366\055\157\207\231
\047\265\371\200\376\356\106\252\377\366\075\305\277\140\252\064
\141\065\053\363\002\001\212\112\234\012\042\141\376\231\013\005
\131\362\204\205\252\254\220\067\037\367\237\024\350\323\176\275
\004\106\077\155\366\340\334\102\116\201\374\135\340\232\126\161
\230\142\117\343\136\374\171\371\313\314\305\270\134\005\061\310
\142\366\251\157\377\153\343\360\166\323\352\276\347\101\001\367
\014\247\104\123\051\340\335\357\331\153\054\130\310\327\230\342
\035\344\051\263\213\345\154\166\311\143\203\155\032\171\156\163
\114\340\300\313
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "DigiNotar Root CA G2"
Issuer: 1.2.840.113549.1.9.1=info@diginotar.nl,CN=DigiNotar Root CA G2,O=DigiNotar,C=NL
Serial Number:0a:82:bd:1e:14:4e:88:14:d7:5b:1a:55:27:be:bf:3e
Subject: 1.2.840.113549.1.9.1=info@diginotar.nl,CN=DigiNotar Root CA G2,O=DigiNotar,C=NL
Not Valid Before: Fri Jul 03 13:59:02 2009
Not Valid After: Tue Jul 03 13:59:02 2029
Fingerprint (MD5): c2:96:e0:e4:97:2c:aa:61:c4:9b:9b:77:18:38:5c:9e
Fingerprint (SHA1): 43:d9:bc:b5:68:e0:39:d0:73:a7:4a:71:d8:51:1f:74:76:08:9c:c3
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiNotar Root CA G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\103\331\274\265\150\340\071\320\163\247\112\161\330\121\037\164
\166\010\234\303
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\302\226\340\344\227\054\252\141\304\233\233\167\030\070\134\236
END
CKA_ISSUER MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\022\060\020\006\003\125\004\012\023\011\104\151\147\151\116\157
\164\141\162\061\035\060\033\006\003\125\004\003\023\024\104\151
\147\151\116\157\164\141\162\040\122\157\157\164\040\103\101\040
\107\062\061\040\060\036\006\011\052\206\110\206\367\015\001\011
\001\026\021\151\156\146\157\100\144\151\147\151\156\157\164\141
\162\056\156\154
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\012\202\275\036\024\116\210\024\327\133\032\125\047\276

\277\076
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Federal Common Policy CA"
Issuer: CN=Federal Common Policy CA,OU=FPKI,O=U.S. Government,C=US
Serial Number: 304 (0x130)
Subject: CN=Federal Common Policy CA,OU=FPKI,O=U.S. Government,C=US
Not Valid Before: Wed Dec 01 16:45:27 2010
Not Valid After: Sun Dec 01 16:45:27 2030
Fingerprint (MD5): 8c:42:b6:36:0d:d0:24:ce:4c:b1:ba:06:d2:6a:6b:c9
Fingerprint (SHA1): 90:5f:94:2f:d9:f2:8f:67:9b:37:81:80:fd:4f:84:63:47:f6:45:c1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Federal Common Policy CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\131\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\030\060\026\006\003\125\004\012\023\017\125\056\123\056\040\107
\157\166\145\162\156\155\145\156\164\061\015\060\013\006\003\125
\004\013\023\004\106\120\113\111\061\041\060\037\006\003\125\004
\003\023\030\106\145\144\145\162\141\154\040\103\157\155\155\157
\156\040\120\157\154\151\143\171\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\131\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\030\060\026\006\003\125\004\012\023\017\125\056\123\056\040\107
\157\166\145\162\156\155\145\156\164\061\015\060\013\006\003\125
\004\013\023\004\106\120\113\111\061\041\060\037\006\003\125\004
\003\023\030\106\145\144\145\162\141\154\040\103\157\155\155\157
\156\040\120\157\154\151\143\171\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\001\060
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\140\060\202\003\110\240\003\002\001\002\002\002\001
\060\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000
\060\131\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\030\060\026\006\003\125\004\012\023\017\125\056\123\056\040\107
\157\166\145\162\156\155\145\156\164\061\015\060\013\006\003\125

\004\013\023\004\106\120\113\111\061\041\060\037\006\003\125\004
\003\023\030\106\145\144\145\162\141\154\040\103\157\155\155\157
\156\040\120\157\154\151\143\171\040\103\101\060\036\027\015\061
\060\061\062\060\061\061\066\064\065\062\067\132\027\015\063\060
\061\062\060\061\061\066\064\065\062\067\132\060\131\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\030\060\026\006\003
\125\004\012\023\017\125\056\123\056\040\107\157\166\145\162\156
\155\145\156\164\061\015\060\013\006\003\125\004\013\023\004\106
\120\113\111\061\041\060\037\006\003\125\004\003\023\030\106\145
\144\145\162\141\154\040\103\157\155\155\157\156\040\120\157\154
\151\143\171\040\103\101\060\202\001\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202
\001\012\002\202\001\001\000\330\165\373\065\026\064\132\101\277
\132\257\134\060\004\024\034\255\170\104\265\352\046\352\165\141
\307\315\066\171\370\174\330\275\051\121\146\131\041\343\171\253
\324\170\276\260\055\260\241\325\262\065\026\043\320\314\036\276
\016\350\253\334\303\311\326\022\327\247\162\150\030\061\270\027
\042\262\076\176\272\010\155\306\375\321\130\054\151\240\003\360
\052\243\366\077\041\045\075\337\267\062\305\216\047\263\043\245
\340\122\263\135\226\351\260\270\305\305\237\273\305\240\156\202
\100\273\305\047\005\066\111\326\046\047\151\014\064\217\317\047
\172\052\012\243\101\137\215\035\003\206\203\025\340\125\301\305
\230\054\236\354\032\162\334\110\301\076\371\204\322\204\202\301
\033\303\164\066\267\271\307\066\062\172\370\062\266\320\066\256
\042\030\061\214\120\163\041\236\376\203\073\060\210\044\343\351
\301\176\336\355\230\307\037\222\020\212\237\133\142\057\235\244
\274\325\205\157\072\375\311\123\247\040\113\252\333\040\253\041
\116\035\015\116\346\230\205\345\253\021\107\135\235\077\304\043
\300\343\024\006\156\376\235\002\003\001\000\001\243\202\001\060
\060\202\001\054\060\017\006\003\125\035\023\001\001\377\004\005
\060\003\001\001\377\060\201\351\006\010\053\006\001\005\005\007
\001\013\004\201\334\060\201\331\060\077\006\010\053\006\001\005
\005\007\060\005\206\063\150\164\164\160\072\057\057\150\164\164
\160\056\146\160\153\151\056\147\157\166\057\146\143\160\143\141
\057\143\141\103\145\162\164\163\111\163\163\165\145\144\102\171
\146\143\160\143\141\056\160\067\143\060\201\225\006\010\053\006
\001\005\005\007\060\005\206\201\210\154\144\141\160\072\057\057
\154\144\141\160\056\146\160\153\151\056\147\157\166\057\143\156
\075\106\145\144\145\162\141\154\045\062\060\103\157\155\155\157
\156\045\062\060\120\157\154\151\143\171\045\062\060\103\101\054
\157\165\075\106\120\113\111\054\157\075\125\056\123\056\045\062
\060\107\157\166\145\162\156\155\145\156\164\054\143\075\125\123
\077\143\101\103\145\162\164\151\146\151\143\141\164\145\073\142
\151\156\141\162\171\054\143\162\157\163\163\103\145\162\164\151
\146\151\143\141\164\145\120\141\151\162\073\142\151\156\141\162
\171\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\006\060\035\006\003\125\035\016\004\026\004\024\255\014\172\165
\134\345\363\230\304\171\230\016\254\050\375\227\364\347\002\374

\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003
\202\001\001\000\217\163\332\341\177\200\261\207\366\354\054\317
\321\204\143\036\366\361\210\267\232\362\021\265\357\124\255\212
\156\030\067\050\357\134\033\344\357\120\267\154\046\030\043\042
\115\035\046\107\040\351\011\234\342\160\142\161\253\021\317\221
\211\350\263\365\052\240\107\300\024\313\116\102\301\335\014\016
\033\360\207\133\354\345\167\327\252\340\124\327\105\364\205\076
\354\264\035\336\174\212\177\133\115\234\226\212\320\242\062\237
\332\154\061\014\370\244\357\176\163\350\221\334\010\172\160\132
\240\257\142\201\131\370\000\164\242\310\335\124\312\101\126\107
\275\351\300\117\355\040\335\343\245\011\337\256\050\302\374\321
\310\027\330\022\307\157\336\056\351\275\232\221\362\074\132\224
\056\221\042\200\211\241\214\130\314\203\172\046\031\165\002\245
\016\175\012\046\163\121\352\206\313\007\250\310\375\143\132\065
\233\322\257\277\117\061\110\301\204\160\333\065\173\232\031\017
\345\217\364\152\014\157\063\331\353\034\160\242\015\343\271\120
\003\141\002\377\112\354\222\244\334\055\356\052\064\223\007\267
\054\347\030\217
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Federal Common Policy CA"
Issuer: CN=Federal Common Policy CA,OU=FPKI,O=U.S. Government,C=US
Serial Number: 304 (0x130)
Subject: CN=Federal Common Policy CA,OU=FPKI,O=U.S. Government,C=US
Not Valid Before: Wed Dec 01 16:45:27 2010
Not Valid After: Sun Dec 01 16:45:27 2030
Fingerprint (MD5): 8c:42:b6:36:0d:d0:24:ce:4c:b1:ba:06:d2:6a:6b:c9
Fingerprint (SHA1): 90:5f:94:2f:d9:f2:8f:67:9b:37:81:80:fd:4f:84:63:47:f6:45:c1
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Federal Common Policy CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\220\137\224\057\331\362\217\147\233\067\201\200\375\117\204\143
\107\366\105\301
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\214\102\266\066\015\320\044\316\114\261\272\006\322\152\153\311
END
CKA_ISSUER MULTILINE_OCTAL
\060\131\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\030\060\026\006\003\125\004\012\023\017\125\056\123\056\040\107
\157\166\145\162\156\155\145\156\164\061\015\060\013\006\003\125

\004\013\023\004\106\120\113\111\061\041\060\037\006\003\125\004
\003\023\030\106\145\144\145\162\141\154\040\103\157\155\155\157
\156\040\120\157\154\151\143\171\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\001\060
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Autoridad de Certificacion Raiz del Estado Venezolano"
Issuer: 1.2.840.113549.1.9.1=acraiz@suscerte.gob.ve,OU=Superintendencia de Servicios de Certificacion Electronica,O=Sistema Nacional de Certificacion Electronica,ST=Distrito Capital,L=Caracas,C=VE,CN=Autoridad de Certificacion Raiz del Estado Venezolano
Serial Number: 10 (0xa)
Subject: 1.2.840.113549.1.9.1=acraiz@suscerte.gob.ve,OU=Superintendencia de Servicios de Certificacion Electronica,O=Sistema Nacional de Certificacion Electronica,ST=Distrito Capital,L=Caracas,C=VE,CN=Autoridad de Certificacion Raiz del Estado Venezolano
Not Valid Before: Tue Dec 28 16:41:36 2010
Not Valid After: Mon Dec 23 23:59:59 2030
Fingerprint (MD5): 96:14:69:08:a8:36:59:d7:a0:35:14:89:58:50:5b:ab
Fingerprint (SHA1): 39:8e:be:9c:0f:46:c0:79:c3:c7:af:e0:7a:2f:dd:9f:ae:5f:8a:5c
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Raiz del Estado Venezolano"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\202\001\036\061\076\060\074\006\003\125\004\003\023\065\101
\165\164\157\162\151\144\141\144\040\144\145\040\103\145\162\164
\151\146\151\143\141\143\151\157\156\040\122\141\151\172\040\144
\145\154\040\105\163\164\141\144\157\040\126\145\156\145\172\157
\154\141\156\157\061\013\060\011\006\003\125\004\006\023\002\126
\105\061\020\060\016\006\003\125\004\007\023\007\103\141\162\141
\143\141\163\061\031\060\027\006\003\125\004\010\023\020\104\151
\163\164\162\151\164\157\040\103\141\160\151\164\141\154\061\066
\060\064\006\003\125\004\012\023\055\123\151\163\164\145\155\141
\040\116\141\143\151\157\156\141\154\040\144\145\040\103\145\162
\164\151\146\151\143\141\143\151\157\156\040\105\154\145\143\164
\162\157\156\151\143\141\061\103\060\101\006\003\125\004\013\023
\072\123\165\160\145\162\151\156\164\145\156\144\145\156\143\151
\141\040\144\145\040\123\145\162\166\151\143\151\157\163\040\144
\145\040\103\145\162\164\151\146\151\143\141\143\151\157\156\040
\105\154\145\143\164\162\157\156\151\143\141\061\045\060\043\006

\011\052\206\110\206\367\015\001\011\001\026\026\141\143\162\141
\151\172\100\163\165\163\143\145\162\164\145\056\147\157\142\056
\166\145
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\202\001\036\061\076\060\074\006\003\125\004\003\023\065\101
\165\164\157\162\151\144\141\144\040\144\145\040\103\145\162\164
\151\146\151\143\141\143\151\157\156\040\122\141\151\172\040\144
\145\154\040\105\163\164\141\144\157\040\126\145\156\145\172\157
\154\141\156\157\061\013\060\011\006\003\125\004\006\023\002\126
\105\061\020\060\016\006\003\125\004\007\023\007\103\141\162\141
\143\141\163\061\031\060\027\006\003\125\004\010\023\020\104\151
\163\164\162\151\164\157\040\103\141\160\151\164\141\154\061\066
\060\064\006\003\125\004\012\023\055\123\151\163\164\145\155\141
\040\116\141\143\151\157\156\141\154\040\144\145\040\103\145\162
\164\151\146\151\143\141\143\151\157\156\040\105\154\145\143\164
\162\157\156\151\143\141\061\103\060\101\006\003\125\004\013\023
\072\123\165\160\145\162\151\156\164\145\156\144\145\156\143\151
\141\040\144\145\040\123\145\162\166\151\143\151\157\163\040\144
\145\040\103\145\162\164\151\146\151\143\141\143\151\157\156\040
\105\154\145\143\164\162\157\156\151\143\141\061\045\060\043\006
\011\052\206\110\206\367\015\001\011\001\026\026\141\143\162\141
\151\172\100\163\165\163\143\145\162\164\145\056\147\157\142\056
\166\145
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\012
END
CKA_VALUE MULTILINE_OCTAL
\060\202\011\230\060\202\007\200\240\003\002\001\002\002\001\012
\060\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060
\202\001\036\061\076\060\074\006\003\125\004\003\023\065\101\165
\164\157\162\151\144\141\144\040\144\145\040\103\145\162\164\151
\146\151\143\141\143\151\157\156\040\122\141\151\172\040\144\145
\154\040\105\163\164\141\144\157\040\126\145\156\145\172\157\154
\141\156\157\061\013\060\011\006\003\125\004\006\023\002\126\105
\061\020\060\016\006\003\125\004\007\023\007\103\141\162\141\143
\141\163\061\031\060\027\006\003\125\004\010\023\020\104\151\163
\164\162\151\164\157\040\103\141\160\151\164\141\154\061\066\060
\064\006\003\125\004\012\023\055\123\151\163\164\145\155\141\040
\116\141\143\151\157\156\141\154\040\144\145\040\103\145\162\164
\151\146\151\143\141\143\151\157\156\040\105\154\145\143\164\162
\157\156\151\143\141\061\103\060\101\006\003\125\004\013\023\072
\123\165\160\145\162\151\156\164\145\156\144\145\156\143\151\141
\040\144\145\040\123\145\162\166\151\143\151\157\163\040\144\145
\040\103\145\162\164\151\146\151\143\141\143\151\157\156\040\105
\154\145\143\164\162\157\156\151\143\141\061\045\060\043\006\011

\052\206\110\206\367\015\001\011\001\026\026\141\143\162\141\151
\172\100\163\165\163\143\145\162\164\145\056\147\157\142\056\166
\145\060\036\027\015\061\060\061\062\062\070\061\066\064\061\063
\066\132\027\015\063\060\061\062\062\063\062\063\065\071\065\071
\132\060\202\001\036\061\076\060\074\006\003\125\004\003\023\065
\101\165\164\157\162\151\144\141\144\040\144\145\040\103\145\162
\164\151\146\151\143\141\143\151\157\156\040\122\141\151\172\040
\144\145\154\040\105\163\164\141\144\157\040\126\145\156\145\172
\157\154\141\156\157\061\013\060\011\006\003\125\004\006\023\002
\126\105\061\020\060\016\006\003\125\004\007\023\007\103\141\162
\141\143\141\163\061\031\060\027\006\003\125\004\010\023\020\104
\151\163\164\162\151\164\157\040\103\141\160\151\164\141\154\061
\066\060\064\006\003\125\004\012\023\055\123\151\163\164\145\155
\141\040\116\141\143\151\157\156\141\154\040\144\145\040\103\145
\162\164\151\146\151\143\141\143\151\157\156\040\105\154\145\143
\164\162\157\156\151\143\141\061\103\060\101\006\003\125\004\013
\023\072\123\165\160\145\162\151\156\164\145\156\144\145\156\143
\151\141\040\144\145\040\123\145\162\166\151\143\151\157\163\040
\144\145\040\103\145\162\164\151\146\151\143\141\143\151\157\156
\040\105\154\145\143\164\162\157\156\151\143\141\061\045\060\043
\006\011\052\206\110\206\367\015\001\011\001\026\026\141\143\162
\141\151\172\100\163\165\163\143\145\162\164\145\056\147\157\142
\056\166\145\060\202\002\042\060\015\006\011\052\206\110\206\367
\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012\002
\202\002\001\000\301\073\357\023\122\361\231\126\343\264\154\005
\341\032\151\026\141\046\206\170\257\016\374\345\100\005\012\343
\331\070\005\114\250\324\265\300\306\052\317\057\171\253\241\244
\120\357\065\021\037\356\202\044\027\374\243\034\253\376\007\006
\177\067\177\007\130\133\023\331\177\000\137\053\260\117\332\237
\311\260\130\063\141\341\117\320\025\316\056\153\350\044\214\345
\045\276\205\133\355\114\077\001\201\216\346\231\030\122\046\131
\233\022\230\145\034\225\276\165\231\026\014\144\104\341\367\362
\171\010\264\341\107\127\261\112\334\107\102\233\160\113\072\332
\314\321\151\221\006\077\316\150\373\371\206\115\003\334\203\242
\272\025\026\376\254\311\266\016\147\263\261\064\072\073\316\104
\213\243\216\110\356\003\060\267\032\226\147\305\144\045\231\002
\363\352\164\165\176\246\222\025\023\321\000\025\353\206\134\364
\173\031\210\177\350\056\021\044\136\070\153\201\235\274\160\136
\367\061\162\052\057\035\137\310\316\044\074\175\162\070\230\277
\107\275\247\063\002\373\017\344\235\352\146\140\043\115\371\117
\033\207\135\315\277\270\354\027\174\252\353\116\066\211\017\077
\011\247\240\335\172\313\016\223\022\040\220\245\321\214\377\205
\053\174\336\336\176\015\120\204\106\204\144\155\312\361\043\053
\336\177\332\015\066\267\243\336\142\046\025\032\352\372\256\344
\270\366\175\021\001\244\222\323\362\311\157\245\363\150\000\036
\322\151\216\331\353\347\022\254\110\053\014\266\231\224\115\075
\360\025\133\131\167\300\051\326\211\114\053\310\025\072\072\306
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\223\347\346\137\070\041\137\357\305\211\326\054\207\366\212\373
\066\173\133\056\274\220\241\356\314\114\065\126\251\032\267\220
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\327\060\022\006\003\125\035\023\001\001\377\004\010\060\006\001
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\202\017\163\165\163\143\145\162\164\145\056\147\157\142\056\166
\145\240\033\006\005\140\206\136\002\002\240\022\014\020\122\111
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\001\250\375\166\120\122\223\355\230\301\115\256\323\060\202\001
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\061\076\060\074\006\003\125\004\003\023\065\101\165\164\157\162
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\143\141\143\151\157\156\040\105\154\145\143\164\162\157\156\151
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\040\123\145\162\166\151\143\151\157\163\040\144\145\040\103\145
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\163\143\145\162\164\145\056\147\157\142\056\166\145\060\067\006
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\147\157\142\056\166\145\060\100\006\003\125\035\040\004\071\060
\067\060\065\006\005\140\206\136\001\002\060\054\060\052\006\010
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\057\167\167\167\056\163\165\163\143\145\162\164\145\056\147\157
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\367\015\001\001\014\005\000\003\202\002\001\000\034\131\020\345
\136\244\121\301\107\273\145\262\013\125\342\057\251\243\047\274
\341\074\212\307\154\003\126\243\251\051\242\233\212\225\330\037
\367\266\022\140\026\276\172\364\375\003\201\117\375\201\201\252
\117\201\160\036\056\357\300\222\022\173\273\017\205\210\304\371
\035\101\265\272\044\052\303\050\046\023\312\371\000\373\327\303
\134\371\150\351\033\301\030\042\311\242\154\144\303\370\071\303
\116\041\335\326\302\336\345\266\054\311\134\070\360\336\136\152
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\123\373\050\013\357\355\177\260\217\164\042\266\065\127\200\250
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\110\105\243\207\111\243\170\220\335\066\102\177\330\166\157\375
\155\203\001\306\371\177\230\040\177\226\056\042\140\253\242\047
\300\260\065\044\320\311\277\063\231\042\123\016\156\037\142\114
\046\374\044\063\312\301\003\314\251\027\141\143\063\044\314\150
\100\357\257\242\342\205\303\210\060\323\105\033\356\126\352\126
\012\017\012\107\233\060\131\330\111\321\060\220\014\047\052\046
\010\050\134\062\037\047\327\255\013\111\345\027\121\143\317\346
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\322\144\177\333\253\114\346\103\306\344\205\215\152\376\215\376
\273\224\125\036\221\123\047\010\323\272\147\075\072\241\311\301
\305\024\272\371\103\134\305\216\041\214\202\242\375\052\062\045
\325\026\214\025\126\300\230\374\056\262\216\031\244\026\161\303
\113\335\161\376\161\354\042\035\360\301\214\230\201\207\264\277
\002\270\304\060\061\107\302\300\260\257\173\063\143\012\335\254
\105\233\301\314\200\207\364\331\230\136\234\206\376\232\004\377
\146\112\374\173\141\124\276\127\143\005\007\306\247\001\165\131
\344\156\071\073\000\364\252\235\363\237\210\277\317\321\045\053
\337\177\163\355\026\206\251\220\145\017\160\051
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Autoridad de Certificacion Raiz del Estado Venezolano"
Issuer: 1.2.840.113549.1.9.1=acraiz@suscerte.gob.ve,OU=Superintendencia de Servicios de Certificacion

Electronica,O=Sistema Nacional de Certificacion Electronica,ST=Distrito Capital,L=Caracas,C=VE,CN=Autoridad de Certificacion Raiz del Estado Venezolano
Serial Number: 10 (0xa)
Subject: 1.2.840.113549.1.9.1=acraiz@suscerte.gob.ve,OU=Superintendencia de Servicios de Certificacion Electronica,O=Sistema Nacional de Certificacion Electronica,ST=Distrito Capital,L=Caracas,C=VE,CN=Autoridad de Certificacion Raiz del Estado Venezolano
Not Valid Before: Tue Dec 28 16:41:36 2010
Not Valid After: Mon Dec 23 23:59:59 2030
Fingerprint (MD5): 96:14:69:08:a8:36:59:d7:a0:35:14:89:58:50:5b:ab
Fingerprint (SHA1): 39:8e:be:9c:0f:46:c0:79:c3:c7:af:e0:7a:2f:dd:9f:ae:5f:8a:5c
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Raiz del Estado Venezolano"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\071\216\276\234\017\106\300\171\303\307\257\340\172\057\335\237
\256\137\212\134
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\226\024\151\010\250\066\131\327\240\065\024\211\130\120\133\253
END
CKA_ISSUER MULTILINE_OCTAL
\060\202\001\036\061\076\060\074\006\003\125\004\003\023\065\101
\165\164\157\162\151\144\141\144\040\144\145\040\103\145\162\164
\151\146\151\143\141\143\151\157\156\040\122\141\151\172\040\144
\145\154\040\105\163\164\141\144\157\040\126\145\156\145\172\157
\154\141\156\157\061\013\060\011\006\003\125\004\006\023\002\126
\105\061\020\060\016\006\003\125\004\007\023\007\103\141\162\141
\143\141\163\061\031\060\027\006\003\125\004\010\023\020\104\151
\163\164\162\151\164\157\040\103\141\160\151\164\141\154\061\066
\060\064\006\003\125\004\012\023\055\123\151\163\164\145\155\141
\040\116\141\143\151\157\156\141\154\040\144\145\040\103\145\162
\164\151\146\151\143\141\143\151\157\156\040\105\154\145\143\164
\162\157\156\151\143\141\061\103\060\101\006\003\125\004\013\023
\072\123\165\160\145\162\151\156\164\145\156\144\145\156\143\151
\141\040\144\145\040\123\145\162\166\151\143\151\157\163\040\144
\145\040\103\145\162\164\151\146\151\143\141\143\151\157\156\040
\105\154\145\143\164\162\157\156\151\143\141\061\045\060\043\006
\011\052\206\110\206\367\015\001\011\001\026\026\141\143\162\141
\151\172\100\163\165\163\143\145\162\164\145\056\147\157\142\056
\166\145
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\012
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "China Internet Network Information Center EV Certificates Root"
Issuer: CN=China Internet Network Information Center EV Certificates Root,O=China Internet Network Information Center,C=CN
Serial Number:48:9f:00:01
Subject: CN=China Internet Network Information Center EV Certificates Root,O=China Internet Network Information Center,C=CN
Not Valid Before: Tue Aug 31 07:11:25 2010
Not Valid After: Sat Aug 31 07:11:25 2030
Fingerprint (MD5): 55:5d:63:00:97:bd:6a:97:f5:67:ab:4b:fb:6e:63:15
Fingerprint (SHA1): 4f:99:aa:93:fb:2b:d1:37:26:a1:99:4a:ce:7f:f0:05:f2:93:5d:1e
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "China Internet Network Information Center EV Certificates Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\212\061\013\060\011\006\003\125\004\006\023\002\103\116
\061\062\060\060\006\003\125\004\012\014\051\103\150\151\156\141
\040\111\156\164\145\162\156\145\164\040\116\145\164\167\157\162
\153\040\111\156\146\157\162\155\141\164\151\157\156\040\103\145
\156\164\145\162\061\107\060\105\006\003\125\004\003\014\076\103
\150\151\156\141\040\111\156\164\145\162\156\145\164\040\116\145
\164\167\157\162\153\040\111\156\146\157\162\155\141\164\151\157
\156\040\103\145\156\164\145\162\040\105\126\040\103\145\162\164
\151\146\151\143\141\164\145\163\040\122\157\157\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\212\061\013\060\011\006\003\125\004\006\023\002\103\116
\061\062\060\060\006\003\125\004\012\014\051\103\150\151\156\141
\040\111\156\164\145\162\156\145\164\040\116\145\164\167\157\162
\153\040\111\156\146\157\162\155\141\164\151\157\156\040\103\145
\156\164\145\162\061\107\060\105\006\003\125\004\003\014\076\103
\150\151\156\141\040\111\156\164\145\162\156\145\164\040\116\145
\164\167\157\162\153\040\111\156\146\157\162\155\141\164\151\157
\156\040\103\145\156\164\145\162\040\105\126\040\103\145\162\164
\151\146\151\143\141\164\145\163\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\110\237\000\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\367\060\202\002\337\240\003\002\001\002\002\004\110

\237\000\001\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\060\201\212\061\013\060\011\006\003\125\004\006\023\002
\103\116\061\062\060\060\006\003\125\004\012\014\051\103\150\151
\156\141\040\111\156\164\145\162\156\145\164\040\116\145\164\167
\157\162\153\040\111\156\146\157\162\155\141\164\151\157\156\040
\103\145\156\164\145\162\061\107\060\105\006\003\125\004\003\014
\076\103\150\151\156\141\040\111\156\164\145\162\156\145\164\040
\116\145\164\167\157\162\153\040\111\156\146\157\162\155\141\164
\151\157\156\040\103\145\156\164\145\162\040\105\126\040\103\145
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\036\027\015\061\060\060\070\063\061\060\067\061\061\062\065\132
\027\015\063\060\060\070\063\061\060\067\061\061\062\065\132\060
\201\212\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\062\060\060\006\003\125\004\012\014\051\103\150\151\156\141\040
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\040\111\156\146\157\162\155\141\164\151\157\156\040\103\145\156
\164\145\162\061\107\060\105\006\003\125\004\003\014\076\103\150
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\167\157\162\153\040\111\156\146\157\162\155\141\164\151\157\156
\040\103\145\156\164\145\162\040\105\126\040\103\145\162\164\151
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\356\275\073\170\252\144\103\101\365\120\337\224\362\056\262\215
\112\216\106\124\322\041\022\310\071\062\102\006\351\203\325\237
\122\355\345\147\003\073\124\301\214\231\231\314\351\300\017\377
\015\331\204\021\262\270\321\313\133\334\036\371\150\061\144\341
\233\372\164\353\150\271\040\225\367\306\017\215\107\254\132\006
\335\141\253\342\354\330\237\027\055\234\312\074\065\227\125\161
\315\103\205\261\107\026\365\054\123\200\166\317\323\000\144\275
\100\231\335\314\330\333\304\237\326\023\137\101\203\213\371\015
\207\222\126\064\154\032\020\013\027\325\132\034\227\130\204\074
\204\032\056\134\221\064\156\031\137\177\027\151\305\145\357\153
\041\306\325\120\072\277\141\271\005\215\357\157\064\072\262\157
\024\143\277\026\073\233\251\052\375\267\053\070\146\006\305\054
\342\252\147\036\105\247\215\004\146\102\366\217\053\357\210\040
\151\217\062\214\024\163\332\053\206\221\143\042\232\362\247\333
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\000\001\243\143\060\141\060\037\006\003\125\035\043\004\030\060
\026\200\024\174\162\113\071\307\300\333\142\245\117\233\252\030
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\377\004\005\060\003\001\001\377\060\016\006\003\125\035\017\001
\001\377\004\004\003\002\001\006\060\035\006\003\125\035\016\004
\026\004\024\174\162\113\071\307\300\333\142\245\117\233\252\030
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\014\200\352\363\355\043\146\165\175\305\323\041\147\171\321\163
\305\265\003\267\130\254\014\124\057\306\126\023\017\061\332\006
\347\145\073\035\157\066\333\310\035\371\375\200\006\312\243\075
\146\026\250\235\114\026\175\300\225\106\265\121\344\342\037\327
\352\006\115\143\215\226\214\357\347\063\127\102\072\353\214\301
\171\310\115\166\175\336\366\261\267\201\340\240\371\241\170\106
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\143\376\006\256\302\244\134\152\133\062\210\305\307\063\205\254
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\135\074\170\036\250\225\202\051\120\321\321\026\272\357\301\276
\172\331\264\330\314\036\114\106\341\167\261\061\253\275\052\310
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\256\050\245\273\077\170\171\353\163\263\012\015\375\276\311\367
\126\254\366\267\355\057\233\041\051\307\070\266\225\304\004\362
\303\055\375\024\052\220\231\271\007\314\237
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "China Internet Network Information Center EV Certificates Root"
Issuer: CN=China Internet Network Information Center EV Certificates Root,O=China Internet Network Information Center,C=CN
Serial Number:48:9f:00:01
Subject: CN=China Internet Network Information Center EV Certificates Root,O=China Internet Network Information Center,C=CN
Not Valid Before: Tue Aug 31 07:11:25 2010
Not Valid After: Sat Aug 31 07:11:25 2030
Fingerprint (MD5): 55:5d:63:00:97:bd:6a:97:f5:67:ab:4b:fb:6e:63:15
Fingerprint (SHA1): 4f:99:aa:93:fb:2b:d1:37:26:a1:99:4a:ce:7f:f0:05:f2:93:5d:1e
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "China Internet Network Information Center EV Certificates Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\117\231\252\223\373\053\321\067\046\241\231\112\316\177\360\005
\362\223\135\036
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\125\135\143\000\227\275\152\227\365\147\253\113\373\156\143\025
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\212\061\013\060\011\006\003\125\004\006\023\002\103\116
\061\062\060\060\006\003\125\004\012\014\051\103\150\151\156\141
\040\111\156\164\145\162\156\145\164\040\116\145\164\167\157\162
\153\040\111\156\146\157\162\155\141\164\151\157\156\040\103\145

\156\164\145\162\061\107\060\105\006\003\125\004\003\014\076\103
\150\151\156\141\040\111\156\164\145\162\156\145\164\040\116\145
\164\167\157\162\153\040\111\156\146\157\162\155\141\164\151\157
\156\040\103\145\156\164\145\162\040\105\126\040\103\145\162\164
\151\146\151\143\141\164\145\163\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\110\237\000\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Verizon Global Root CA"
Issuer: CN=Verizon Global Root CA,OU=OmniRoot,O=Verizon Business,C=US
Serial Number: 1 (0x1)
Subject: CN=Verizon Global Root CA,OU=OmniRoot,O=Verizon Business,C=US
Not Valid Before: Thu Jul 30 14:27:04 2009
Not Valid After: Sun Jul 30 14:27:04 2034
Fingerprint (MD5): f4:c3:f3:e9:53:c2:94:65:27:3d:52:89:f1:8e:5b:1c
Fingerprint (SHA1): 91:21:98:ee:f2:3d:ca:c4:09:39:31:2f:ee:97:dd:56:0b:ae:49:b1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verizon Global Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\134\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\031\060\027\006\003\125\004\012\014\020\126\145\162\151\172\157
\156\040\102\165\163\151\156\145\163\163\061\021\060\017\006\003
\125\004\013\014\010\117\155\156\151\122\157\157\164\061\037\060
\035\006\003\125\004\003\014\026\126\145\162\151\172\157\156\040
\107\154\157\142\141\154\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\134\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\031\060\027\006\003\125\004\012\014\020\126\145\162\151\172\157
\156\040\102\165\163\151\156\145\163\163\061\021\060\017\006\003
\125\004\013\014\010\117\155\156\151\122\157\157\164\061\037\060
\035\006\003\125\004\003\014\026\126\145\162\151\172\157\156\040
\107\154\157\142\141\154\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001

END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\165\060\202\002\135\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\134\061\013\060\011\006\003\125\004\006\023\002\125\123\061\031
\060\027\006\003\125\004\012\014\020\126\145\162\151\172\157\156
\040\102\165\163\151\156\145\163\163\061\021\060\017\006\003\125
\004\013\014\010\117\155\156\151\122\157\157\164\061\037\060\035
\006\003\125\004\003\014\026\126\145\162\151\172\157\156\040\107
\154\157\142\141\154\040\122\157\157\164\040\103\101\060\036\027
\015\060\071\060\067\063\060\061\064\062\067\060\064\132\027\015
\063\064\060\067\063\060\061\064\062\067\060\064\132\060\134\061
\013\060\011\006\003\125\004\006\023\002\125\123\061\031\060\027
\006\003\125\004\012\014\020\126\145\162\151\172\157\156\040\102
\165\163\151\156\145\163\163\061\021\060\017\006\003\125\004\013
\014\010\117\155\156\151\122\157\157\164\061\037\060\035\006\003
\125\004\003\014\026\126\145\162\151\172\157\156\040\107\154\157
\142\141\154\040\122\157\157\164\040\103\101\060\202\001\042\060
\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202
\001\017\000\060\202\001\012\002\202\001\001\000\212\000\014\160
\035\277\353\064\206\303\231\105\065\036\177\103\367\253\157\044
\055\315\031\302\020\273\260\312\051\133\251\040\253\253\162\054
\304\342\002\071\155\202\270\305\021\352\370\373\263\236\142\370
\063\036\260\037\311\343\366\067\333\004\310\073\143\117\066\342
\205\244\045\035\307\151\037\004\275\150\105\023\226\007\037\224
\120\365\076\305\047\124\236\300\111\127\104\216\007\143\324\246
\256\355\042\231\314\115\226\151\004\023\156\166\211\237\164\026
\224\371\035\124\275\242\271\322\203\001\042\014\115\104\200\252
\376\065\211\047\045\247\206\211\306\325\032\222\343\217\305\225
\240\024\162\232\350\126\305\002\125\034\227\371\040\056\320\365
\074\023\031\132\366\341\371\013\003\202\151\247\214\267\326\157
\234\126\076\235\350\052\011\140\155\113\346\373\213\231\024\367
\064\117\145\131\200\215\271\127\310\242\065\041\330\210\161\126
\135\356\202\127\055\046\220\030\237\232\234\234\217\357\324\305
\143\247\124\175\107\221\207\175\032\022\250\033\030\157\251\157
\261\047\272\344\004\164\316\067\036\177\146\305\002\003\001\000
\001\243\102\060\100\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\035\006\003\125\035\016\004\026\004
\024\114\070\021\270\230\000\133\132\053\160\076\252\170\344\325
\147\147\147\247\176\060\015\006\011\052\206\110\206\367\015\001
\001\013\005\000\003\202\001\001\000\001\137\240\261\006\001\364
\171\327\145\030\140\076\317\171\240\272\302\043\117\043\337\207
\226\137\201\016\070\025\056\134\310\002\150\051\040\374\213\356
\245\212\030\201\144\134\230\065\176\071\060\202\244\202\212\120
\265\272\303\350\132\326\250\236\342\303\027\333\333\304\353\260
\012\040\015\351\236\343\377\140\124\107\361\073\235\324\050\074
\242\256\243\373\252\213\202\042\052\065\207\220\270\034\131\107

\220\325\235\056\372\111\343\145\250\066\353\307\344\034\150\334
\263\061\154\253\116\316\044\200\025\310\020\131\020\021\162\115
\172\234\230\234\304\374\141\340\263\262\235\116\240\306\302\131
\253\030\326\242\125\105\354\051\252\045\067\326\116\112\075\013
\100\301\344\223\344\374\315\221\013\370\346\253\314\263\166\304
\142\277\031\355\206\266\171\303\051\124\124\274\231\175\106\127
\317\246\317\364\124\052\232\003\145\107\001\241\102\052\313\045
\107\156\174\136\000\113\221\331\371\033\020\006\160\371\102\025
\246\137\252\327\100\036\375\311\110\235\227\201\352\134\150\302
\240\347\211\241\123\115\277\307\343
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Verizon Global Root CA"
Issuer: CN=Verizon Global Root CA,OU=OmniRoot,O=Verizon Business,C=US
Serial Number: 1 (0x1)
Subject: CN=Verizon Global Root CA,OU=OmniRoot,O=Verizon Business,C=US
Not Valid Before: Thu Jul 30 14:27:04 2009
Not Valid After: Sun Jul 30 14:27:04 2034
Fingerprint (MD5): f4:c3:f3:e9:53:c2:94:65:27:3d:52:89:f1:8e:5b:1c
Fingerprint (SHA1): 91:21:98:ee:f2:3d:ca:c4:09:39:31:2f:ee:97:dd:56:0b:ae:49:b1
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verizon Global Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\221\041\230\356\362\075\312\304\011\071\061\057\356\227\335\126
\013\256\111\261
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\364\303\363\351\123\302\224\145\047\075\122\211\361\216\133\034
END
CKA_ISSUER MULTILINE_OCTAL
\060\134\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\031\060\027\006\003\125\004\012\014\020\126\145\162\151\172\157
\156\040\102\165\163\151\156\145\163\163\061\021\060\017\006\003
\125\004\013\014\010\117\155\156\151\122\157\157\164\061\037\060
\035\006\003\125\004\003\014\026\126\145\162\151\172\157\156\040
\107\154\157\142\141\154\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "SwissSign Silver Root CA - G3"
Issuer: CN=SwissSign Silver Root CA - G3,O=SwissSign AG,C=CH
Serial Number:aa:88:b0:5a:0b:b1:76:9b
Subject: CN=SwissSign Silver Root CA - G3,O=SwissSign AG,C=CH
Not Valid Before: Tue Aug 04 13:19:14 2009
Not Valid After: Tue Aug 04 13:19:14 2037
Fingerprint (MD5): 40:e4:e0:25:6e:96:e0:01:a1:c8:4c:43:4c:f9:dc:33
Fingerprint (SHA1): 8d:08:fc:43:c0:77:0c:a8:4f:4d:cc:b2:d4:1a:5d:95:6d:78:6d:c4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Silver Root CA - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\114\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\046\060\044\006\003\125\004\003\023
\035\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145
\162\040\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\046\060\044\006\003\125\004\003\023
\035\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145
\162\040\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\252\210\260\132\013\261\166\233
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\176\060\202\003\146\240\003\002\001\002\002\011\000
\252\210\260\132\013\261\166\233\060\015\006\011\052\206\110\206
\367\015\001\001\013\005\000\060\114\061\013\060\011\006\003\125
\004\006\023\002\103\110\061\025\060\023\006\003\125\004\012\023
\014\123\167\151\163\163\123\151\147\156\040\101\107\061\046\060
\044\006\003\125\004\003\023\035\123\167\151\163\163\123\151\147
\156\040\123\151\154\166\145\162\040\122\157\157\164\040\103\101
\040\055\040\107\063\060\036\027\015\060\071\060\070\060\064\061
\063\061\071\061\064\132\027\015\063\067\060\070\060\064\061\063
\061\071\061\064\132\060\114\061\013\060\011\006\003\125\004\006

\023\002\103\110\061\025\060\023\006\003\125\004\012\023\014\123
\167\151\163\163\123\151\147\156\040\101\107\061\046\060\044\006
\003\125\004\003\023\035\123\167\151\163\163\123\151\147\156\040
\123\151\154\166\145\162\040\122\157\157\164\040\103\101\040\055
\040\107\063\060\202\002\042\060\015\006\011\052\206\110\206\367
\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012\002
\202\002\001\000\276\207\233\005\346\161\174\122\157\155\354\067
\251\351\263\334\314\137\177\323\120\352\041\233\004\360\075\277
\276\216\311\245\024\026\062\020\317\231\374\354\160\255\110\066
\147\044\014\027\062\326\051\345\112\071\261\067\353\246\170\014
\154\157\031\312\116\367\121\332\032\350\372\041\070\154\225\234
\057\326\213\314\073\002\233\277\046\233\021\105\266\270\064\132
\035\246\124\110\122\310\235\170\161\316\110\112\314\247\170\203
\334\150\253\146\036\167\007\323\066\030\010\327\324\155\140\370
\360\171\323\063\066\011\222\143\267\004\232\365\247\226\332\105
\257\164\032\374\202\343\250\133\016\072\077\122\127\230\176\274
\234\214\301\300\262\132\337\304\176\376\014\246\124\166\203\176
\272\335\347\052\364\112\066\117\207\145\056\245\272\071\215\131
\141\051\363\323\216\044\160\214\123\233\021\245\107\007\262\165
\005\134\015\204\331\104\331\315\311\046\104\127\156\002\175\225
\001\324\253\044\206\356\075\160\373\127\372\260\051\024\320\235
\362\305\227\313\011\312\361\362\075\347\330\113\226\351\210\057
\236\107\121\212\124\145\230\110\322\022\344\124\167\014\007\346
\276\133\234\361\335\003\176\215\204\374\276\311\142\325\374\311
\072\350\211\265\137\302\005\122\141\360\234\076\354\056\115\214
\162\221\216\310\103\301\242\050\136\365\200\044\334\342\057\207
\073\123\000\345\313\360\262\174\215\171\031\240\210\315\170\370
\305\212\132\167\345\006\254\335\112\336\346\160\156\276\257\276
\365\261\253\016\010\260\333\240\077\224\305\276\022\271\274\173
\047\171\265\062\051\135\256\305\040\043\222\003\173\124\071\260
\211\042\124\155\022\343\303\170\352\072\100\375\244\223\254\351
\055\210\074\333\246\107\146\114\337\330\027\355\026\336\032\326
\327\101\146\277\035\200\361\244\340\144\021\051\136\014\047\005
\142\353\345\304\004\142\321\304\237\014\152\125\326\130\070\234
\146\017\235\373\253\124\200\231\234\354\111\326\202\237\332\105
\326\077\123\006\003\267\375\037\354\206\175\164\340\244\264\350
\062\266\252\007\043\370\357\044\101\236\143\060\170\364\124\335
\216\360\132\070\216\022\177\170\307\157\002\126\041\063\316\270
\270\255\151\125\002\003\001\000\001\243\143\060\141\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\017\006
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\035
\006\003\125\035\016\004\026\004\024\241\214\105\223\012\022\143
\013\247\127\137\062\112\175\341\041\347\267\076\146\060\037\006
\003\125\035\043\004\030\060\026\200\024\241\214\105\223\012\022
\143\013\247\127\137\062\112\175\341\041\347\267\076\146\060\015
\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202\002
\001\000\207\256\141\155\110\070\052\306\034\334\112\056\204\170
\111\300\043\052\105\270\065\115\321\005\372\271\005\063\304\144

\275\333\255\124\026\052\260\076\015\132\050\332\246\032\200\163
\014\304\101\157\257\270\064\266\167\324\133\216\035\013\213\106
\220\104\265\263\356\111\030\211\301\113\064\263\207\065\164\242
\236\105\147\355\105\161\146\266\271\241\045\163\327\302\254\210
\373\322\035\247\153\332\300\132\346\330\131\144\064\227\145\040
\061\063\003\117\316\255\011\236\256\351\302\076\030\165\264\063
\045\022\273\005\354\120\272\161\100\342\275\336\210\106\005\041
\204\213\243\053\036\353\060\060\211\277\021\365\134\104\370\221
\213\113\131\105\013\060\015\312\014\117\157\143\276\004\376\301
\355\340\207\376\310\315\126\277\345\334\216\172\324\326\051\116
\200\333\253\233\077\216\145\007\042\367\104\315\226\037\055\307
\365\011\266\230\160\377\070\334\120\025\021\204\073\177\251\360
\330\044\124\310\027\214\053\023\111\326\231\177\105\321\017\216
\277\151\162\067\123\007\364\346\256\375\133\076\171\271\006\315
\270\201\170\264\115\240\320\065\272\344\256\377\323\111\274\065
\355\143\306\263\374\343\253\141\132\005\266\013\344\377\251\052
\276\337\124\116\302\113\134\150\332\243\062\242\311\115\127\030
\123\064\131\074\146\231\327\074\002\170\247\114\161\320\277\333
\361\304\074\347\001\346\004\362\104\366\110\046\060\063\311\261
\001\031\353\002\361\314\041\372\072\002\060\027\235\310\137\200
\077\335\045\254\002\233\343\027\336\275\312\222\024\322\122\201
\123\346\352\374\060\147\062\251\142\366\223\027\025\007\061\136
\017\033\151\365\364\251\267\174\055\263\355\204\104\062\107\050
\007\073\206\151\105\251\307\066\226\220\162\164\330\022\246\163
\043\321\116\271\266\172\072\304\051\241\120\006\021\271\331\364
\046\156\142\010\022\040\026\360\001\127\027\324\005\066\147\227
\353\121\371\377\063\044\014\005\017\126\277\357\075\034\122\216
\212\336\151\017\132\037\360\325\003\061\104\263\222\306\352\165
\250\256\273\307\140\003\210\230\377\307\004\204\122\220\206\341
\264\223\251\120\057\350\353\322\066\254\060\140\247\320\003\023
\265\012
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "SwissSign Silver Root CA - G3"
Issuer: CN=SwissSign Silver Root CA - G3,O=SwissSign AG,C=CH
Serial Number:aa:88:b0:5a:0b:b1:76:9b
Subject: CN=SwissSign Silver Root CA - G3,O=SwissSign AG,C=CH
Not Valid Before: Tue Aug 04 13:19:14 2009
Not Valid After: Tue Aug 04 13:19:14 2037
Fingerprint (MD5): 40:e4:e0:25:6e:96:e0:01:a1:c8:4c:43:4c:f9:dc:33
Fingerprint (SHA1): 8d:08:fc:43:c0:77:0c:a8:4f:4d:cc:b2:d4:1a:5d:95:6d:78:6d:c4
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

```
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Silver Root CA - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\215\010\374\103\300\167\014\250\117\115\314\262\324\032\135\225
\155\170\155\304
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\100\344\340\045\156\226\340\001\241\310\114\103\114\371\334\063
END
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\046\060\044\006\003\125\004\003\023
\035\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145
\162\040\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\252\210\260\132\013\261\166\233
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "SwissSign Platinum Root CA - G3"
# Issuer: CN=SwissSign Platinum Root CA - G3,O=SwissSign AG,C=CH
# Serial Number:22:3f:a9:17:20:de:81:94
# Subject: CN=SwissSign Platinum Root CA - G3,O=SwissSign AG,C=CH
# Not Valid Before: Tue Aug 04 13:34:04 2009
# Not Valid After: Tue Aug 04 13:34:04 2037
# Fingerprint (MD5): 20:de:12:0b:a8:6e:d9:34:a8:4e:b2:0d:1e:a6:43:39
# Fingerprint (SHA1): a1:e7:c6:00:aa:41:70:e5:b7:4b:c9:4f:9b:97:03:ed:c2:61:b4:b9
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Platinum Root CA - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\050\060\046\006\003\125\004\003\023
\037\123\167\151\163\163\123\151\147\156\040\120\154\141\164\151
\156\165\155\040\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
```

\060\116\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\050\060\046\006\003\125\004\003\023
\037\123\167\151\163\163\123\151\147\156\040\120\154\141\164\151
\156\165\155\040\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\042\077\251\027\040\336\201\224
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\201\060\202\003\151\240\003\002\001\002\002\010\042
\077\251\027\040\336\201\224\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\116\061\013\060\011\006\003\125\004
\006\023\002\103\110\061\025\060\023\006\003\125\004\012\023\014
\123\167\151\163\163\123\151\147\156\040\101\107\061\050\060\046
\006\003\125\004\003\023\037\123\167\151\163\163\123\151\147\156
\040\120\154\141\164\151\156\165\155\040\122\157\157\164\040\103
\101\040\055\040\107\063\060\036\027\015\060\071\060\070\060\064
\061\063\063\064\060\064\132\027\015\063\067\060\070\060\064\061
\063\063\064\060\064\132\060\116\061\013\060\011\006\003\125\004
\006\023\002\103\110\061\025\060\023\006\003\125\004\012\023\014
\123\167\151\163\163\123\151\147\156\040\101\107\061\050\060\046
\006\003\125\004\003\023\037\123\167\151\163\163\123\151\147\156
\040\120\154\141\164\151\156\165\155\040\122\157\157\164\040\103
\101\040\055\040\107\063\060\202\002\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202
\002\012\002\202\002\001\000\224\240\357\023\033\237\104\040\033
\315\305\252\042\273\331\362\122\076\172\132\130\167\346\215\241
\053\311\334\244\363\344\263\023\224\000\142\233\034\362\103\120
\103\201\176\257\060\066\111\254\030\211\014\030\105\270\076\307
\124\155\343\330\232\131\153\212\032\045\251\266\265\015\267\175
\043\360\137\175\250\007\251\367\076\206\056\310\001\115\334\346
\066\355\035\345\067\007\151\022\113\343\203\321\004\034\044\360
\037\160\161\347\031\355\163\110\156\225\053\025\266\126\346\002
\337\126\351\233\372\352\246\356\340\302\303\272\340\314\306\310
\173\327\157\072\225\233\072\217\276\133\054\322\251\240\070\076
\326\210\341\261\142\023\216\334\253\060\147\315\250\152\246\143
\053\202\260\313\307\075\116\355\162\366\175\253\062\116\145\002
\353\017\231\164\370\034\032\050\214\016\105\000\223\054\024\237
\155\307\033\236\366\212\334\173\170\343\264\224\107\035\115\005
\155\204\172\220\124\262\236\213\165\302\200\337\207\071\077\237
\373\110\124\007\215\240\051\365\371\140\137\132\162\350\273\233
\240\102\340\010\000\064\243\025\074\023\343\326\032\153\002\262
\224\041\243\235\101\274\052\153\116\063\073\246\224\070\374\075
\307\053\063\263\056\053\006\164\254\233\020\157\305\116\105\367
\135\241\126\003\054\015\137\172\275\036\336\035\167\220\153\332
\245\055\212\114\351\337\101\364\347\113\354\175\225\102\237\114
\251\011\017\103\210\077\075\223\347\053\364\172\110\332\150\304

\335\022\200\061\032\135\044\124\046\246\044\041\263\114\255\332
\027\010\066\002\127\306\234\206\160\311\165\311\236\174\141\330
\170\346\271\350\024\151\371\034\020\050\022\135\113\165\120\272
\074\320\147\160\125\125\126\113\373\075\034\330\333\171\115\227
\337\270\236\333\027\054\325\065\007\270\120\251\367\216\367\126
\377\172\147\103\117\040\331\312\146\326\070\140\113\356\224\061
\326\015\242\110\233\377\064\151\224\306\065\365\226\210\357\252
\146\314\201\246\353\114\123\377\062\164\247\266\235\230\127\264
\272\046\251\361\063\063\142\176\072\260\003\021\127\377\334\157
\021\043\255\076\306\012\320\314\124\267\055\302\223\035\345\302
\246\214\307\330\357\123\367\002\003\001\000\001\243\143\060\141
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\035\006\003\125\035\016\004\026\004\024\126\052\077\220
\130\364\027\132\024\262\327\010\033\205\133\124\152\124\032\050
\060\037\006\003\125\035\043\004\030\060\026\200\024\126\052\077
\220\130\364\027\132\024\262\327\010\033\205\133\124\152\124\032
\050\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000
\003\202\002\001\000\154\355\212\347\103\250\171\047\233\270\317
\207\076\144\070\030\214\021\102\222\206\067\340\130\303\033\356
\004\056\367\204\354\203\020\150\014\177\170\055\234\302\227\216
\066\116\026\330\016\352\153\110\255\117\236\135\015\314\015\251
\076\030\205\176\314\150\231\071\065\326\330\237\206\301\062\373
\115\145\263\042\024\113\310\205\146\332\027\377\161\221\254\234
\126\127\336\161\054\126\102\277\370\315\016\360\242\323\377\322
\042\025\373\320\170\012\176\341\260\132\316\216\067\333\251\236
\347\225\317\143\362\054\015\322\372\157\363\310\325\373\000\267
\367\065\147\020\323\173\122\354\020\062\370\277\335\136\311\246
\202\244\361\260\277\035\056\335\045\344\275\115\360\065\251\221
\001\107\370\020\002\224\133\353\076\353\015\272\325\035\143\054
\245\056\253\347\343\036\243\356\113\252\137\261\146\001\264\202
\132\371\106\113\307\361\370\337\054\276\375\165\335\226\070\232
\067\072\156\245\346\062\025\156\263\220\300\071\212\164\245\225
\240\276\015\056\211\171\315\051\126\216\303\136\127\121\304\005
\157\004\125\217\201\351\114\275\131\106\313\052\274\115\311\035
\362\306\117\005\344\310\004\015\367\156\117\332\303\072\234\322
\302\365\351\306\044\172\024\076\034\102\060\250\002\105\061\251
\374\120\251\334\334\206\070\017\133\223\077\177\010\116\152\015
\047\072\020\171\126\303\025\270\076\006\206\366\331\160\147\257
\165\172\213\342\130\314\306\165\117\062\125\305\154\024\011\050
\073\362\225\344\152\336\054\050\007\255\240\175\007\050\335\324
\132\243\351\246\174\023\214\231\013\122\170\333\331\321\337\076
\132\103\166\177\106\140\123\302\315\347\166\107\174\125\315\264
\071\144\020\133\225\113\065\135\104\203\044\325\340\056\044\014
\301\200\156\151\000\200\006\167\012\146\202\020\014\121\157\067
\211\127\333\363\114\345\270\271\356\043\146\227\140\267\122\335
\331\226\373\272\212\073\240\115\316\136\360\104\114\220\314\041
\117\033\072\230\153\216\061\203\371\203\010\122\313\031\301\065

\153\356\241\025\133\210\077\155\254\362\064\222\123\246\060\052
\023\327\346\206\250\135\331\102\322\307\235\251\172\213\313\337
\356\242\061\302\345
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "SwissSign Platinum Root CA - G3"
Issuer: CN=SwissSign Platinum Root CA - G3,O=SwissSign AG,C=CH
Serial Number:22:3f:a9:17:20:de:81:94
Subject: CN=SwissSign Platinum Root CA - G3,O=SwissSign AG,C=CH
Not Valid Before: Tue Aug 04 13:34:04 2009
Not Valid After: Tue Aug 04 13:34:04 2037
Fingerprint (MD5): 20:de:12:0b:a8:6e:d9:34:a8:4e:b2:0d:1e:a6:43:39
Fingerprint (SHA1): a1:e7:c6:00:aa:41:70:e5:b7:4b:c9:4f:9b:97:03:ed:c2:61:b4:b9
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Platinum Root CA - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\241\347\306\000\252\101\160\345\267\113\311\117\233\227\003\355
\302\141\264\271
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\040\336\022\013\250\156\331\064\250\116\262\015\036\246\103\071
END
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\050\060\046\006\003\125\004\003\023
\037\123\167\151\163\163\123\151\147\156\040\120\154\141\164\151
\156\165\155\040\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\042\077\251\027\040\336\201\224
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "SwissSign Gold Root CA - G3"
Issuer: CN=SwissSign Gold Root CA - G3,O=SwissSign AG,C=CH
Serial Number:de:c4:f2:44:f3:1d:a6:fc

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# Subject: CN=SwissSign Gold Root CA - G3,O=SwissSign AG,C=CH
# Not Valid Before: Tue Aug 04 13:31:47 2009
# Not Valid After: Tue Aug 04 13:31:47 2037
# Fingerprint (MD5): c2:64:4c:e2:7d:eb:6c:7b:ec:36:e0:39:df:68:9c:67
# Fingerprint (SHA1): 0b:71:99:a1:c7:f3:ad:df:7b:a7:ea:b8:eb:57:4a:e8:0d:60:dd:de
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Gold Root CA - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\044\060\042\006\003\125\004\003\023
\033\123\167\151\163\163\123\151\147\156\040\107\157\154\144\040
\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\044\060\042\006\003\125\004\003\023
\033\123\167\151\163\163\123\151\147\156\040\107\157\154\144\040
\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\336\304\362\104\363\035\246\374
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\172\060\202\003\142\240\003\002\001\002\002\011\000
\336\304\362\104\363\035\246\374\060\015\006\011\052\206\110\206
\367\015\001\001\013\005\000\060\112\061\013\060\011\006\003\125
\004\006\023\002\103\110\061\025\060\023\006\003\125\004\012\023
\014\123\167\151\163\163\123\151\147\156\040\101\107\061\044\060
\042\006\003\125\004\003\023\033\123\167\151\163\163\123\151\147
\156\040\107\157\154\144\040\122\157\157\164\040\103\101\040\055
\040\107\063\060\036\027\015\060\071\060\070\060\064\061\063\063
\061\064\067\132\027\015\063\067\060\070\060\064\061\063\063\061
\064\067\132\060\112\061\013\060\011\006\003\125\004\006\023\002
\103\110\061\025\060\023\006\003\125\004\012\023\014\123\167\151
\163\163\123\151\147\156\040\101\107\061\044\060\042\006\003\125
\004\003\023\033\123\167\151\163\163\123\151\147\156\040\107\157
\154\144\040\122\157\157\164\040\103\101\040\055\040\107\063\060
\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001
\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000
\303\350\237\310\145\132\235\147\033\301\105\227\264\264\207\103
\133\141\140\200\236\362\177\136\371\147\104\335\104\372\253\265
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\253\167\377\052\031\114\316\157\304\217\101\237\340\342\315\162
\340\321\324\122\141\101\011\012\277\012\160\373\340\203\151\141
\051\312\333\042\232\133\245\346\335\027\225\260\157\204\216\072
\076\144\132\101\373\033\130\374\375\053\076\262\244\346\254\311
\202\274\316\366\225\370\227\167\355\046\366\130\256\236\047\342
\017\203\354\305\066\130\310\173\317\325\207\241\251\207\032\023
\147\141\001\155\246\151\234\342\220\361\053\150\145\363\350\260
\174\374\202\075\336\255\330\012\000\011\104\171\023\234\360\376
\156\165\173\302\274\263\131\001\013\174\305\325\055\360\277\377
\155\127\322\111\201\353\264\263\120\254\133\371\013\025\025\214
\151\377\243\071\001\355\374\334\334\047\227\216\173\213\325\152
\246\326\340\035\137\315\001\221\346\365\042\230\272\056\011\030
\070\157\023\250\201\322\373\041\067\347\055\264\142\347\201\220
\260\306\171\131\267\147\165\376\276\217\073\372\066\354\257\255
\322\117\164\066\001\345\127\253\043\004\314\112\136\227\317\176
\306\357\214\314\225\043\151\215\313\070\307\031\366\326\212\000
\024\036\064\075\157\332\014\013\303\272\227\374\021\113\122\141
\076\277\063\147\123\020\277\170\033\011\302\107\272\036\257\130
\365\165\201\177\275\126\361\353\126\327\331\151\014\007\351\067
\061\260\022\034\062\357\126\331\276\172\053\174\275\323\075\274
\152\063\115\072\074\120\020\207\047\307\172\012\147\123\333\177
\200\233\350\236\043\372\371\010\072\213\241\216\064\132\110\063
\137\144\323\227\206\007\031\175\210\224\316\052\174\305\152\337
\257\274\251\237\315\072\246\272\273\124\371\177\217\337\317\016
\132\304\255\232\274\263\072\167\163\203\114\223\074\220\150\265
\174\120\225\021\310\202\136\224\161\320\101\030\373\311\306\145
\354\316\211\266\316\042\263\021\133\077\340\235\076\033\030\150
\015\252\003\241\147\131\277\153\235\274\370\362\145\057\232\101
\072\105\330\136\320\066\154\157\073\036\143\264\216\230\114\023
\333\041\016\237\173\355\352\240\252\161\303\353\243\240\322\045
\002\003\001\000\001\243\143\060\141\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\001\006\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035
\016\004\026\004\024\134\227\006\106\064\253\337\060\305\174\305
\015\125\161\146\060\265\140\217\236\060\037\006\003\125\035\043
\004\030\060\026\200\024\134\227\006\106\064\253\337\060\305\174
\305\015\125\161\146\060\265\140\217\236\060\015\006\011\052\206
\110\206\367\015\001\001\013\005\000\003\202\002\001\000\167\113
\115\336\352\205\112\253\054\047\326\105\307\361\137\040\301\133
\140\355\007\313\242\063\334\066\317\307\224\361\006\307\325\332
\317\315\255\204\076\377\022\110\177\101\350\245\146\127\060\304
\035\344\247\032\057\055\102\301\357\106\163\262\325\365\132\375
\016\172\153\322\310\061\243\015\110\226\127\145\143\125\030\300
\374\344\212\314\230\206\133\253\014\212\047\067\372\043\150\131
\134\046\327\241\301\302\271\116\054\377\051\136\346\224\013\276
\315\162\117\225\350\217\366\367\270\076\136\316\317\236\021\311
\254\003\051\110\212\251\266\246\064\271\254\100\377\304\266\163
\067\261\307\177\251\121\333\113\052\107\137\100\044\007\210\006

\267\044\263\373\177\367\260\213\063\372\277\043\165\243\134\376
\252\145\032\302\276\361\175\201\167\003\201\261\215\327\225\015
\172\074\102\230\267\217\251\175\120\341\337\122\006\232\240\122
\124\170\203\007\141\122\011\067\136\212\234\247\306\121\321\134
\143\321\204\334\302\333\322\372\133\030\066\175\146\274\324\050
\227\057\165\226\034\204\007\254\213\216\123\021\276\044\041\252
\147\362\301\255\210\234\323\260\170\147\170\365\323\130\003\040
\012\135\040\361\265\347\145\314\016\040\343\325\337\346\057\031
\053\205\150\301\004\046\317\217\355\005\123\241\335\007\016\353
\101\046\307\264\251\054\133\343\151\075\146\300\142\033\300\252
\206\300\067\303\061\004\206\160\071\276\153\137\041\100\101\240
\177\345\331\017\070\113\160\137\111\370\205\270\053\056\252\037
\223\101\103\370\373\262\164\074\037\113\127\133\267\324\121\241
\222\112\316\276\020\242\356\330\024\042\173\271\101\275\215\351
\210\251\321\217\003\032\140\377\077\207\211\240\231\047\042\146
\260\076\150\236\162\210\121\070\235\023\076\105\155\005\345\106
\265\163\355\103\206\261\024\012\036\274\332\015\277\036\044\134
\146\217\016\276\241\375\306\353\151\274\103\171\327\003\166\371
\334\207\231\270\230\304\315\177\155\020\371\020\276\054\102\376
\234\051\115\203\153\012\275\265\216\304\110\212\375\041\007\246
\200\175\037\233\351\253\275\202\141\104\012\161\047\137\155\233
\220\236\256\377\066\044\263\150\003\326\225\214\153\163
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "SwissSign Gold Root CA - G3"
Issuer: CN=SwissSign Gold Root CA - G3,O=SwissSign AG,C=CH
Serial Number:de:c4:f2:44:f3:1d:a6:fc
Subject: CN=SwissSign Gold Root CA - G3,O=SwissSign AG,C=CH
Not Valid Before: Tue Aug 04 13:31:47 2009
Not Valid After: Tue Aug 04 13:31:47 2037
Fingerprint (MD5): c2:64:4c:e2:7d:eb:6c:7b:ec:36:e0:39:df:68:9c:67
Fingerprint (SHA1): 0b:71:99:a1:c7:f3:ad:df:7b:a7:ea:b8:eb:57:4a:e8:0d:60:dd:de
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Gold Root CA - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\013\161\231\241\307\363\255\337\173\247\352\270\353\127\112\350
\015\140\335\336
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\302\144\114\342\175\353\154\173\354\066\340\071\337\150\234\147
END

CKA_ISSUER MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\044\060\042\006\003\125\004\003\023
\033\123\167\151\163\163\123\151\147\156\040\107\157\154\144\040
\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\336\304\362\104\363\035\246\374
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "SITHS CA v3"
Issuer: CN=SITHS CA v3,O=Carelink,C=SE
Serial Number:1b:d4:0e:d4:34:d1:da:15:a6:00:30:15:02:4d:a4:6c
Subject: CN=SITHS CA v3,O=Carelink,C=SE
Not Valid Before: Mon Nov 28 10:27:50 2005
Not Valid After: Sat Nov 28 06:02:38 2015
Fingerprint (MD5): 51:c6:bb:37:df:2c:7b:55:0f:84:d4:f3:68:5a:be:eb
Fingerprint (SHA1): 16:d8:66:35:af:13:41:cd:34:79:94:45:eb:60:3e:27:37:02:96:5d
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SITHS CA v3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\066\061\013\060\011\006\003\125\004\006\023\002\123\105\061
\021\060\017\006\003\125\004\012\014\010\103\141\162\145\154\151
\156\153\061\024\060\022\006\003\125\004\003\014\013\123\111\124
\110\123\040\103\101\040\166\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\066\061\013\060\011\006\003\125\004\006\023\002\123\105\061
\021\060\017\006\003\125\004\012\014\010\103\141\162\145\154\151
\156\153\061\024\060\022\006\003\125\004\003\014\013\123\111\124
\110\123\040\103\101\040\166\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\033\324\016\324\064\321\332\025\246\000\060\025\002\115
\244\154
END
CKA_VALUE MULTILINE_OCTAL

\060\202\003\141\060\202\002\111\240\003\002\001\002\002\020\033
\324\016\324\064\321\332\025\246\000\060\025\002\115\244\154\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\066
\061\013\060\011\006\003\125\004\006\023\002\123\105\061\021\060
\017\006\003\125\004\012\014\010\103\141\162\145\154\151\156\153
\061\024\060\022\006\003\125\004\003\014\013\123\111\124\110\123
\040\103\101\040\166\063\060\036\027\015\060\065\061\061\062\070
\061\060\062\067\065\060\132\027\015\061\065\061\061\062\070\060
\066\060\062\063\070\132\060\066\061\013\060\011\006\003\125\004
\006\023\002\123\105\061\021\060\017\006\003\125\004\012\014\010
\103\141\162\145\154\151\156\153\061\024\060\022\006\003\125\004
\003\014\013\123\111\124\110\123\040\103\101\040\166\063\060\202
\001\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\001\017\000\060\202\001\012\002\202\001\001\000\305
\331\133\321\324\053\177\100\147\356\241\133\135\321\332\152\271
\031\061\362\360\046\111\001\145\374\101\124\361\226\221\354\052
\356\004\104\044\036\100\234\347\027\120\077\352\034\174\356\270
\067\071\374\307\323\257\233\156\135\337\076\276\005\374\352\312
\331\371\105\126\341\225\234\261\320\132\217\376\310\052\246\327
\152\154\340\155\135\354\134\166\376\341\231\107\232\251\173\247
\352\346\157\124\002\047\115\121\116\050\075\254\006\072\201\202
\246\034\275\113\244\355\122\022\334\212\052\353\047\364\301\042
\112\020\204\132\165\265\200\042\126\145\353\314\200\362\245\341
\144\276\174\336\017\275\047\007\114\051\133\252\261\357\264\173
\377\207\064\350\243\223\102\313\075\140\273\167\323\302\057\136
\024\370\163\157\244\177\240\234\001\325\325\251\273\014\127\217
\314\300\073\221\170\236\222\071\171\062\114\104\177\307\013\175
\336\372\314\176\332\314\336\015\324\146\266\142\246\063\277\154
\371\325\335\107\122\160\224\313\145\340\105\267\015\327\257\225
\110\327\101\243\073\040\120\015\074\024\125\223\314\352\015\002
\003\001\000\001\243\153\060\151\060\022\006\003\125\035\023\001
\001\377\004\010\060\006\001\001\377\002\001\000\060\021\006\011
\140\206\110\001\206\370\102\001\001\004\004\003\002\002\004\060
\024\006\003\125\035\040\004\015\060\013\060\011\006\007\052\205
\160\112\001\001\003\060\013\006\003\125\035\017\004\004\003\002
\001\006\060\035\006\003\125\035\016\004\026\004\024\174\056\071
\043\062\104\350\017\116\146\362\015\050\376\100\276\302\266\342
\240\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000
\003\202\001\001\000\010\123\132\210\051\015\365\124\330\253\261
\203\271\047\151\132\252\137\053\130\111\324\271\337\157\353\307
\006\353\375\207\232\277\312\022\337\172\236\001\042\045\143\122
\205\157\247\057\016\227\164\140\214\340\110\200\163\335\102\215
\041\355\017\162\177\164\006\156\120\126\073\055\207\354\201\130
\213\066\307\312\000\373\244\004\266\057\070\130\216\167\361\006
\304\055\054\047\055\030\202\013\212\137\042\224\024\025\143\070
\306\245\261\272\340\254\276\076\046\077\221\273\034\203\374\016
\312\311\067\276\067\327\360\173\363\214\330\274\220\013\364\000
\277\124\274\152\112\130\347\312\133\014\031\123\102\007\225\127

\065\270\117\226\123\232\250\230\335\116\175\125\264\234\343\272
\300\066\271\267\334\002\230\370\366\345\060\276\054\167\262\363
\311\342\002\243\346\367\104\174\326\152\177\320\170\276\071\163
\370\013\302\037\122\000\016\115\173\306\012\356\142\313\011\325
\017\012\060\207\202\223\274\312\021\244\037\011\372\372\067\120
\354\073\342\074\044\240\200\050\314\373\246\335\357\067\232\251
\061\335\337\352\121
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "SITHS CA v3"
Issuer: CN=SITHS CA v3,O=Carelink,C=SE
Serial Number:1b:d4:0e:d4:34:d1:da:15:a6:00:30:15:02:4d:a4:6c
Subject: CN=SITHS CA v3,O=Carelink,C=SE
Not Valid Before: Mon Nov 28 10:27:50 2005
Not Valid After: Sat Nov 28 06:02:38 2015
Fingerprint (MD5): 51:c6:bb:37:df:2c:7b:55:0f:84:d4:f3:68:5a:be:eb
Fingerprint (SHA1): 16:d8:66:35:af:13:41:cd:34:79:94:45:eb:60:3e:27:37:02:96:5d
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SITHS CA v3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\026\330\146\065\257\023\101\315\064\171\224\105\353\140\076\047
\067\002\226\135
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\121\306\273\067\337\054\173\125\017\204\324\363\150\132\276\353
END
CKA_ISSUER MULTILINE_OCTAL
\060\066\061\013\060\011\006\003\125\004\006\023\002\123\105\061
\021\060\017\006\003\125\004\012\014\010\103\141\162\145\154\151
\156\153\061\024\060\022\006\003\125\004\003\014\013\123\111\124
\110\123\040\103\101\040\166\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\033\324\016\324\064\321\332\025\246\000\060\025\002\115
\244\154
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Certinomis - Autorité Racine"
Issuer: CN=Certinomis - Autorité Racine,OU=0002 433998903,O=Certinomis,C=FR
Serial Number: 1 (0x1)
Subject: CN=Certinomis - Autorité Racine,OU=0002 433998903,O=Certinomis,C=FR
Not Valid Before: Wed Sep 17 08:28:59 2008
Not Valid After: Sun Sep 17 08:28:59 2028
Fingerprint (MD5): 7f:30:78:8c:03:e3:ca:c9:0a:e2:c9:ea:1e:aa:55:1a
Fingerprint (SHA1): 2e:14:da:ec:28:f0:fa:1e:8e:38:9a:4e:ab:eb:26:c0:0a:d3:83:c3
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certinomis - Autorité Racine"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\023\060\021\006\003\125\004\012\023\012\103\145\162\164\151\156
\157\155\151\163\061\027\060\025\006\003\125\004\013\023\016\060
\060\060\062\040\064\063\063\071\071\070\071\060\063\061\046\060
\044\006\003\125\004\003\014\035\103\145\162\164\151\156\157\155
\151\163\040\055\040\101\165\164\157\162\151\164\303\251\040\122
\141\143\151\156\145
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\023\060\021\006\003\125\004\012\023\012\103\145\162\164\151\156
\157\155\151\163\061\027\060\025\006\003\125\004\013\023\016\060
\060\060\062\040\064\063\063\071\071\070\071\060\063\061\046\060
\044\006\003\125\004\003\014\035\103\145\162\164\151\156\157\155
\151\163\040\055\040\101\165\164\157\162\151\164\303\251\040\122
\141\143\151\156\145
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\234\060\202\003\204\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\143\061\013\060\011\006\003\125\004\006\023\002\106\122\061\023
\060\021\006\003\125\004\012\023\012\103\145\162\164\151\156\157
\155\151\163\061\027\060\025\006\003\125\004\013\023\016\060\060
\060\062\040\064\063\063\071\071\070\071\060\063\061\046\060\044
\006\003\125\004\003\014\035\103\145\162\164\151\156\157\155\151
\163\040\055\040\101\165\164\157\162\151\164\303\251\040\122\141
\143\151\156\145\060\036\027\015\060\070\060\071\061\067\060\070
\062\070\065\071\132\027\015\062\070\060\071\061\067\060\070\062

\070\065\071\132\060\143\061\013\060\011\006\003\125\004\006\023
\002\106\122\061\023\060\021\006\003\125\004\012\023\012\103\145
\162\164\151\156\157\155\151\163\061\027\060\025\006\003\125\004
\013\023\016\060\060\060\062\040\064\063\063\071\071\070\071\060
\063\061\046\060\044\006\003\125\004\003\014\035\103\145\162\164
\151\156\157\155\151\163\040\055\040\101\165\164\157\162\151\164
\303\251\040\122\141\143\151\156\145\060\202\002\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017
\000\060\202\002\012\002\202\002\001\000\235\205\237\206\323\343
\257\307\262\153\156\063\340\236\267\102\064\125\235\371\201\276
\143\330\043\166\016\227\124\315\231\114\032\361\071\307\210\330
\027\120\014\236\141\332\300\116\125\336\347\132\270\172\116\167
\207\015\345\270\353\372\236\136\173\036\304\317\050\164\307\223
\365\024\306\042\050\004\371\221\303\253\047\163\152\016\056\115
\363\056\050\037\160\337\125\057\116\355\307\161\157\011\162\056
\355\325\062\227\320\361\130\167\321\140\274\116\136\333\232\204
\366\107\141\105\053\366\120\246\177\152\161\047\110\204\065\236
\254\376\151\251\236\172\136\065\045\372\264\247\111\065\167\226
\247\066\133\341\315\337\043\160\330\135\114\245\010\203\361\246
\044\070\023\250\354\057\250\241\147\307\246\055\206\107\356\212
\374\354\233\016\164\364\053\111\002\173\220\165\214\374\231\071
\001\071\326\112\211\345\236\166\253\076\226\050\070\046\213\335
\215\214\300\366\001\036\157\245\061\022\070\175\225\302\161\356
\355\164\256\344\066\242\103\165\325\361\000\233\342\344\327\314
\102\003\113\170\172\345\175\273\270\256\056\040\223\323\344\141
\337\161\341\166\147\227\077\266\337\152\163\132\144\042\345\102
\333\317\201\003\223\330\364\343\020\340\162\366\000\160\254\360
\301\172\017\005\177\317\064\151\105\265\223\344\031\333\122\026
\043\005\211\016\215\110\344\045\157\263\170\277\142\365\007\372
\225\044\302\226\262\350\243\043\302\135\003\374\303\323\345\174
\311\165\043\327\364\365\274\336\344\337\315\200\277\221\210\175
\247\023\264\071\272\054\272\275\321\153\314\363\245\050\355\104
\236\175\122\243\157\226\056\031\176\034\363\133\307\026\216\273
\140\175\167\146\107\124\202\000\021\140\154\062\301\250\070\033
\353\156\230\023\326\356\070\365\360\237\016\357\376\061\201\301
\322\044\225\057\123\172\151\242\360\017\206\105\216\130\202\053
\114\042\324\136\240\347\175\046\047\110\337\045\106\215\112\050
\174\206\236\371\233\032\131\271\145\277\005\335\266\102\135\075
\346\000\110\202\136\040\367\021\202\336\312\330\237\346\067\107
\046\036\353\170\367\141\303\101\144\130\002\101\371\332\340\321
\370\371\350\375\122\070\266\365\211\337\002\003\001\000\001\243
\133\060\131\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\006\060\035\006\003\125\035\016\004\026\004\024\015
\214\266\141\332\104\270\321\024\175\303\276\175\136\110\360\316
\312\152\260\060\027\006\003\125\035\040\004\020\060\016\060\014
\006\012\052\201\172\001\126\002\002\000\001\001\060\015\006\011
\052\206\110\206\367\015\001\001\005\005\000\003\202\002\001\000

\044\076\140\006\176\035\357\072\076\333\352\257\034\232\054\001
\013\364\305\265\331\111\061\364\135\101\215\211\014\116\377\154
\242\375\377\342\006\310\071\237\361\132\251\335\042\130\025\250
\212\323\261\346\062\011\202\003\154\327\077\010\307\370\271\272
\000\155\271\326\374\122\062\135\244\177\244\061\224\273\266\114
\070\177\050\060\065\377\237\043\123\267\266\356\024\160\000\100
\053\332\107\253\064\176\136\247\126\060\141\053\213\103\254\375
\266\210\050\365\153\266\076\140\112\272\102\220\064\147\215\352
\353\137\105\124\073\027\254\213\344\306\145\017\356\320\214\135
\146\071\316\062\247\330\020\227\300\176\064\234\237\224\363\366
\206\037\317\033\163\255\224\171\207\150\160\303\063\245\160\347
\330\325\070\224\157\143\171\353\277\012\016\010\347\305\057\017
\102\240\053\024\100\377\041\340\005\305\047\341\204\021\023\272
\326\206\035\101\013\023\043\211\323\311\013\350\212\272\172\243
\243\163\067\065\200\175\022\270\063\167\100\070\300\372\136\060
\322\362\266\243\261\326\242\225\227\201\233\122\355\151\114\377
\200\344\123\333\124\133\003\155\124\137\261\270\357\044\275\157
\237\021\303\307\144\302\017\050\142\205\146\136\032\173\262\267
\357\256\065\311\031\063\250\270\047\333\063\125\277\150\341\165
\110\104\126\373\315\323\110\273\107\211\072\254\151\365\200\306
\344\104\120\057\124\304\252\103\305\061\061\130\275\226\305\352
\165\154\232\165\261\115\370\367\227\377\226\026\362\227\115\350
\366\363\021\371\072\175\212\070\156\004\313\341\323\105\025\252
\245\321\035\235\135\143\350\044\346\066\024\342\207\255\033\131
\365\104\233\373\327\167\174\037\001\160\142\241\040\032\242\305
\032\050\364\041\003\356\056\331\301\200\352\271\331\202\326\133
\166\302\313\073\265\322\000\360\243\016\341\255\156\100\367\333
\240\264\320\106\256\025\327\104\302\115\065\371\322\013\362\027
\366\254\146\325\044\262\117\321\034\231\300\156\365\175\353\164
\004\270\371\115\167\011\327\264\317\007\060\011\361\270\000\126
\331\027\026\026\012\053\206\337\217\001\031\032\345\273\202\143
\377\276\013\166\026\136\067\067\346\330\164\227\242\231\105\171
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Certinomis - Autorité Racine"
Issuer: CN=Certinomis - Autorité Racine,OU=0002 433998903,O=Certinomis,C=FR
Serial Number: 1 (0x1)
Subject: CN=Certinomis - Autorité Racine,OU=0002 433998903,O=Certinomis,C=FR
Not Valid Before: Wed Sep 17 08:28:59 2008
Not Valid After: Sun Sep 17 08:28:59 2028
Fingerprint (MD5): 7f:30:78:8c:03:e3:ca:c9:0a:e2:c9:ea:1e:aa:55:1a
Fingerprint (SHA1): 2e:14:da:ec:28:f0:fa:1e:8e:38:9a:4e:ab:eb:26:c0:0a:d3:83:c3
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certinomis - Autorité Racine"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\056\024\332\354\050\360\372\036\216\070\232\116\253\353\046\300
\012\323\203\303
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\177\060\170\214\003\343\312\311\012\342\311\352\036\252\125\032
END
CKA_ISSUER MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\023\060\021\006\003\125\004\012\023\012\103\145\162\164\151\156
\157\155\151\163\061\027\060\025\006\003\125\004\013\023\016\060
\060\060\062\040\064\063\063\071\071\070\071\060\063\061\046\060
\044\006\003\125\004\003\014\035\103\145\162\164\151\156\157\155
\151\163\040\055\040\101\165\164\157\162\151\164\303\251\040\122
\141\143\151\156\145
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "ANF Server CA"
Issuer: CN=ANF Server CA,2.5.4.5=G63287510,OU=ANF Clase 1 CA,O=ANF Autoridad de Certificación,L=Barcelona (see current address at https://www.anf.es/address/),ST=Barcelona,C=ES
Serial Number: 78923 (0x1344b)
Subject: CN=ANF Server CA,2.5.4.5=G63287510,OU=ANF Clase 1 CA,O=ANF Autoridad de Certificación,L=Barcelona (see current address at https://www.anf.es/address/),ST=Barcelona,C=ES
Not Valid Before: Mon Nov 30 23:00:00 2009
Not Valid After: Tue Nov 30 23:00:00 2021
Fingerprint (MD5): 8c:18:ed:28:bf:45:19:e6:49:98:e1:35:22:2f:54:c6
Fingerprint (SHA1): ce:a9:89:0d:85:d8:07:53:a6:26:28:6c:da:d7:8c:b5:66:d7:0c:f2
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANF Server CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\331\061\013\060\011\006\003\125\004\006\023\002\105\123
\061\022\060\020\006\003\125\004\010\014\011\102\141\162\143\145
\154\157\156\141\061\107\060\105\006\003\125\004\007\014\076\102

\141\162\143\145\154\157\156\141\040\050\163\145\145\040\143\165
\162\162\145\156\164\040\141\144\144\162\145\163\163\040\141\164
\040\150\164\164\160\163\072\057\057\167\167\167\056\141\156\146
\056\145\163\057\141\144\144\162\145\163\163\057\051\061\050\060
\046\006\003\125\004\012\014\037\101\116\106\040\101\165\164\157
\162\151\144\141\144\040\144\145\040\103\145\162\164\151\146\151
\143\141\143\151\303\263\156\061\027\060\025\006\003\125\004\013
\014\016\101\116\106\040\103\154\141\163\145\040\061\040\103\101
\061\022\060\020\006\003\125\004\005\023\011\107\066\063\062\070
\067\065\061\060\061\026\060\024\006\003\125\004\003\014\015\101
\116\106\040\123\145\162\166\145\162\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\331\061\013\060\011\006\003\125\004\006\023\002\105\123
\061\022\060\020\006\003\125\004\010\014\011\102\141\162\143\145
\154\157\156\141\061\107\060\105\006\003\125\004\007\014\076\102
\141\162\143\145\154\157\156\141\040\050\163\145\145\040\143\165
\162\162\145\156\164\040\141\144\144\162\145\163\163\040\141\164
\040\150\164\164\160\163\072\057\057\167\167\167\056\141\156\146
\056\145\163\057\141\144\144\162\145\163\163\057\051\061\050\060
\046\006\003\125\004\012\014\037\101\116\106\040\101\165\164\157
\162\151\144\141\144\040\144\145\040\103\145\162\164\151\146\151
\143\141\143\151\303\263\156\061\027\060\025\006\003\125\004\013
\014\016\101\116\106\040\103\154\141\163\145\040\061\040\103\101
\061\022\060\020\006\003\125\004\005\023\011\107\066\063\062\070
\067\065\061\060\061\026\060\024\006\003\125\004\003\014\015\101
\116\106\040\123\145\162\166\145\162\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\001\064\113
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\235\060\202\005\205\240\003\002\001\002\002\003\001
\064\113\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\000\060\201\331\061\013\060\011\006\003\125\004\006\023\002\105
\123\061\022\060\020\006\003\125\004\010\014\011\102\141\162\143
\145\154\157\156\141\061\107\060\105\006\003\125\004\007\014\076
\102\141\162\143\145\154\157\156\141\040\050\163\145\145\040\143
\165\162\162\145\156\164\040\141\144\144\162\145\163\163\040\141
\164\040\150\164\164\160\163\072\057\057\167\167\167\056\141\156
\146\056\145\163\057\141\144\144\162\145\163\163\057\051\061\050
\060\046\006\003\125\004\012\014\037\101\116\106\040\101\165\164
\157\162\151\144\141\144\040\144\145\040\103\145\162\164\151\146
\151\143\141\143\151\303\263\156\061\027\060\025\006\003\125\004
\013\014\016\101\116\106\040\103\154\141\163\145\040\061\040\103
\101\061\022\060\020\006\003\125\004\005\023\011\107\066\063\062
\070\067\065\061\060\061\026\060\024\006\003\125\004\003\014\015

\101\116\106\040\123\145\162\166\145\162\040\103\101\060\036\027
\015\060\071\061\061\063\060\062\063\060\060\060\060\132\027\015
\062\061\061\061\063\060\062\063\060\060\060\060\132\060\201\331
\061\013\060\011\006\003\125\004\006\023\002\105\123\061\022\060
\020\006\003\125\004\010\014\011\102\141\162\143\145\154\157\156
\141\061\107\060\105\006\003\125\004\007\014\076\102\141\162\143
\145\154\157\156\141\040\050\163\145\145\040\143\165\162\162\145
\156\164\040\141\144\144\162\145\163\163\040\141\164\040\150\164
\164\160\163\072\057\057\167\167\167\056\141\156\146\056\145\163
\057\141\144\144\162\145\163\163\057\051\061\050\060\046\006\003
\125\004\012\014\037\101\116\106\040\101\165\164\157\162\151\144
\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141\143
\151\303\263\156\061\027\060\025\006\003\125\004\013\014\016\101
\116\106\040\103\154\141\163\145\040\061\040\103\101\061\022\060
\020\006\003\125\004\005\023\011\107\066\063\062\070\067\065\061
\060\061\026\060\024\006\003\125\004\003\014\015\101\116\106\040
\123\145\162\166\145\162\040\103\101\060\202\001\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017
\000\060\202\001\012\002\202\001\001\000\277\352\110\247\232\210
\071\153\054\110\100\007\004\223\174\367\270\055\176\245\067\342
\141\326\041\374\220\067\313\151\076\136\213\067\337\133\157\073
\330\266\303\210\100\220\364\235\014\134\020\122\261\263\345\137
\221\020\346\375\250\200\024\137\323\213\275\134\275\017\043\222
\011\067\343\162\322\146\224\013\134\164\224\057\136\362\116\330
\003\306\263\316\126\245\034\331\173\375\117\007\114\324\267\332
\137\051\115\165\362\037\125\317\062\043\034\106\011\047\035\105
\354\361\214\064\211\336\173\026\247\103\136\212\053\351\224\103
\036\327\076\223\155\157\211\075\274\356\261\310\267\377\311\175
\343\137\015\157\167\170\365\052\056\215\304\213\230\227\060\261
\106\132\013\143\160\324\170\307\206\263\177\377\047\102\252\237
\212\156\155\241\224\312\354\207\002\034\326\124\113\375\274\211
\233\246\143\070\146\214\026\211\211\227\303\120\350\366\102\001
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\221\362\306\071\234\173\363\300\012\231\370\356\203\157\176\102
\167\021\216\303\037\034\162\057\075\033\002\003\001\000\001\243
\202\002\152\060\202\002\146\060\035\006\003\125\035\016\004\026
\004\024\276\073\366\264\061\267\163\044\110\071\305\127\023\224
\165\252\237\201\077\054\060\202\001\011\006\003\125\035\043\004
\202\001\000\060\201\375\200\024\276\073\366\264\061\267\163\044
\110\071\305\127\023\224\165\252\237\201\077\054\241\201\337\244
\201\334\060\201\331\061\013\060\011\006\003\125\004\006\023\002
\105\123\061\022\060\020\006\003\125\004\010\014\011\102\141\162
\143\145\154\157\156\141\061\107\060\105\006\003\125\004\007\014
\076\102\141\162\143\145\154\157\156\141\040\050\163\145\145\040
\143\165\162\162\145\156\164\040\141\144\144\162\145\163\163\040
\141\164\040\150\164\164\160\163\072\057\057\167\167\167\056\141
\156\146\056\145\163\057\141\144\144\162\145\163\163\057\051\061
\050\060\046\006\003\125\004\012\014\037\101\116\106\040\101\165

\164\157\162\151\144\141\144\040\144\145\040\103\145\162\164\151
\146\151\143\141\143\151\303\263\156\061\027\060\025\006\003\125
\004\013\014\016\101\116\106\040\103\154\141\163\145\040\061\040
\103\101\061\022\060\020\006\003\125\004\005\023\011\107\066\063
\062\070\067\065\061\060\061\026\060\024\006\003\125\004\003\014
\015\101\116\106\040\123\145\162\166\145\162\040\103\101\202\003
\001\064\113\060\014\006\003\125\035\023\004\005\060\003\001\001
\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\006\060\061\006\012\053\006\001\004\001\201\217\034\052\006\004
\043\033\041\150\164\164\160\163\072\057\057\167\167\167\056\141
\156\146\056\145\163\057\101\103\057\101\103\124\101\123\057\067
\070\071\062\063\060\030\006\012\053\006\001\004\001\201\217\034
\023\001\004\012\033\010\070\060\061\055\063\064\060\060\060\070
\006\010\053\006\001\005\005\007\001\001\004\054\060\052\060\050
\006\010\053\006\001\005\005\007\060\001\206\034\150\164\164\160
\072\057\057\167\167\167\056\141\156\146\056\145\163\057\101\103
\057\122\103\057\157\143\163\160\060\143\006\003\125\035\037\004
\134\060\132\060\053\240\051\240\047\206\045\150\164\164\160\163
\072\057\057\167\167\167\056\141\156\146\056\145\163\057\101\103
\057\101\116\106\123\145\162\166\145\162\103\101\056\143\162\154
\060\053\240\051\240\047\206\045\150\164\164\160\163\072\057\057
\143\162\154\056\141\156\146\056\145\163\057\101\103\057\101\116
\106\123\145\162\166\145\162\103\101\056\143\162\154\060\026\006
\003\125\035\022\004\017\060\015\201\013\151\156\146\157\100\141
\156\146\056\145\163\060\026\006\003\125\035\021\004\017\060\015
\201\013\151\156\146\157\100\141\156\146\056\145\163\060\015\006
\011\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001
\000\265\306\307\274\106\372\102\134\023\301\224\165\063\126\277
\057\247\007\163\354\067\343\103\164\352\371\146\117\136\215\177
\360\346\171\303\115\365\331\070\245\314\312\103\364\123\200\206
\277\274\320\021\135\220\304\302\100\107\353\305\207\223\301\266
\170\136\232\256\207\365\142\020\131\114\114\155\006\276\231\023
\025\263\263\372\034\162\176\340\042\041\001\130\065\070\150\242
\344\370\341\360\360\066\120\221\340\264\167\334\143\204\063\222
\140\270\313\026\362\322\143\073\114\134\065\072\347\254\002\123
\305\034\201\001\167\307\034\021\037\124\060\357\124\217\045\372
\211\047\224\064\243\017\024\117\157\351\163\331\030\142\347\356
\010\350\311\203\173\310\063\233\174\104\232\174\032\220\265\322
\161\211\337\075\364\034\117\116\121\340\311\153\266\252\013\036
\331\060\017\323\143\325\355\160\364\301\203\355\006\105\232\250
\352\264\211\067\375\132\067\107\357\221\171\247\065\377\360\334
\060\355\015\024\147\333\174\132\340\217\155\063\376\074\236\025
\063\303\303\055\016\135\252\174\015\216\061\226\115\213\377\005
\325
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "ANF Server CA"
Issuer: CN=ANF Server CA,2.5.4.5=G63287510,OU=ANF Clase 1 CA,O=ANF Autoridad de Certificación,L=Barcelona (see current address at https://www.anf.es/address/),ST=Barcelona,C=ES
Serial Number: 78923 (0x1344b)
Subject: CN=ANF Server CA,2.5.4.5=G63287510,OU=ANF Clase 1 CA,O=ANF Autoridad de Certificación,L=Barcelona (see current address at https://www.anf.es/address/),ST=Barcelona,C=ES
Not Valid Before: Mon Nov 30 23:00:00 2009
Not Valid After: Tue Nov 30 23:00:00 2021
Fingerprint (MD5): 8c:18:ed:28:bf:45:19:e6:49:98:e1:35:22:2f:54:c6
Fingerprint (SHA1): ce:a9:89:0d:85:d8:07:53:a6:26:28:6c:da:d7:8c:b5:66:d7:0c:f2
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANF Server CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\316\251\211\015\205\330\007\123\246\046\050\154\332\327\214\265
\146\327\014\362
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\214\030\355\050\277\105\031\346\111\230\341\065\042\057\124\306
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\331\061\013\060\011\006\003\125\004\006\023\002\105\123
\061\022\060\020\006\003\125\004\010\014\011\102\141\162\143\145
\154\157\156\141\061\107\060\105\006\003\125\004\007\014\076\102
\141\162\143\145\154\157\156\141\040\050\163\145\145\040\143\165
\162\162\145\156\164\040\141\144\144\162\145\163\163\040\141\164
\040\150\164\164\160\163\072\057\057\167\167\167\056\141\156\146
\056\145\163\057\141\144\144\162\145\163\163\057\051\061\050\060
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\162\151\144\141\144\040\144\145\040\103\145\162\164\151\146\151
\143\141\143\151\303\263\156\061\027\060\025\006\003\125\004\013
\014\016\101\116\106\040\103\154\141\163\145\040\061\040\103\101
\061\022\060\020\006\003\125\004\005\023\011\107\066\063\062\070
\067\065\061\060\061\026\060\024\006\003\125\004\003\014\015\101
\116\106\040\123\145\162\166\145\162\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\001\064\113
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Thawte Premium Server CA"
Issuer: 1.2.840.113549.1.9.1=premium-server@thawte.com,CN=Thawte Premium Server CA,OU=Certification Services Division,O=Thawte Consulting cc,L=Cape Town,ST=Western Cape,C=ZA
Serial Number:36:12:22:96:c5:e3:38:a5:20:a1:d2:5f:4c:d7:09:54
Subject: 1.2.840.113549.1.9.1=premium-server@thawte.com,CN=Thawte Premium Server CA,OU=Certification Services Division,O=Thawte Consulting cc,L=Cape Town,ST=Western Cape,C=ZA
Not Valid Before: Thu Aug 01 00:00:00 1996
Not Valid After: Fri Jan 01 23:59:59 2021
Fingerprint (MD5): a6:6b:60:90:23:9b:3f:2d:bb:98:6f:d6:a7:19:0d:46
Fingerprint (SHA1): e0:ab:05:94:20:72:54:93:05:60:62:02:36:70:f7:cd:2e:fc:66:66
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Thawte Premium Server CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101
\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145
\162\156\040\103\141\160\145\061\022\060\020\006\003\125\004\007
\023\011\103\141\160\145\040\124\157\167\156\061\035\060\033\006
\003\125\004\012\023\024\124\150\141\167\164\145\040\103\157\156
\163\165\154\164\151\156\147\040\143\143\061\050\060\046\006\003
\125\004\013\023\037\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\123\145\162\166\151\143\145\163\040\104\151\166\151
\163\151\157\156\061\041\060\037\006\003\125\004\003\023\030\124
\150\141\167\164\145\040\120\162\145\155\151\165\155\040\123\145
\162\166\145\162\040\103\101\061\050\060\046\006\011\052\206\110
\206\367\015\001\011\001\026\031\160\162\145\155\151\165\155\055
\163\145\162\166\145\162\100\164\150\141\167\164\145\056\143\157
\155
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101
\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145
\162\156\040\103\141\160\145\061\022\060\020\006\003\125\004\007
\023\011\103\141\160\145\040\124\157\167\156\061\035\060\033\006
\003\125\004\012\023\024\124\150\141\167\164\145\040\103\157\156
\163\165\154\164\151\156\147\040\143\143\061\050\060\046\006\003
\125\004\013\023\037\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\123\145\162\166\151\143\145\163\040\104\151\166\151
\163\151\157\156\061\041\060\037\006\003\125\004\003\023\030\124
\150\141\167\164\145\040\120\162\145\155\151\165\155\040\123\145
\162\166\145\162\040\103\101\061\050\060\046\006\011\052\206\110
\206\367\015\001\011\001\026\031\160\162\145\155\151\165\155\055
\163\145\162\166\145\162\100\164\150\141\167\164\145\056\143\157

\155
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\066\022\042\226\305\343\070\245\040\241\322\137\114\327
\011\124
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\066\060\202\002\237\240\003\002\001\002\002\020\066
\022\042\226\305\343\070\245\040\241\322\137\114\327\011\124\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\201
\316\061\013\060\011\006\003\125\004\006\023\002\132\101\061\025
\060\023\006\003\125\004\010\023\014\127\145\163\164\145\162\156
\040\103\141\160\145\061\022\060\020\006\003\125\004\007\023\011
\103\141\160\145\040\124\157\167\156\061\035\060\033\006\003\125
\004\012\023\024\124\150\141\167\164\145\040\103\157\156\163\165
\154\164\151\156\147\040\143\143\061\050\060\046\006\003\125\004
\013\023\037\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\123\145\162\166\151\143\145\163\040\104\151\166\151\163\151
\157\156\061\041\060\037\006\003\125\004\003\023\030\124\150\141
\167\164\145\040\120\162\145\155\151\165\155\040\123\145\162\166
\145\162\040\103\101\061\050\060\046\006\011\052\206\110\206\367
\015\001\011\001\026\031\160\162\145\155\151\165\155\055\163\145
\162\166\145\162\100\164\150\141\167\164\145\056\143\157\155\060
\036\027\015\071\066\060\070\060\061\060\060\060\060\060\060\132
\027\015\062\061\060\061\060\061\062\063\065\071\065\071\132\060
\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101\061
\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145\162
\156\040\103\141\160\145\061\022\060\020\006\003\125\004\007\023
\011\103\141\160\145\040\124\157\167\156\061\035\060\033\006\003
\125\004\012\023\024\124\150\141\167\164\145\040\103\157\156\163
\165\154\164\151\156\147\040\143\143\061\050\060\046\006\003\125
\004\013\023\037\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\123\145\162\166\151\143\145\163\040\104\151\166\151\163
\151\157\156\061\041\060\037\006\003\125\004\003\023\030\124\150
\141\167\164\145\040\120\162\145\155\151\165\155\040\123\145\162
\166\145\162\040\103\101\061\050\060\046\006\011\052\206\110\206
\367\015\001\011\001\026\031\160\162\145\155\151\165\155\055\163
\145\162\166\145\162\100\164\150\141\167\164\145\056\143\157\155
\060\201\237\060\015\006\011\052\206\110\206\367\015\001\001\001
\005\000\003\201\215\000\060\201\211\002\201\201\000\322\066\066
\152\213\327\302\133\236\332\201\101\142\217\070\356\111\004\125
\326\320\357\034\033\225\026\107\357\030\110\065\072\122\364\053
\152\006\217\073\057\352\126\343\257\206\215\236\027\367\236\264
\145\165\002\115\357\313\011\242\041\121\330\233\320\147\320\272
\015\222\006\024\163\324\223\313\227\052\000\234\134\116\014\274
\372\025\122\374\362\104\156\332\021\112\156\010\237\057\055\343
\371\252\072\206\163\266\106\123\130\310\211\005\275\203\021\270
\163\077\252\007\215\364\102\115\347\100\235\034\067\002\003\001

\000\001\243\023\060\021\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\015\006\011\052\206\110\206\367
\015\001\001\005\005\000\003\201\201\000\145\220\254\210\017\126
\331\346\060\064\324\046\307\320\120\361\222\336\153\324\071\210
\011\042\306\246\143\203\003\367\231\167\330\262\345\030\270\135
\143\363\324\163\373\154\234\231\170\361\113\170\175\031\044\303
\053\002\204\370\274\042\331\212\042\327\240\374\161\354\221\207
\040\361\270\354\261\345\125\200\254\075\122\310\071\016\302\360
\300\005\117\326\202\165\214\275\137\322\334\166\232\005\022\311
\257\162\303\334\045\176\244\115\216\027\245\340\207\177\341\232
\132\341\140\334\144\043\074\102\056\115
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Thawte Premium Server CA"
Issuer: 1.2.840.113549.1.9.1=premium-server@thawte.com,CN=Thawte Premium Server CA,OU=Certification Services Division,O=Thawte Consulting cc,L=Cape Town,ST=Western Cape,C=ZA
Serial Number:36:12:22:96:c5:e3:38:a5:20:a1:d2:5f:4c:d7:09:54
Subject: 1.2.840.113549.1.9.1=premium-server@thawte.com,CN=Thawte Premium Server CA,OU=Certification Services Division,O=Thawte Consulting cc,L=Cape Town,ST=Western Cape,C=ZA
Not Valid Before: Thu Aug 01 00:00:00 1996
Not Valid After: Fri Jan 01 23:59:59 2021
Fingerprint (MD5): a6:6b:60:90:23:9b:3f:2d:bb:98:6f:d6:a7:19:0d:46
Fingerprint (SHA1): e0:ab:05:94:20:72:54:93:05:60:62:02:36:70:f7:cd:2e:fc:66:66
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Thawte Premium Server CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\340\253\005\224\040\162\124\223\005\140\142\002\066\160\367\315
\056\374\146\146
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\246\153\140\220\043\233\077\055\273\230\157\326\247\031\015\106
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\316\061\013\060\011\006\003\125\004\006\023\002\132\101
\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145
\162\156\040\103\141\160\145\061\022\060\020\006\003\125\004\007
\023\011\103\141\160\145\040\124\157\167\156\061\035\060\033\006
\003\125\004\012\023\024\124\150\141\167\164\145\040\103\157\156
\163\165\154\164\151\156\147\040\143\143\061\050\060\046\006\003
\125\004\013\023\037\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\123\145\162\166\151\143\145\163\040\104\151\166\151

\163\151\157\156\061\041\060\037\006\003\125\004\003\023\030\124
\150\141\167\164\145\040\120\162\145\155\151\165\155\040\123\145
\162\166\145\162\040\103\101\061\050\060\046\006\011\052\206\110
\206\367\015\001\011\001\026\031\160\162\145\155\151\165\155\055
\163\145\162\166\145\162\100\164\150\141\167\164\145\056\143\157
\155
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\066\022\042\226\305\343\070\245\040\241\322\137\114\327
\011\124
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Thawte Server CA"
Issuer: 1.2.840.113549.1.9.1=server-certs@thawte.com,CN=Thawte Server CA,OU=Certification Services Division,O=Thawte Consulting cc,L=Cape Town,ST=Western Cape,C=ZA
Serial Number:34:a4:ff:f6:30:af:4c:a5:3c:33:17:42:a1:94:66:75
Subject: 1.2.840.113549.1.9.1=server-certs@thawte.com,CN=Thawte Server CA,OU=Certification Services Division,O=Thawte Consulting cc,L=Cape Town,ST=Western Cape,C=ZA
Not Valid Before: Thu Aug 01 00:00:00 1996
Not Valid After: Fri Jan 01 23:59:59 2021
Fingerprint (MD5): ee:fe:61:69:65:6e:f8:9c:c6:2a:f4:d7:2b:63:ef:a2
Fingerprint (SHA1): 9f:ad:91:a6:ce:6a:c6:c5:00:47:c4:4e:c9:d4:a5:0d:92:d8:49:79
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Thawte Server CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\304\061\013\060\011\006\003\125\004\006\023\002\132\101
\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145
\162\156\040\103\141\160\145\061\022\060\020\006\003\125\004\007
\023\011\103\141\160\145\040\124\157\167\156\061\035\060\033\006
\003\125\004\012\023\024\124\150\141\167\164\145\040\103\157\156
\163\165\154\164\151\156\147\040\143\143\061\050\060\046\006\003
\125\004\013\023\037\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\123\145\162\166\151\143\145\163\040\104\151\166\151
\163\151\157\156\061\031\060\027\006\003\125\004\003\023\020\124
\150\141\167\164\145\040\123\145\162\166\145\162\040\103\101\061
\046\060\044\006\011\052\206\110\206\367\015\001\011\001\026\027
\163\145\162\166\145\162\055\143\145\162\164\163\100\164\150\141
\167\164\145\056\143\157\155
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\304\061\013\060\011\006\003\125\004\006\023\002\132\101
\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145
\162\156\040\103\141\160\145\061\022\060\020\006\003\125\004\007
\023\011\103\141\160\145\040\124\157\167\156\061\035\060\033\006
\003\125\004\012\023\024\124\150\141\167\164\145\040\103\157\156
\163\165\154\164\151\156\147\040\143\143\061\050\060\046\006\003
\125\004\013\023\037\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\123\145\162\166\151\143\145\163\040\104\151\166\151
\163\151\157\156\061\031\060\027\006\003\125\004\003\023\020\124
\150\141\167\164\145\040\123\145\162\166\145\162\040\103\101\061
\046\060\044\006\011\052\206\110\206\367\015\001\011\001\026\027
\163\145\162\166\145\162\055\143\145\162\164\163\100\164\150\141
\167\164\145\056\143\157\155
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\064\244\377\366\060\257\114\245\074\063\027\102\241\224
\146\165
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\042\060\202\002\213\240\003\002\001\002\002\020\064
\244\377\366\060\257\114\245\074\063\027\102\241\224\146\165\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\201
\304\061\013\060\011\006\003\125\004\006\023\002\132\101\061\025
\060\023\006\003\125\004\010\023\014\127\145\163\164\145\162\156
\040\103\141\160\145\061\022\060\020\006\003\125\004\007\023\011
\103\141\160\145\040\124\157\167\156\061\035\060\033\006\003\125
\004\012\023\024\124\150\141\167\164\145\040\103\157\156\163\165
\154\164\151\156\147\040\143\143\061\050\060\046\006\003\125\004
\013\023\037\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\123\145\162\166\151\143\145\163\040\104\151\166\151\163\151
\157\156\061\031\060\027\006\003\125\004\003\023\020\124\150\141
\167\164\145\040\123\145\162\166\145\162\040\103\101\061\046\060
\044\006\011\052\206\110\206\367\015\001\011\001\026\027\163\145
\162\166\145\162\055\143\145\162\164\163\100\164\150\141\167\164
\145\056\143\157\155\060\036\027\015\071\066\060\070\060\061\060
\060\060\060\060\060\132\027\015\062\061\060\061\060\061\062\063
\065\071\065\071\132\060\201\304\061\013\060\011\006\003\125\004
\006\023\002\132\101\061\025\060\023\006\003\125\004\010\023\014
\127\145\163\164\145\162\156\040\103\141\160\145\061\022\060\020
\006\003\125\004\007\023\011\103\141\160\145\040\124\157\167\156
\061\035\060\033\006\003\125\004\012\023\024\124\150\141\167\164
\145\040\103\157\156\163\165\154\164\151\156\147\040\143\143\061
\050\060\046\006\003\125\004\013\023\037\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\123\145\162\166\151\143\145\163
\040\104\151\166\151\163\151\157\156\061\031\060\027\006\003\125
\004\003\023\020\124\150\141\167\164\145\040\123\145\162\166\145

\162\040\103\101\061\046\060\044\006\011\052\206\110\206\367\015
\001\011\001\026\027\163\145\162\166\145\162\055\143\145\162\164
\163\100\164\150\141\167\164\145\056\143\157\155\060\201\237\060
\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003\201
\215\000\060\201\211\002\201\201\000\323\244\120\156\310\377\126
\153\346\317\135\266\352\014\150\165\107\242\252\302\332\204\045
\374\250\364\107\121\332\205\265\040\164\224\206\036\017\165\311
\351\010\141\365\006\155\060\156\025\031\002\351\122\300\142\333
\115\231\236\342\152\014\104\070\315\376\276\343\144\011\160\305
\376\261\153\051\266\057\111\310\073\324\047\004\045\020\227\057
\347\220\155\300\050\102\231\327\114\103\336\303\365\041\155\124
\237\135\303\130\341\300\344\331\133\260\270\334\264\173\337\066
\072\302\265\146\042\022\326\207\015\002\003\001\000\001\243\023
\060\021\060\017\006\003\125\035\023\001\001\377\004\005\060\003
\001\001\377\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\003\201\201\000\276\100\151\101\157\306\333\301\247\277
\007\300\105\344\320\265\103\036\114\225\063\065\351\136\302\076
\050\366\250\015\120\325\377\342\014\017\374\120\002\216\256\221
\271\255\064\212\215\237\047\161\252\031\314\113\350\004\312\324
\027\153\022\032\326\306\137\326\315\136\377\211\166\277\330\110
\330\131\275\010\212\211\035\127\315\105\036\122\272\022\232\204
\372\030\211\137\350\371\060\065\152\001\140\271\231\200\203\205
\012\156\332\364\311\217\136\163\055\061\112\143\240\164\362\037
\213\042\322\051\076\353
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Thawte Server CA"
Issuer: 1.2.840.113549.1.9.1=server-certs@thawte.com,CN=Thawte Server CA,OU=Certification Services Division,O=Thawte Consulting cc,L=Cape Town,ST=Western Cape,C=ZA
Serial Number:34:a4:ff:f6:30:af:4c:a5:3c:33:17:42:a1:94:66:75
Subject: 1.2.840.113549.1.9.1=server-certs@thawte.com,CN=Thawte Server CA,OU=Certification Services Division,O=Thawte Consulting cc,L=Cape Town,ST=Western Cape,C=ZA
Not Valid Before: Thu Aug 01 00:00:00 1996
Not Valid After: Fri Jan 01 23:59:59 2021
Fingerprint (MD5): ee:fe:61:69:65:6e:f8:9c:c6:2a:f4:d7:2b:63:ef:a2
Fingerprint (SHA1): 9f:ad:91:a6:ce:6a:c6:c5:00:47:c4:4e:c9:d4:a5:0d:92:d8:49:79
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Thawte Server CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\237\255\221\246\316\152\306\305\000\107\304\116\311\324\245\015
\222\330\111\171

```
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\356\376\141\151\145\156\370\234\306\052\364\327\053\143\357\242
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\304\061\013\060\011\006\003\125\004\006\023\002\132\101
\061\025\060\023\006\003\125\004\010\023\014\127\145\163\164\145
\162\156\040\103\141\160\145\061\022\060\020\006\003\125\004\007
\023\011\103\141\160\145\040\124\157\167\156\061\035\060\033\006
\003\125\004\012\023\024\124\150\141\167\164\145\040\103\157\156
\163\165\154\164\151\156\147\040\143\143\061\050\060\046\006\003
\125\004\013\023\037\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\123\145\162\166\151\143\145\163\040\104\151\166\151
\163\151\157\156\061\031\060\027\006\003\125\004\003\023\020\124
\150\141\167\164\145\040\123\145\162\166\145\162\040\103\101\061
\046\060\044\006\011\052\206\110\206\367\015\001\011\001\026\027
\163\145\162\166\145\162\055\143\145\162\164\163\100\164\150\141
\167\164\145\056\143\157\155
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\064\244\377\366\060\257\114\245\074\063\027\102\241\224
\146\165
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "TC TrustCenter Universal CA III"
# Issuer: CN=TC TrustCenter Universal CA III,OU=TC TrustCenter Universal CA,O=TC TrustCenter
GmbH,C=DE
# Serial Number:63:25:00:01:00:02:14:8d:33:15:02:e4:6c:f4
# Subject: CN=TC TrustCenter Universal CA III,OU=TC TrustCenter Universal CA,O=TC TrustCenter
GmbH,C=DE
# Not Valid Before: Wed Sep 09 08:15:27 2009
# Not Valid After: Mon Dec 31 23:59:59 2029
# Fingerprint (MD5): 9f:dd:db:ab:ff:8e:ff:45:21:5f:f0:6c:9d:8f:fe:2b
# Fingerprint (SHA1): 96:56:cd:7b:57:96:98:95:d0:e1:41:46:68:06:fb:b8:c6:11:06:87
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TC TrustCenter Universal CA III"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\173\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\034\060\032\006\003\125\004\012\023\023\124\103\040\124\162\165
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\163\164\103\145\156\164\145\162\040\107\155\142\110\061\044\060
\042\006\003\125\004\013\023\033\124\103\040\124\162\165\163\164
\103\145\156\164\145\162\040\125\156\151\166\145\162\163\141\154
\040\103\101\061\050\060\046\006\003\125\004\003\023\037\124\103
\040\124\162\165\163\164\103\145\156\164\145\162\040\125\156\151
\166\145\162\163\141\154\040\103\101\040\111\111\111
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\173\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\034\060\032\006\003\125\004\012\023\023\124\103\040\124\162\165
\163\164\103\145\156\164\145\162\040\107\155\142\110\061\044\060
\042\006\003\125\004\013\023\033\124\103\040\124\162\165\163\164
\103\145\156\164\145\162\040\125\156\151\166\145\162\163\141\154
\040\103\101\061\050\060\046\006\003\125\004\003\023\037\124\103
\040\124\162\165\163\164\103\145\156\164\145\162\040\125\156\151
\166\145\162\163\141\154\040\103\101\040\111\111\111
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\016\143\045\000\001\000\002\024\215\063\025\002\344\154\364
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\341\060\202\002\311\240\003\002\001\002\002\016\143
\045\000\001\000\002\024\215\063\025\002\344\154\364\060\015\006
\011\052\206\110\206\367\015\001\001\005\005\000\060\173\061\013
\060\011\006\003\125\004\006\023\002\104\105\061\034\060\032\006
\003\125\004\012\023\023\124\103\040\124\162\165\163\164\103\145
\156\164\145\162\040\107\155\142\110\061\044\060\042\006\003\125
\004\013\023\033\124\103\040\124\162\165\163\164\103\145\156\164
\145\162\040\125\156\151\166\145\162\163\141\154\040\103\101\061
\050\060\046\006\003\125\004\003\023\037\124\103\040\124\162\165
\163\164\103\145\156\164\145\162\040\125\156\151\166\145\162\163
\141\154\040\103\101\040\111\111\111\060\036\027\015\060\071\060
\071\060\071\060\070\061\065\062\067\132\027\015\062\071\061\062
\063\061\062\063\065\071\065\071\132\060\173\061\013\060\011\006
\003\125\004\006\023\002\104\105\061\034\060\032\006\003\125\004
\012\023\023\124\103\040\124\162\165\163\164\103\145\156\164\145
\162\040\107\155\142\110\061\044\060\042\006\003\125\004\013\023
\033\124\103\040\124\162\165\163\164\103\145\156\164\145\162\040
\125\156\151\166\145\162\163\141\154\040\103\101\061\050\060\046
\006\003\125\004\003\023\037\124\103\040\124\162\165\163\164\103
\145\156\164\145\162\040\125\156\151\166\145\162\163\141\154\040
\103\101\040\111\111\111\060\202\001\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202
\001\012\002\202\001\001\000\302\332\234\142\260\271\161\022\260
\013\310\032\127\262\256\203\024\231\263\064\113\233\220\242\305
\347\347\057\002\240\115\055\244\372\205\332\233\045\205\055\100
\050\040\155\352\340\275\261\110\203\042\051\104\237\116\203\356

\065\121\023\163\164\325\274\362\060\146\224\123\300\100\066\057
\014\204\145\316\017\156\302\130\223\350\054\013\072\351\301\216
\373\362\153\312\074\342\234\116\216\344\371\175\323\047\237\033
\325\147\170\207\055\177\013\107\263\307\350\311\110\174\257\057
\314\012\331\101\357\237\376\232\341\262\256\371\123\265\345\351
\106\237\140\343\337\215\323\177\373\226\176\263\265\162\370\113
\255\010\171\315\151\211\100\047\365\052\301\255\103\354\244\123
\310\141\266\367\322\171\052\147\030\166\110\155\133\045\001\321
\046\305\267\127\151\043\025\133\141\212\255\360\033\055\331\257
\134\361\046\220\151\251\325\014\100\365\063\200\103\217\234\243
\166\052\105\264\257\277\177\076\207\077\166\305\315\052\336\040
\305\026\130\313\371\033\365\017\313\015\021\122\144\270\322\166
\142\167\203\361\130\237\377\002\003\001\000\001\243\143\060\141
\060\037\006\003\125\035\043\004\030\060\026\200\024\126\347\341
\133\045\103\200\340\366\214\341\161\274\216\345\200\057\304\110
\342\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\006\060\035\006\003\125\035\016\004\026\004\024\126\347\341
\133\045\103\200\340\366\214\341\161\274\216\345\200\057\304\110
\342\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000
\003\202\001\001\000\203\307\257\352\177\115\012\074\071\261\150
\276\173\155\211\056\351\263\011\347\030\127\215\205\232\027\363
\166\102\120\023\017\307\220\157\063\255\305\111\140\053\154\111
\130\031\324\342\276\267\277\253\111\274\224\310\253\276\050\154
\026\150\340\310\227\106\040\240\150\147\140\210\071\040\121\330
\150\001\021\316\247\366\021\007\366\354\354\254\032\037\262\146
\156\126\147\140\172\164\136\300\155\227\066\256\265\015\135\146
\163\300\045\062\105\330\112\006\007\217\304\267\007\261\115\006
\015\341\245\353\364\165\312\272\234\320\275\263\323\062\044\114
\356\176\342\166\004\113\111\123\330\362\351\124\063\374\345\161
\037\075\024\134\226\113\361\072\362\000\273\154\264\372\226\125
\010\210\011\301\314\221\031\051\260\040\055\377\313\070\244\100
\341\027\276\171\141\200\377\007\003\206\114\116\173\006\237\021
\206\215\211\356\047\304\333\342\274\031\216\013\303\303\023\307
\055\003\143\073\323\350\344\242\052\302\202\010\224\026\124\360
\357\037\047\220\045\270\015\016\050\033\107\167\107\275\034\250
\045\361\224\264\146
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "TC TrustCenter Universal CA III"
Issuer: CN=TC TrustCenter Universal CA III,OU=TC TrustCenter Universal CA,O=TC TrustCenter GmbH,C=DE
Serial Number:63:25:00:01:00:02:14:8d:33:15:02:e4:6c:f4
Subject: CN=TC TrustCenter Universal CA III,OU=TC TrustCenter Universal CA,O=TC TrustCenter

GmbH,C=DE
Not Valid Before: Wed Sep 09 08:15:27 2009
Not Valid After: Mon Dec 31 23:59:59 2029
Fingerprint (MD5): 9f:dd:db:ab:ff:8e:ff:45:21:5f:f0:6c:9d:8f:fe:2b
Fingerprint (SHA1): 96:56:cd:7b:57:96:98:95:d0:e1:41:46:68:06:fb:b8:c6:11:06:87
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TC TrustCenter Universal CA III"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\226\126\315\173\127\226\230\225\320\341\101\106\150\006\373\270
\306\021\006\207
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\237\335\333\253\377\216\377\105\041\137\360\154\235\217\376\053
END
CKA_ISSUER MULTILINE_OCTAL
\060\173\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\034\060\032\006\003\125\004\012\023\023\124\103\040\124\162\165
\163\164\103\145\156\164\145\162\040\107\155\142\110\061\044\060
\042\006\003\125\004\013\023\033\124\103\040\124\162\165\163\164
\103\145\156\164\145\162\040\125\156\151\166\145\162\163\141\154
\040\103\101\061\050\060\046\006\003\125\004\003\023\037\124\103
\040\124\162\165\163\164\103\145\156\164\145\162\040\125\156\151
\166\145\162\163\141\154\040\103\101\040\111\111\111
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\016\143\045\000\001\000\002\024\215\063\025\002\344\154\364
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "KEYNECTIS ROOT CA"
Issuer: CN=KEYNECTIS ROOT CA,OU=ROOT,O=KEYNECTIS,C=FR
Serial Number:11:21:bc:27:6c:55:47:af:58:4e:ef:d4:ce:d6:29:b2:a2:85
Subject: CN=KEYNECTIS ROOT CA,OU=ROOT,O=KEYNECTIS,C=FR
Not Valid Before: Tue May 26 00:00:00 2009
Not Valid After: Tue May 26 00:00:00 2020
Fingerprint (MD5): cc:4d:ae:fb:30:6b:d8:38:fe:50:eb:86:61:4b:d2:26
Fingerprint (SHA1): 9c:61:5c:4d:4d:85:10:3a:53:26:c2:4d:ba:ea:e4:a2:d2:d5:cc:97
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "KEYNECTIS ROOT CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\114\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\023\011\113\105\131\116\105\103
\124\111\123\061\015\060\013\006\003\125\004\013\023\004\122\117
\117\124\061\032\060\030\006\003\125\004\003\023\021\113\105\131
\116\105\103\124\111\123\040\122\117\117\124\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\023\011\113\105\131\116\105\103
\124\111\123\061\015\060\013\006\003\125\004\013\023\004\122\117
\117\124\061\032\060\030\006\003\125\004\003\023\021\113\105\131
\116\105\103\124\111\123\040\122\117\117\124\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\041\274\047\154\125\107\257\130\116\357\324\316\326
\051\262\242\205
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\345\060\202\002\315\240\003\002\001\002\002\022\021
\041\274\047\154\125\107\257\130\116\357\324\316\326\051\262\242
\205\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000
\060\114\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\023\011\113\105\131\116\105\103
\124\111\123\061\015\060\013\006\003\125\004\013\023\004\122\117
\117\124\061\032\060\030\006\003\125\004\003\023\021\113\105\131
\116\105\103\124\111\123\040\122\117\117\124\040\103\101\060\036
\027\015\060\071\060\065\062\066\060\060\060\060\060\060\132\027
\015\062\060\060\065\062\066\060\060\060\060\060\060\132\060\114
\061\013\060\011\006\003\125\004\006\023\002\106\122\061\022\060
\020\006\003\125\004\012\023\011\113\105\131\116\105\103\124\111
\123\061\015\060\013\006\003\125\004\013\023\004\122\117\117\124
\061\032\060\030\006\003\125\004\003\023\021\113\105\131\116\105
\103\124\111\123\040\122\117\117\124\040\103\101\060\202\001\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\001\017\000\060\202\001\012\002\202\001\001\000\306\375\263
\027\205\241\255\046\033\225\151\065\041\075\244\210\372\336\333
\140\066\100\027\151\302\024\143\373\270\331\302\164\025\067\056
\234\320\040\315\151\215\204\062\242\205\114\024\264\233\362\045
\263\124\052\203\077\055\276\017\363\073\144\321\377\240\120\357
\167\117\073\116\341\077\013\144\205\232\272\130\176\322\303\142
\323\144\045\242\324\262\227\074\167\135\143\052\063\222\374\315
\202\015\233\124\225\207\365\265\353\214\315\133\321\312\060\057
\311\210\106\265\315\015\021\264\030\217\356\321\241\076\135\025
\350\050\317\337\303\220\233\154\314\321\014\105\167\263\072\353

\212\220\035\351\257\144\152\211\173\251\075\103\164\372\344\147
\042\241\373\334\115\304\365\142\311\312\045\264\311\200\140\063
\251\335\173\240\002\277\226\045\012\136\311\137\051\173\264\027
\201\213\155\201\031\320\331\203\134\005\217\101\151\032\151\103
\200\237\250\257\340\351\214\221\213\047\053\242\046\140\315\017
\362\244\243\002\203\216\030\201\302\027\212\103\025\371\155\363
\035\020\244\132\234\104\141\043\041\172\330\373\321\002\003\001
\000\001\243\201\300\060\201\275\060\022\006\003\125\035\023\001
\001\377\004\010\060\006\001\001\377\002\001\004\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\006\060\127\006\003
\125\035\037\004\120\060\116\060\114\240\112\240\110\206\106\150
\164\164\160\072\057\057\164\162\165\163\164\143\145\156\164\145
\162\055\143\162\154\056\143\145\162\164\151\146\151\143\141\164
\062\056\143\157\155\057\113\145\171\156\145\143\164\151\163\057
\113\105\131\116\105\103\124\111\123\137\122\117\117\124\137\103
\101\056\143\162\154\060\035\006\003\125\035\016\004\026\004\024
\357\267\043\227\320\250\221\177\246\317\246\041\300\064\237\314
\167\101\341\320\060\037\006\003\125\035\043\004\030\060\026\200
\024\357\267\043\227\320\250\221\177\246\317\246\041\300\064\237
\314\167\101\341\320\060\015\006\011\052\206\110\206\367\015\001
\001\013\005\000\003\202\001\001\000\032\061\151\231\102\302\345
\100\205\242\237\222\303\143\324\217\041\071\250\031\041\376\172
\374\303\115\100\363\053\350\113\254\133\114\131\223\306\334\176
\013\257\174\137\225\205\153\275\307\157\272\301\276\370\306\072
\147\113\223\306\005\151\076\044\055\360\033\221\306\076\077\354
\102\030\223\154\003\044\212\156\371\040\147\053\174\155\253\064
\311\052\042\063\015\327\175\217\356\322\066\144\102\310\065\232
\156\031\141\313\215\147\360\150\247\320\044\005\346\303\027\272
\105\256\174\103\265\200\170\003\115\040\163\005\374\103\020\235
\065\151\102\165\224\045\202\053\246\073\220\030\336\301\251\257
\363\055\225\277\225\247\317\030\227\341\131\342\242\257\032\026
\141\015\367\023\161\123\223\067\375\074\257\000\035\154\213\024
\257\106\226\214\266\122\174\314\055\116\315\341\351\113\012\356
\232\376\172\230\347\051\272\033\332\034\272\334\153\315\004\016
\046\100\251\353\163\074\376\120\250\021\047\125\275\333\216\113
\357\117\030\355\025\377\275\206\230\146\356\232\045\161\064\154
\120\361\262\121\313\146\235\115\051
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "KEYNECTIS ROOT CA"
Issuer: CN=KEYNECTIS ROOT CA,OU=ROOT,O=KEYNECTIS,C=FR
Serial Number:11:21:bc:27:6c:55:47:af:58:4e:ef:d4:ce:d6:29:b2:a2:85
Subject: CN=KEYNECTIS ROOT CA,OU=ROOT,O=KEYNECTIS,C=FR
Not Valid Before: Tue May 26 00:00:00 2009

Not Valid After: Tue May 26 00:00:00 2020
Fingerprint (MD5): cc:4d:ae:fb:30:6b:d8:38:fe:50:eb:86:61:4b:d2:26
Fingerprint (SHA1): 9c:61:5c:4d:4d:85:10:3a:53:26:c2:4d:ba:ea:e4:a2:d2:d5:cc:97
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "KEYNECTIS ROOT CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\234\141\134\115\115\205\020\072\123\046\302\115\272\352\344\242
\322\325\314\227
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\314\115\256\373\060\153\330\070\376\120\353\206\141\113\322\046
END
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\023\011\113\105\131\116\105\103
\124\111\123\061\015\060\013\006\003\125\004\013\023\004\122\117
\117\124\061\032\060\030\006\003\125\004\003\023\021\113\105\131
\116\105\103\124\111\123\040\122\117\117\124\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\041\274\047\154\125\107\257\130\116\357\324\316\326
\051\262\242\205
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "I.CA - Standard Certification Authority, 09/2009"
Issuer: OU=I.CA - Provider of Certification Services,O=První certifikaní autorita\, a.s.,CN=I.CA - Standard Certification Authority\, 09/2009,C=CZ
Serial Number:16:e3:60
Subject: OU=I.CA - Provider of Certification Services,O=První certifikaní autorita\, a.s.,CN=I.CA - Standard Certification Authority\, 09/2009,C=CZ
Not Valid Before: Tue Sep 01 00:00:00 2009
Not Valid After: Sun Sep 01 00:00:00 2019
Fingerprint (MD5): 86:ef:8e:31:9d:9f:85:69:a2:a4:1a:12:71:68:ba:1b
Fingerprint (SHA1): 90:de:ce:77:f8:c8:25:34:0e:62:eb:d6:35:e1:be:20:cf:73:27:dd
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "I.CA - Standard Certification Authority, 09/2009"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\201\253\061\013\060\011\006\003\125\004\006\023\002\103\132
\061\071\060\067\006\003\125\004\003\014\060\111\056\103\101\040
\055\040\123\164\141\156\144\141\162\144\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\054\040\060\071\057\062\060\060\071\061\055\060\053\006
\003\125\004\012\014\044\120\162\166\156\303\255\040\143\145\162
\164\151\146\151\153\141\304\215\156\303\255\040\141\165\164\157
\162\151\164\141\054\040\141\056\163\056\061\062\060\060\006\003
\125\004\013\014\051\111\056\103\101\040\055\040\120\162\157\166
\151\144\145\162\040\157\146\040\103\145\162\164\151\146\151\143
\141\164\151\157\156\040\123\145\162\166\151\143\145\163
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\253\061\013\060\011\006\003\125\004\006\023\002\103\132
\061\071\060\067\006\003\125\004\003\014\060\111\056\103\101\040
\055\040\123\164\141\156\144\141\162\144\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\054\040\060\071\057\062\060\060\071\061\055\060\053\006
\003\125\004\012\014\044\120\162\166\156\303\255\040\143\145\162
\164\151\146\151\153\141\304\215\156\303\255\040\141\165\164\157
\162\151\164\141\054\040\141\056\163\056\061\062\060\060\006\003
\125\004\013\014\051\111\056\103\101\040\055\040\120\162\157\166
\151\144\145\162\040\157\146\040\103\145\162\164\151\146\151\143
\141\164\151\157\156\040\123\145\162\166\151\143\145\163
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\026\343\140
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\052\060\202\003\022\240\003\002\001\002\002\003\026
\343\140\060\015\006\011\052\206\110\206\367\015\001\001\013\005
\000\060\201\253\061\013\060\011\006\003\125\004\006\023\002\103
\132\061\071\060\067\006\003\125\004\003\014\060\111\056\103\101
\040\055\040\123\164\141\156\144\141\162\144\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\054\040\060\071\057\062\060\060\071\061\055\060\053
\006\003\125\004\012\014\044\120\162\166\156\303\255\040\143\145
\162\164\151\146\151\153\141\304\215\156\303\255\040\141\165\164
\157\162\151\164\141\054\040\141\056\163\056\061\062\060\060\006
\003\125\004\013\014\051\111\056\103\101\040\055\040\120\162\157
\166\151\144\145\162\040\157\146\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\123\145\162\166\151\143\145\163\060
\036\027\015\060\071\060\071\060\061\060\060\060\060\060\060\132
\027\015\061\071\060\071\060\061\060\060\060\060\060\060\132\060
\201\253\061\013\060\011\006\003\125\004\006\023\002\103\132\061
\071\060\067\006\003\125\004\003\014\060\111\056\103\101\040\055

\040\123\164\141\156\144\141\162\144\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\054\040\060\071\057\062\060\060\071\061\055\060\053\006\003
\125\004\012\014\044\120\162\166\156\303\255\040\143\145\162\164
\151\146\151\153\141\304\215\156\303\255\040\141\165\164\157\162
\151\164\141\054\040\141\056\163\056\061\062\060\060\006\003\125
\004\013\014\051\111\056\103\101\040\055\040\120\162\157\166\151
\144\145\162\040\157\146\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\123\145\162\166\151\143\145\163\060\202\001
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000
\003\202\001\017\000\060\202\001\012\002\202\001\001\000\250\010
\126\022\077\373\224\203\251\140\166\275\105\203\176\226\064\074
\317\111\116\326\317\374\040\341\341\261\002\024\155\255\312\176
\120\162\051\251\375\234\167\046\070\144\367\103\101\077\024\202
\004\242\101\220\002\347\231\367\203\142\170\104\205\350\235\005
\160\324\376\170\241\164\064\307\254\073\205\002\335\356\121\133
\106\073\123\063\326\147\354\354\024\056\343\304\345\263\164\203
\000\314\306\226\346\034\203\332\334\030\120\151\372\335\103\321
\216\100\375\026\244\267\214\145\207\340\276\254\227\037\260\161
\353\000\145\127\026\316\154\207\257\227\210\360\135\367\207\115
\072\021\012\242\302\104\024\300\026\362\117\365\333\225\102\257
\051\263\051\240\203\121\156\376\074\121\127\223\060\045\046\272
\073\152\206\310\366\013\321\161\077\234\267\072\310\316\147\011
\214\372\100\033\172\154\336\310\034\240\306\134\273\141\030\210
\077\056\131\035\126\374\172\105\234\246\331\070\331\305\140\314
\271\101\125\267\312\274\115\356\264\247\304\366\240\016\274\211
\305\001\225\261\134\337\117\360\314\302\315\102\273\137\002\003
\001\000\001\243\125\060\123\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\016\006\003\125\035\017\001
\001\377\004\004\003\002\001\006\060\021\006\003\125\035\040\004
\012\060\010\060\006\006\004\125\035\040\000\060\035\006\003\125
\035\016\004\026\004\024\301\114\070\224\325\200\206\110\331\042
\220\054\323\356\031\020\333\147\107\207\060\015\006\011\052\206
\110\206\367\015\001\001\013\005\000\003\202\001\001\000\243\313
\321\175\164\373\065\170\007\222\350\356\150\351\344\122\136\360
\330\143\221\224\237\150\373\276\133\272\251\341\143\167\253\120
\166\306\351\126\107\124\120\231\264\045\213\350\301\031\162\066
\132\011\276\347\326\372\302\266\062\075\107\303\120\116\231\156
\223\066\305\212\121\167\143\340\111\063\253\074\037\212\351\073
\331\206\265\050\307\302\165\161\133\146\152\215\130\016\363\165
\220\265\255\054\201\030\315\234\330\303\315\117\361\373\151\040
\227\300\110\317\023\105\022\265\034\366\076\203\342\116\136\335
\131\306\153\112\340\110\316\331\052\235\145\072\275\057\360\360
\114\274\011\172\313\067\000\244\077\073\014\043\335\343\373\306
\102\242\264\266\346\322\162\205\114\337\263\336\026\247\176\035
\347\324\317\255\253\263\120\344\160\214\337\260\160\220\311\206
\236\356\174\204\213\144\034\153\341\150\025\176\311\245\164\340
\116\367\132\352\335\022\061\253\221\100\205\161\013\316\051\050

\371\156\070\024\134\035\376\354\021\277\115\103\176\236\137\070
\277\327\352\236\223\057\320\035\164\265\005\011\323\042
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "I.CA - Standard Certification Authority, 09/2009"
Issuer: OU=I.CA - Provider of Certification Services,O=První certifikaní autorita\, a.s.,CN=I.CA - Standard Certification Authority\, 09/2009,C=CZ
Serial Number:16:e3:60
Subject: OU=I.CA - Provider of Certification Services,O=První certifikaní autorita\, a.s.,CN=I.CA - Standard Certification Authority\, 09/2009,C=CZ
Not Valid Before: Tue Sep 01 00:00:00 2009
Not Valid After: Sun Sep 01 00:00:00 2019
Fingerprint (MD5): 86:ef:8e:31:9d:9f:85:69:a2:a4:1a:12:71:68:ba:1b
Fingerprint (SHA1): 90:de:ce:77:f8:c8:25:34:0e:62:eb:d6:35:e1:be:20:cf:73:27:dd
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "I.CA - Standard Certification Authority, 09/2009"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\220\336\316\167\370\310\045\064\016\142\353\326\065\341\276\040
\317\163\047\335
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\206\357\216\061\235\237\205\151\242\244\032\022\161\150\272\033
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\253\061\013\060\011\006\003\125\004\006\023\002\103\132
\061\071\060\067\006\003\125\004\003\014\060\111\056\103\101\040
\055\040\123\164\141\156\144\141\162\144\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\054\040\060\071\057\062\060\060\071\061\055\060\053\006
\003\125\004\012\014\044\120\162\166\156\303\255\040\143\145\162
\164\151\146\151\153\141\304\215\156\303\255\040\141\165\164\157
\162\151\164\141\054\040\141\056\163\056\061\062\060\060\006\003
\125\004\013\014\051\111\056\103\101\040\055\040\120\162\157\166
\151\144\145\162\040\157\146\040\103\145\162\164\151\146\151\143
\141\164\151\157\156\040\123\145\162\166\151\143\145\163
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\026\343\140
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "I.CA - Qualified Certification Authority, 09/2009"
Issuer: OU=I.CA - Accredited Provider of Certification Services,O=První certifikaní autorita\, a.s.,CN=I.CA - Qualified Certification Authority\, 09/2009,C=CZ
Serial Number:a0:37:a0
Subject: OU=I.CA - Accredited Provider of Certification Services,O=První certifikaní autorita\, a.s.,CN=I.CA - Qualified Certification Authority\, 09/2009,C=CZ
Not Valid Before: Tue Sep 01 00:00:00 2009
Not Valid After: Sun Sep 01 00:00:00 2019
Fingerprint (MD5): 8d:63:9b:56:c1:14:e4:ee:9a:12:85:86:11:90:82:a3
Fingerprint (SHA1): d2:44:1a:a8:c2:03:ae:ca:a9:6e:50:1f:12:4d:52:b6:8f:e4:c3:75
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "I.CA - Qualified Certification Authority, 09/2009"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\267\061\013\060\011\006\003\125\004\006\023\002\103\132
\061\072\060\070\006\003\125\004\003\014\061\111\056\103\101\040
\055\040\121\165\141\154\151\146\151\145\144\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\054\040\060\071\057\062\060\060\071\061\055\060\053
\006\003\125\004\012\014\044\120\162\166\156\303\255\040\143\145
\162\164\151\146\151\153\141\304\215\156\303\255\040\141\165\164
\157\162\151\164\141\054\040\141\056\163\056\061\075\060\073\006
\003\125\004\013\014\064\111\056\103\101\040\055\040\101\143\143
\162\145\144\151\164\145\144\040\120\162\157\166\151\144\145\162
\040\157\146\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\123\145\162\166\151\143\145\163
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\267\061\013\060\011\006\003\125\004\006\023\002\103\132
\061\072\060\070\006\003\125\004\003\014\061\111\056\103\101\040
\055\040\121\165\141\154\151\146\151\145\144\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\054\040\060\071\057\062\060\060\071\061\055\060\053
\006\003\125\004\012\014\044\120\162\166\156\303\255\040\143\145
\162\164\151\146\151\153\141\304\215\156\303\255\040\141\165\164
\157\162\151\164\141\054\040\141\056\163\056\061\075\060\073\006
\003\125\004\013\014\064\111\056\103\101\040\055\040\101\143\143
\162\145\144\151\164\145\144\040\120\162\157\166\151\144\145\162
\040\157\146\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\123\145\162\166\151\143\145\163

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\000\240\067\240
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\036\060\202\004\006\240\003\002\001\002\002\004\000
\240\067\240\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\201\267\061\013\060\011\006\003\125\004\006\023\002
\103\132\061\072\060\070\006\003\125\004\003\014\061\111\056\103
\101\040\055\040\121\165\141\154\151\146\151\145\144\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171\054\040\060\071\057\062\060\060\071\061\055
\060\053\006\003\125\004\012\014\044\120\162\166\156\303\255\040
\143\145\162\164\151\146\151\153\141\304\215\156\303\255\040\141
\165\164\157\162\151\164\141\054\040\141\056\163\056\061\075\060
\073\006\003\125\004\013\014\064\111\056\103\101\040\055\040\101
\143\143\162\145\144\151\164\145\144\040\120\162\157\166\151\144
\145\162\040\157\146\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\123\145\162\166\151\143\145\163\060\036\027\015
\060\071\060\071\060\061\060\060\060\060\060\060\132\027\015\061
\071\060\071\060\061\060\060\060\060\060\060\132\060\201\267\061
\013\060\011\006\003\125\004\006\023\002\103\132\061\072\060\070
\006\003\125\004\003\014\061\111\056\103\101\040\055\040\121\165
\141\154\151\146\151\145\144\040\103\145\162\164\151\146\151\143
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\054
\040\060\071\057\062\060\060\071\061\055\060\053\006\003\125\004
\012\014\044\120\162\166\156\303\255\040\143\145\162\164\151\146
\151\153\141\304\215\156\303\255\040\141\165\164\157\162\151\164
\141\054\040\141\056\163\056\061\075\060\073\006\003\125\004\013
\014\064\111\056\103\101\040\055\040\101\143\143\162\145\144\151
\164\145\144\040\120\162\157\166\151\144\145\162\040\157\146\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145
\162\166\151\143\145\163\060\202\001\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202
\001\012\002\202\001\001\000\265\066\204\313\102\202\360\317\145
\342\124\232\130\163\054\343\353\025\127\122\360\317\042\130\210
\204\015\170\052\357\324\161\346\375\212\106\041\326\077\147\256
\064\161\346\247\222\064\057\041\176\346\333\160\112\340\344\202
\350\243\274\221\226\000\337\072\051\073\076\206\024\043\212\127
\143\357\056\351\033\163\347\066\212\141\172\220\261\304\277\252
\215\003\305\261\204\366\321\337\022\260\224\160\360\007\154\241
\133\072\073\127\164\025\200\064\106\363\173\056\202\244\047\264
\246\002\334\271\345\114\146\311\244\323\376\003\076\366\202\223
\275\000\165\047\374\200\141\026\116\044\261\317\045\141\055\213
\364\140\262\364\053\046\164\244\201\077\277\051\367\017\013\307
\273\303\056\251\003\202\335\177\314\032\334\121\151\222\111\276
\300\023\360\117\021\343\053\311\005\165\041\322\072\236\121\247
\006\025\244\134\346\037\350\144\235\153\042\160\363\246\355\273

\020\273\276\040\312\066\266\351\343\201\343\101\026\222\306\172
\172\073\167\255\243\134\170\015\370\230\167\017\330\154\221\136
\354\110\344\305\044\001\313\002\003\001\000\001\243\202\001\056
\060\202\001\052\060\017\006\003\125\035\023\001\001\377\004\005
\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377\004
\004\003\002\001\006\060\201\347\006\003\125\035\040\004\201\337
\060\201\334\060\201\331\006\004\125\035\040\000\060\201\320\060
\201\315\006\010\053\006\001\005\005\007\002\002\060\201\300\032
\201\275\124\145\156\164\157\040\143\145\162\164\151\146\151\153
\141\164\040\152\145\040\166\171\144\141\156\040\152\141\153\157
\040\153\166\141\154\151\146\151\153\157\166\141\156\171\040\163
\171\163\164\145\155\157\166\171\040\143\145\162\164\151\146\151
\153\141\164\040\160\157\144\154\145\040\172\141\153\157\156\141
\040\143\056\040\062\062\067\057\062\060\060\060\040\123\142\056
\040\166\040\160\154\141\164\156\145\155\040\172\156\145\156\151
\057\124\150\151\163\040\151\163\040\161\165\141\154\151\146\151
\145\144\040\163\171\163\164\145\155\040\143\145\162\164\151\146
\151\143\141\164\145\040\141\143\143\157\162\144\151\156\147\040
\164\157\040\103\172\145\143\150\040\101\143\164\040\116\157\056
\040\062\062\067\057\062\060\060\060\040\103\157\154\154\056\060
\035\006\003\125\035\016\004\026\004\024\171\313\320\043\351\072
\147\160\221\164\117\323\121\342\340\040\375\341\050\373\060\015
\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202\001
\001\000\175\225\245\066\327\210\130\150\021\317\145\373\133\015
\057\366\164\201\213\131\331\235\111\270\365\071\226\311\360\262
\017\004\314\130\214\372\004\062\254\300\107\276\055\303\336\223
\213\246\226\105\256\126\164\345\232\113\242\077\252\046\304\050
\126\141\044\005\127\137\231\244\307\147\260\030\122\311\373\101
\250\371\344\361\236\062\316\236\025\105\331\135\254\373\236\333
\233\307\074\217\257\333\113\242\043\350\073\051\160\161\030\245
\370\343\207\256\041\023\152\364\151\052\131\016\061\263\050\123
\072\142\232\254\010\223\174\251\207\266\137\132\246\030\302\320
\302\363\135\214\157\247\077\060\211\070\353\224\023\052\110\132
\336\171\345\220\313\136\244\271\027\266\143\006\071\137\310\066
\143\021\364\266\022\317\110\166\211\074\152\127\371\353\163\042
\367\372\076\005\256\072\300\306\016\222\115\317\324\211\124\321
\032\202\152\067\133\226\050\250\000\042\203\316\320\052\271\263
\215\123\130\056\145\134\325\362\333\214\001\045\163\154\227\213
\374\140\001\354\100\223\301\355\121\270\252\313\142\330\045\060
\242\075
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "I.CA - Qualified Certification Authority, 09/2009"
Issuer: OU=I.CA - Accredited Provider of Certification Services,O=První certifikaní autorita\, a.s.,CN=I.CA -

Qualified Certification Authority\, 09/2009,C=CZ
Serial Number:a0:37:a0
Subject: OU=I.CA - Accredited Provider of Certification Services,O=První certifikaní autorita\, a.s.,CN=I.CA - Qualified Certification Authority\, 09/2009,C=CZ
Not Valid Before: Tue Sep 01 00:00:00 2009
Not Valid After: Sun Sep 01 00:00:00 2019
Fingerprint (MD5): 8d:63:9b:56:c1:14:e4:ee:9a:12:85:86:11:90:82:a3
Fingerprint (SHA1): d2:44:1a:a8:c2:03:ae:ca:a9:6e:50:1f:12:4d:52:b6:8f:e4:c3:75
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "I.CA - Qualified Certification Authority, 09/2009"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\322\104\032\250\302\003\256\312\251\156\120\037\022\115\122\266
\217\344\303\165
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\215\143\233\126\301\024\344\356\232\022\205\206\021\220\202\243
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\267\061\013\060\011\006\003\125\004\006\023\002\103\132
\061\072\060\070\006\003\125\004\003\014\061\111\056\103\101\040
\055\040\121\165\141\154\151\146\151\145\144\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\054\040\060\071\057\062\060\060\071\061\055\060\053
\006\003\125\004\012\014\044\120\162\166\156\303\255\040\143\145
\162\164\151\146\151\153\141\304\215\156\303\255\040\141\165\164
\157\162\151\164\141\054\040\141\056\163\056\061\075\060\073\006
\003\125\004\013\014\064\111\056\103\101\040\055\040\101\143\143
\162\145\144\151\164\145\144\040\120\162\157\166\151\144\145\162
\040\157\146\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\123\145\162\166\151\143\145\163
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\000\240\067\240
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "VI Registru Centras RCSC (RootCA)"
Issuer: CN=VI Registru Centras RCSC (RootCA),OU=Registru Centro Sertifikavimo Centras,O=VI Registru Centras - I.k. 124110246,C=LT
Serial Number:03:a3:a4:57:b5:f0:f3:86:4a:11:63:e8:98:ff:16:9c
Subject: CN=VI Registru Centras RCSC (RootCA),OU=Registru Centro Sertifikavimo Centras,O=VI Registru

Centras - I.k. 124110246,C=LT
Not Valid Before: Mon Jul 21 11:47:46 2008
Not Valid After: Sun Jul 21 11:47:46 2024
Fingerprint (MD5): 41:5b:95:78:0d:d1:c3:a7:dc:d9:ba:fe:e7:27:b6:14
Fingerprint (SHA1): 97:1d:34:86:fc:1e:8e:63:15:f7:c6:f2:e1:29:67:c7:24:34:22:14
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "VI Registru Centras RCSC (RootCA)"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\230\061\013\060\011\006\003\125\004\006\023\002\114\124
\061\055\060\053\006\003\125\004\012\023\044\126\111\040\122\145
\147\151\163\164\162\165\040\103\145\156\164\162\141\163\040\055
\040\111\056\153\056\040\061\062\064\061\061\060\062\064\066\061
\056\060\054\006\003\125\004\013\023\045\122\145\147\151\163\164
\162\165\040\103\145\156\164\162\157\040\123\145\162\164\151\146
\151\153\141\166\151\155\157\040\103\145\156\164\162\141\163\061
\052\060\050\006\003\125\004\003\023\041\126\111\040\122\145\147
\151\163\164\162\165\040\103\145\156\164\162\141\163\040\122\103
\123\103\040\050\122\157\157\164\103\101\051
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\230\061\013\060\011\006\003\125\004\006\023\002\114\124
\061\055\060\053\006\003\125\004\012\023\044\126\111\040\122\145
\147\151\163\164\162\165\040\103\145\156\164\162\141\163\040\055
\040\111\056\153\056\040\061\062\064\061\061\060\062\064\066\061
\056\060\054\006\003\125\004\013\023\045\122\145\147\151\163\164
\162\165\040\103\145\156\164\162\157\040\123\145\162\164\151\146
\151\153\141\166\151\155\157\040\103\145\156\164\162\141\163\061
\052\060\050\006\003\125\004\003\023\041\126\111\040\122\145\147
\151\163\164\162\165\040\103\145\156\164\162\141\163\040\122\103
\123\103\040\050\122\157\157\164\103\101\051
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\003\243\244\127\265\360\363\206\112\021\143\350\230\377
\026\234
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\212\060\202\004\162\240\003\002\001\002\002\020\003
\243\244\127\265\360\363\206\112\021\143\350\230\377\026\234\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\201
\230\061\013\060\011\006\003\125\004\006\023\002\114\124\061\055
\060\053\006\003\125\004\012\023\044\126\111\040\122\145\147\151
\163\164\162\165\040\103\145\156\164\162\141\163\040\055\040\111
\056\153\056\040\061\062\064\061\061\060\062\064\066\061\056\060

\054\006\003\125\004\013\023\045\122\145\147\151\163\164\162\165
\040\103\145\156\164\162\157\040\123\145\162\164\151\146\151\153
\141\166\151\155\157\040\103\145\156\164\162\141\163\061\052\060
\050\006\003\125\004\003\023\041\126\111\040\122\145\147\151\163
\164\162\165\040\103\145\156\164\162\141\163\040\122\103\123\103
\040\050\122\157\157\164\103\101\051\060\036\027\015\060\070\060
\067\062\061\061\061\064\067\064\066\132\027\015\062\064\060\067
\062\061\061\061\064\067\064\066\132\060\201\230\061\013\060\011
\006\003\125\004\006\023\002\114\124\061\055\060\053\006\003\125
\004\012\023\044\126\111\040\122\145\147\151\163\164\162\165\040
\103\145\156\164\162\141\163\040\055\040\111\056\153\056\040\061
\062\064\061\061\060\062\064\066\061\056\060\054\006\003\125\004
\013\023\045\122\145\147\151\163\164\162\165\040\103\145\156\164
\162\157\040\123\145\162\164\151\146\151\153\141\166\151\155\157
\040\103\145\156\164\162\141\163\061\052\060\050\006\003\125\004
\003\023\041\126\111\040\122\145\147\151\163\164\162\165\040\103
\145\156\164\162\141\163\040\122\103\123\103\040\050\122\157\157
\164\103\101\051\060\202\002\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012
\002\202\002\001\000\310\231\362\042\307\263\207\025\056\247\313
\115\106\253\147\227\317\017\163\167\003\367\144\174\166\110\062
\040\364\243\330\131\235\024\251\037\240\036\221\016\015\255\365
\376\147\222\221\023\040\041\115\012\125\156\161\372\254\027\313
\000\375\016\120\002\063\333\251\330\275\141\032\375\340\020\127
\261\125\171\140\031\264\124\171\236\373\200\060\342\310\102\311
\122\002\010\330\254\057\303\161\101\124\002\365\201\212\022\343
\151\002\245\207\241\160\175\005\276\245\142\277\005\260\010\226
\107\157\177\223\212\255\340\254\323\102\336\275\346\217\024\345
\163\050\240\003\233\101\372\345\076\367\071\164\056\144\364\237
\113\300\365\170\231\124\153\345\025\040\374\351\062\162\100\253
\145\165\274\074\106\064\322\370\020\141\307\014\170\307\174\300
\021\121\321\005\066\373\370\234\377\055\270\345\161\055\111\360
\127\110\263\223\216\234\373\072\311\113\155\061\327\122\325\126
\351\204\056\221\324\002\035\262\200\005\201\305\200\312\051\301
\064\147\271\257\004\060\103\366\257\102\107\336\374\001\056\350
\102\234\276\262\013\024\344\064\334\335\255\123\204\172\330\003
\126\321\302\014\324\227\051\370\114\362\265\034\337\235\203\256
\137\132\045\113\242\260\050\345\277\132\013\320\234\250\234\160
\052\155\016\056\341\047\277\255\013\157\021\323\370\106\055\364
\227\104\113\312\260\310\346\066\157\042\272\216\344\122\225\026
\354\104\152\324\120\036\230\050\371\150\244\272\336\236\060\355
\242\311\122\241\311\065\212\100\341\215\233\233\375\361\106\213
\244\307\117\160\140\121\215\362\222\251\316\272\214\057\111\122
\022\147\320\365\253\004\045\100\164\003\342\330\255\241\164\130
\141\267\265\016\363\177\045\054\021\143\257\361\022\303\364\244
\163\232\144\254\356\246\006\217\362\274\234\254\050\251\134\025
\323\063\255\320\066\310\041\160\153\274\052\037\325\253\270\001
\130\166\374\073\021\115\373\362\034\110\044\021\375\115\217\031

\051\256\153\350\155\136\262\241\015\170\316\322\143\203\164\264
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\326\070\044\344\112\025\213\321\152\352\273\066\241\241\220\245
\123\310\245\326\145\002\003\001\000\001\243\201\315\060\201\312
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006
\060\057\006\010\053\006\001\005\005\007\001\003\004\043\060\041
\060\010\006\006\004\000\216\106\001\001\060\013\006\006\004\000
\216\106\001\003\002\001\012\060\010\006\006\004\000\216\106\001
\004\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\035\006\003\125\035\016\004\026\004\024\274\163\076
\057\234\221\014\273\217\315\167\231\076\314\205\344\314\130\150
\021\060\020\006\011\053\006\001\004\001\202\067\025\001\004\003
\002\001\000\060\105\006\003\125\035\040\004\076\060\074\060\072
\006\013\053\006\001\004\001\201\361\067\001\001\001\060\053\060
\051\006\010\053\006\001\005\005\007\002\001\026\035\150\164\164
\160\072\057\057\167\167\167\056\162\143\163\143\056\154\164\057
\162\145\160\157\163\151\164\157\162\171\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\003\202\002\001\000\031\170
\054\121\023\137\274\231\116\134\247\001\374\336\266\376\251\035
\206\061\021\173\172\231\212\263\210\222\245\140\322\004\143\071
\274\257\216\330\361\053\105\162\062\051\074\055\342\331\330\075
\164\372\107\065\207\334\020\000\066\101\075\355\252\176\262\314
\304\032\351\061\264\365\221\321\204\112\347\365\334\317\106\147
\002\231\257\270\167\372\176\355\041\157\226\043\024\161\077\320
\130\276\252\333\103\054\067\240\035\006\151\064\360\117\217\165
\356\263\322\001\273\354\034\351\217\251\211\357\370\324\033\101
\002\231\276\360\137\272\216\054\302\041\160\336\121\201\330\367
\274\270\303\063\203\303\227\312\011\163\304\351\167\310\162\364
\134\255\017\015\212\352\355\322\012\001\316\353\127\235\025\360
\051\025\357\131\234\257\254\222\202\160\014\230\330\042\235\057
\230\065\251\321\212\211\274\325\235\125\302\056\236\007\045\106
\366\222\115\120\372\075\211\362\337\223\277\223\224\320\331\257
\127\243\363\146\346\216\361\350\240\033\030\006\223\132\054\211
\015\066\304\372\040\263\334\050\365\152\356\217\061\233\131\070
\330\116\152\240\043\041\344\206\253\345\373\140\243\321\315\132
\054\102\111\246\016\125\044\045\065\375\322\072\257\153\130\246
\221\106\137\151\313\275\176\046\233\336\010\275\036\354\236\246
\370\234\165\244\100\066\225\113\042\117\306\266\175\162\121\274
\343\302\150\315\315\345\213\276\300\302\117\233\156\145\316\026
\267\010\210\307\207\336\377\062\214\313\353\102\101\254\373\327
\317\001\103\370\157\300\326\013\360\367\222\351\313\105\135\144
\261\367\312\074\273\211\010\226\311\332\016\341\161\052\017\354
\244\102\055\343\152\017\107\107\260\123\246\326\205\120\227\060
\327\214\056\137\106\042\320\254\316\074\136\234\036\162\203\375
\014\247\370\027\062\273\141\336\343\117\057\030\216\202\265\207
\033\164\005\060\112\277\152\036\110\074\124\050\261\135\235\222
\137\233\020\343\056\042\212\257\335\066\144\177\023\166\107\203
\065\225\032\224\217\365\304\123\155\071\275\325\213\365\312\317

\030\103\005\001\223\244\066\336\060\322\024\363\260\144\265\312
\316\225\367\272\164\354\212\163\076\122\323\136\123\000
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "VI Registru Centras RCSC (RootCA)"
Issuer: CN=VI Registru Centras RCSC (RootCA),OU=Registru Centro Sertifikavimo Centras,O=VI Registru Centras - I.k. 124110246,C=LT
Serial Number:03:a3:a4:57:b5:f0:f3:86:4a:11:63:e8:98:ff:16:9c
Subject: CN=VI Registru Centras RCSC (RootCA),OU=Registru Centro Sertifikavimo Centras,O=VI Registru Centras - I.k. 124110246,C=LT
Not Valid Before: Mon Jul 21 11:47:46 2008
Not Valid After: Sun Jul 21 11:47:46 2024
Fingerprint (MD5): 41:5b:95:78:0d:d1:c3:a7:dc:d9:ba:fe:e7:27:b6:14
Fingerprint (SHA1): 97:1d:34:86:fc:1e:8e:63:15:f7:c6:f2:e1:29:67:c7:24:34:22:14
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "VI Registru Centras RCSC (RootCA)"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\227\035\064\206\374\036\216\143\025\367\306\362\341\051\147\307
\044\064\042\024
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\101\133\225\170\015\321\303\247\334\331\272\376\347\047\266\024
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\230\061\013\060\011\006\003\125\004\006\023\002\114\124
\061\055\060\053\006\003\125\004\012\023\044\126\111\040\122\145
\147\151\163\164\162\165\040\103\145\156\164\162\141\163\040\055
\040\111\056\153\056\040\061\062\064\061\061\060\062\064\066\061
\056\060\054\006\003\125\004\013\023\045\122\145\147\151\163\164
\162\165\040\103\145\156\164\162\157\040\123\145\162\164\151\146
\151\153\141\166\151\155\157\040\103\145\156\164\162\141\163\061
\052\060\050\006\003\125\004\003\023\041\126\111\040\122\145\147
\151\163\164\162\165\040\103\145\156\164\162\141\163\040\122\103
\123\103\040\050\122\157\157\164\103\101\051
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\003\243\244\127\265\360\363\206\112\021\143\350\230\377
\026\234
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "CCA India 2007"
Issuer: CN=CCA India 2007,O=India PKI,C=IN
Serial Number: 10112 (0x2780)
Subject: CN=CCA India 2007,O=India PKI,C=IN
Not Valid Before: Wed Jun 13 07:02:48 2007
Not Valid After: Sat Jul 04 07:02:48 2015
Fingerprint (MD5): 69:60:ec:be:8c:94:d7:6e:6f:2e:c4:78:2f:55:f0:83
Fingerprint (SHA1): 97:22:6a:ae:4a:7a:64:a5:9b:d1:67:87:f2:7f:84:1c:0a:00:1f:d0
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CCA India 2007"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\072\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\022\060\020\006\003\125\004\012\023\011\111\156\144\151\141\040
\120\113\111\061\027\060\025\006\003\125\004\003\023\016\103\103
\101\040\111\156\144\151\141\040\062\060\060\067
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\072\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\022\060\020\006\003\125\004\012\023\011\111\156\144\151\141\040
\120\113\111\061\027\060\025\006\003\125\004\003\023\016\103\103
\101\040\111\156\144\151\141\040\062\060\060\067
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\047\200
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\043\060\202\002\013\240\003\002\001\002\002\002\047
\200\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000
\060\072\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\022\060\020\006\003\125\004\012\023\011\111\156\144\151\141\040
\120\113\111\061\027\060\025\006\003\125\004\003\023\016\103\103
\101\040\111\156\144\151\141\040\062\060\060\067\060\036\027\015
\060\067\060\066\061\063\060\067\060\062\064\070\132\027\015\061
\065\060\067\060\064\060\067\060\062\064\070\132\060\072\061\013
\060\011\006\003\125\004\006\023\002\111\116\061\022\060\020\006
\003\125\004\012\023\011\111\156\144\151\141\040\120\113\111\061
\027\060\025\006\003\125\004\003\023\016\103\103\101\040\111\156
\144\151\141\040\062\060\060\067\060\202\001\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000

\060\202\001\012\002\202\001\001\000\337\217\307\312\112\234\322
\107\342\216\062\202\236\121\351\010\011\167\374\267\176\047\173
\116\135\153\370\210\157\350\013\343\300\066\233\200\351\345\060
\260\124\367\246\060\376\067\152\130\113\324\170\137\124\236\261
\076\171\075\017\023\127\342\106\225\072\035\134\141\065\202\355
\365\303\264\260\122\150\250\370\006\053\236\121\113\302\130\005
\364\313\231\147\254\232\041\055\071\320\370\317\230\210\233\037
\175\365\261\266\300\103\120\203\203\255\253\375\326\326\372\374
\365\017\306\115\247\112\005\225\236\270\132\131\061\124\015\270
\311\274\067\102\222\073\003\323\364\072\334\057\115\370\056\106
\031\255\007\032\045\153\143\125\346\366\135\315\106\333\225\111
\225\271\147\215\104\356\311\370\155\312\214\311\015\232\366\056
\147\337\171\223\307\102\070\144\052\307\121\071\244\005\226\333
\276\245\010\017\324\020\265\357\301\307\212\014\322\322\234\377
\311\061\345\121\131\015\053\100\342\211\047\366\225\333\261\344
\241\053\320\265\103\104\330\336\237\226\332\231\255\232\330\174
\334\043\220\264\005\046\322\214\355\002\003\001\000\001\243\063
\060\061\060\017\006\003\125\035\023\001\001\377\004\005\060\003
\001\001\377\060\021\006\003\125\035\016\004\012\004\010\117\036
\300\130\047\330\270\344\060\013\006\003\125\035\017\004\004\003
\002\001\006\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\003\202\001\001\000\162\206\117\110\202\350\305\360\331
\270\260\107\063\031\357\313\006\201\250\266\254\207\303\271\111
\225\222\052\201\130\327\053\216\242\270\047\240\114\023\120\235
\034\265\161\114\142\121\210\226\014\162\377\013\140\304\065\341
\370\045\156\271\301\341\247\126\072\376\206\343\115\300\253\332
\324\052\160\233\255\132\235\330\045\321\272\205\337\302\033\353
\064\326\010\167\003\060\144\177\326\366\021\011\215\255\176\236
\171\177\233\233\243\224\104\340\164\267\267\211\312\354\004\137
\213\317\342\353\343\106\333\066\367\235\061\256\206\164\251\235
\355\334\160\117\323\063\134\060\206\040\256\062\301\054\217\047
\064\266\167\136\000\032\222\212\276\210\331\070\133\324\303\132
\270\017\223\044\326\052\256\060\110\101\366\143\045\317\115\207
\051\236\263\253\364\364\254\107\204\131\052\317\375\355\257\224
\015\120\000\047\063\163\356\167\346\343\111\270\247\114\046\301
\316\221\152\027\262\322\101\265\251\232\335\330\115\325\343\020
\265\322\075\305\364\321\014\335\274\254\227\322\227\130\350\130
\026\005\232\306\255\275\152
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "CCA India 2007"
Issuer: CN=CCA India 2007,O=India PKI,C=IN
Serial Number: 10112 (0x2780)
Subject: CN=CCA India 2007,O=India PKI,C=IN

Not Valid Before: Wed Jun 13 07:02:48 2007
Not Valid After: Sat Jul 04 07:02:48 2015
Fingerprint (MD5): 69:60:ec:be:8c:94:d7:6e:6f:2e:c4:78:2f:55:f0:83
Fingerprint (SHA1): 97:22:6a:ae:4a:7a:64:a5:9b:d1:67:87:f2:7f:84:1c:0a:00:1f:d0
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CCA India 2007"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\227\042\152\256\112\172\144\245\233\321\147\207\362\177\204\034
\012\000\037\320
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\151\140\354\276\214\224\327\156\157\056\304\170\057\125\360\203
END
CKA_ISSUER MULTILINE_OCTAL
\060\072\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\022\060\020\006\003\125\004\012\023\011\111\156\144\151\141\040
\120\113\111\061\027\060\025\006\003\125\004\003\023\016\103\103
\101\040\111\156\144\151\141\040\062\060\060\067
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\047\200
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Autoridade Certificadora Raiz Brasileira v1"
Issuer: CN=Autoridade Certificadora Raiz Brasileira v1,OU=Instituto Nacional de Tecnologia da Informacao - ITI,O=ICP-Brasil,C=BR
Serial Number: 1 (0x1)
Subject: CN=Autoridade Certificadora Raiz Brasileira v1,OU=Instituto Nacional de Tecnologia da Informacao - ITI,O=ICP-Brasil,C=BR
Not Valid Before: Tue Jul 29 19:17:10 2008
Not Valid After: Thu Jul 29 19:17:10 2021
Fingerprint (MD5): 93:f1:ad:34:0b:2b:e7:a8:54:60:e2:73:8c:a4:94:31
Fingerprint (SHA1): 70:5d:2b:45:65:c7:04:7a:54:06:94:a7:9a:f7:ab:b8:42:bd:c1:61
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridade Certificadora Raiz Brasileira v1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

\060\201\227\061\013\060\011\006\003\125\004\006\023\002\102\122
\061\023\060\021\006\003\125\004\012\023\012\111\103\120\055\102
\162\141\163\151\154\061\075\060\073\006\003\125\004\013\023\064
\111\156\163\164\151\164\165\164\157\040\116\141\143\151\157\156
\141\154\040\144\145\040\124\145\143\156\157\154\157\147\151\141
\040\144\141\040\111\156\146\157\162\155\141\143\141\157\040\055
\040\111\124\111\061\064\060\062\006\003\125\004\003\023\053\101
\165\164\157\162\151\144\141\144\145\040\103\145\162\164\151\146
\151\143\141\144\157\162\141\040\122\141\151\172\040\102\162\141
\163\151\154\145\151\162\141\040\166\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\227\061\013\060\011\006\003\125\004\006\023\002\102\122
\061\023\060\021\006\003\125\004\012\023\012\111\103\120\055\102
\162\141\163\151\154\061\075\060\073\006\003\125\004\013\023\064
\111\156\163\164\151\164\165\164\157\040\116\141\143\151\157\156
\141\154\040\144\145\040\124\145\143\156\157\154\157\147\151\141
\040\144\141\040\111\156\146\157\162\155\141\143\141\157\040\055
\040\111\124\111\061\064\060\062\006\003\125\004\003\023\053\101
\165\164\157\162\151\144\141\144\145\040\103\145\162\164\151\146
\151\143\141\144\157\162\141\040\122\141\151\172\040\102\162\141
\163\151\154\145\151\162\141\040\166\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\200\060\202\003\150\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\201\227\061\013\060\011\006\003\125\004\006\023\002\102\122\061
\023\060\021\006\003\125\004\012\023\012\111\103\120\055\102\162
\141\163\151\154\061\075\060\073\006\003\125\004\013\023\064\111
\156\163\164\151\164\165\164\157\040\116\141\143\151\157\156\141
\154\040\144\145\040\124\145\143\156\157\154\157\147\151\141\040
\144\141\040\111\156\146\157\162\155\141\143\141\157\040\055\040
\111\124\111\061\064\060\062\006\003\125\004\003\023\053\101\165
\164\157\162\151\144\141\144\145\040\103\145\162\164\151\146\151
\143\141\144\157\162\141\040\122\141\151\172\040\102\162\141\163
\151\154\145\151\162\141\040\166\061\060\036\027\015\060\070\060
\067\062\071\061\071\061\067\061\060\132\027\015\062\061\060\067
\062\071\061\071\061\067\061\060\132\060\201\227\061\013\060\011
\006\003\125\004\006\023\002\102\122\061\023\060\021\006\003\125
\004\012\023\012\111\103\120\055\102\162\141\163\151\154\061\075
\060\073\006\003\125\004\013\023\064\111\156\163\164\151\164\165
\164\157\040\116\141\143\151\157\156\141\154\040\144\145\040\124
\145\143\156\157\154\157\147\151\141\040\144\141\040\111\156\146
\157\162\155\141\143\141\157\040\055\040\111\124\111\061\064\060

\062\006\003\125\004\003\023\053\101\165\164\157\162\151\144\141
\144\145\040\103\145\162\164\151\146\151\143\141\144\157\162\141
\040\122\141\151\172\040\102\162\141\163\151\154\145\151\162\141
\040\166\061\060\202\001\042\060\015\006\011\052\206\110\206\367
\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002
\202\001\001\000\316\034\350\276\223\064\316\311\261\344\124\356
\011\366\354\244\010\205\240\077\306\212\306\160\060\247\200\214
\355\076\001\124\007\214\031\043\073\237\273\307\264\213\040\261
\342\367\101\026\055\136\207\146\272\260\007\335\157\321\077\074
\332\310\131\063\235\025\260\237\222\310\126\124\130\212\072\047
\242\064\036\233\170\265\267\315\345\233\351\300\056\022\236\160
\170\007\372\216\362\114\300\370\345\162\174\036\251\251\140\003
\127\046\107\333\203\166\303\316\310\022\273\321\377\357\256\263
\142\175\232\240\344\274\156\175\001\056\064\140\334\207\340\137
\177\005\160\134\060\025\054\302\165\243\077\120\003\146\043\146
\054\347\164\167\170\333\146\027\337\371\037\015\202\150\217\165
\207\367\351\061\172\123\117\317\130\142\273\100\242\064\317\300
\160\204\120\227\025\332\040\113\351\373\114\102\255\053\150\216
\243\331\255\005\142\376\010\164\304\350\301\314\205\023\316\255
\050\060\120\335\336\300\201\301\111\260\136\056\046\070\351\143
\004\063\167\265\200\166\315\052\177\362\074\254\135\223\102\071
\364\242\163\105\002\003\001\000\001\243\201\324\060\201\321\060
\116\006\003\125\035\040\004\107\060\105\060\103\006\005\140\114
\001\001\000\060\072\060\070\006\010\053\006\001\005\005\007\002
\001\026\054\150\164\164\160\072\057\057\141\143\162\141\151\172
\056\151\143\160\142\162\141\163\151\154\056\147\157\166\056\142
\162\057\104\120\103\141\143\162\141\151\172\056\160\144\146\060
\077\006\003\125\035\037\004\070\060\066\060\064\240\062\240\060
\206\056\150\164\164\160\072\057\057\141\143\162\141\151\172\056
\151\143\160\142\162\141\163\151\154\056\147\157\166\056\142\162
\057\114\103\122\141\143\162\141\151\172\166\061\056\143\162\154
\060\035\006\003\125\035\016\004\026\004\024\102\262\054\134\164
\001\007\276\233\377\125\063\073\356\051\273\135\221\277\006\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003
\202\001\001\000\131\154\212\166\351\031\161\127\203\376\247\364
\172\017\236\201\320\317\007\034\014\043\351\044\015\121\313\063
\350\052\011\303\172\377\016\243\200\206\140\301\160\227\340\300
\012\125\335\244\145\114\217\247\107\260\127\267\363\253\304\303
\031\343\230\354\015\260\033\121\221\311\331\011\326\351\152\263
\347\014\260\262\222\207\373\216\115\025\354\022\024\031\170\014
\142\352\024\071\030\012\305\125\333\123\205\334\173\050\372\025
\161\243\312\164\045\202\017\147\047\064\327\256\122\023\002\373
\305\357\232\200\045\245\122\236\071\016\355\072\364\170\007\137
\325\050\172\012\112\365\320\303\147\367\214\130\027\157\012\000
\243\046\020\264\140\042\072\112\110\245\332\340\251\204\336\103
\333\237\103\247\077\050\004\107\222\057\367\347\144\165\041\322

\117\201\316\252\076\144\016\343\016\255\125\232\176\224\233\064
\301\320\256\151\116\036\243\331\263\207\127\332\160\302\132\175
\207\315\371\277\067\336\355\126\065\367\267\042\016\117\222\270
\077\010\337\234\236\230\136\362\157\271\372\233\054\370\315\105
\330\162\262\040
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Autoridade Certificadora Raiz Brasileira v1"
Issuer: CN=Autoridade Certificadora Raiz Brasileira v1,OU=Instituto Nacional de Tecnologia da Informacao - ITI,O=ICP-Brasil,C=BR
Serial Number: 1 (0x1)
Subject: CN=Autoridade Certificadora Raiz Brasileira v1,OU=Instituto Nacional de Tecnologia da Informacao - ITI,O=ICP-Brasil,C=BR
Not Valid Before: Tue Jul 29 19:17:10 2008
Not Valid After: Thu Jul 29 19:17:10 2021
Fingerprint (MD5): 93:f1:ad:34:0b:2b:e7:a8:54:60:e2:73:8c:a4:94:31
Fingerprint (SHA1): 70:5d:2b:45:65:c7:04:7a:54:06:94:a7:9a:f7:ab:b8:42:bd:c1:61
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridade Certificadora Raiz Brasileira v1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\160\135\053\105\145\307\004\172\124\006\224\247\232\367\253\270
\102\275\301\141
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\223\361\255\064\013\053\347\250\124\140\342\163\214\244\224\061
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\227\061\013\060\011\006\003\125\004\006\023\002\102\122
\061\023\060\021\006\003\125\004\012\023\012\111\103\120\055\102
\162\141\163\151\154\061\075\060\073\006\003\125\004\013\023\064
\111\156\163\164\151\164\165\164\157\040\116\141\143\151\157\156
\141\154\040\144\145\040\124\145\143\156\157\154\157\147\151\141
\040\144\141\040\111\156\146\157\162\155\141\143\141\157\040\055
\040\111\124\111\061\064\060\062\006\003\125\004\003\023\053\101
\165\164\157\162\151\144\141\144\145\040\103\145\162\164\151\146
\151\143\141\144\157\162\141\040\122\141\151\172\040\102\162\141
\163\151\154\145\151\162\141\040\166\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "ipsCA Global CA Root"
Issuer: 1.2.840.113549.1.9.1=global01@ipsca.com,CN=ipsCA Global CA Root,OU=ipsCA,O=IPS Certification Authority s.l. ipsCA,L=Madrid,ST=Madrid,C=ES
Serial Number: 0 (0x0)
Subject: 1.2.840.113549.1.9.1=global01@ipsca.com,CN=ipsCA Global CA Root,OU=ipsCA,O=IPS Certification Authority s.l. ipsCA,L=Madrid,ST=Madrid,C=ES
Not Valid Before: Mon Sep 07 14:38:44 2009
Not Valid After: Tue Dec 25 14:38:44 2029
Fingerprint (MD5): 25:2a:c6:c5:89:68:39:f9:55:72:02:16:5e:a3:9e:d2
Fingerprint (SHA1): 3c:71:d7:0e:35:a5:da:a8:b2:e3:81:2d:c3:67:74:17:f5:99:0d:f3
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ipsCA Global CA Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\262\061\013\060\011\006\003\125\004\006\023\002\105\123
\061\017\060\015\006\003\125\004\010\023\006\115\141\144\162\151
\144\061\017\060\015\006\003\125\004\007\023\006\115\141\144\162
\151\144\061\057\060\055\006\003\125\004\012\023\046\111\120\123
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\163\056\154\056\040\151\160
\163\103\101\061\016\060\014\006\003\125\004\013\023\005\151\160
\163\103\101\061\035\060\033\006\003\125\004\003\023\024\151\160
\163\103\101\040\107\154\157\142\141\154\040\103\101\040\122\157
\157\164\061\041\060\037\006\011\052\206\110\206\367\015\001\011
\001\026\022\147\154\157\142\141\154\060\061\100\151\160\163\143
\141\056\143\157\155
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\262\061\013\060\011\006\003\125\004\006\023\002\105\123
\061\017\060\015\006\003\125\004\010\023\006\115\141\144\162\151
\144\061\017\060\015\006\003\125\004\007\023\006\115\141\144\162
\151\144\061\057\060\055\006\003\125\004\012\023\046\111\120\123
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\163\056\154\056\040\151\160
\163\103\101\061\016\060\014\006\003\125\004\013\023\005\151\160
\163\103\101\061\035\060\033\006\003\125\004\003\023\024\151\160
\163\103\101\040\107\154\157\142\141\154\040\103\101\040\122\157
\157\164\061\041\060\037\006\011\052\206\110\206\367\015\001\011

\001\026\022\147\154\157\142\141\154\060\061\100\151\160\163\143
\141\056\143\157\155
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\007\060\202\004\357\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\201\262\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\017\060\015\006\003\125\004\010\023\006\115\141\144\162\151\144
\061\017\060\015\006\003\125\004\007\023\006\115\141\144\162\151
\144\061\057\060\055\006\003\125\004\012\023\046\111\120\123\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165
\164\150\157\162\151\164\171\040\163\056\154\056\040\151\160\163
\103\101\061\016\060\014\006\003\125\004\013\023\005\151\160\163
\103\101\061\035\060\033\006\003\125\004\003\023\024\151\160\163
\103\101\040\107\154\157\142\141\154\040\103\101\040\122\157\157
\164\061\041\060\037\006\011\052\206\110\206\367\015\001\011\001
\026\022\147\154\157\142\141\154\060\061\100\151\160\163\143\141
\056\143\157\155\060\036\027\015\060\071\060\071\060\067\061\064
\063\070\064\064\132\027\015\062\071\061\062\062\065\061\064\063
\070\064\064\132\060\201\262\061\013\060\011\006\003\125\004\006
\023\002\105\123\061\017\060\015\006\003\125\004\010\023\006\115
\141\144\162\151\144\061\017\060\015\006\003\125\004\007\023\006
\115\141\144\162\151\144\061\057\060\055\006\003\125\004\012\023
\046\111\120\123\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\163\056\154
\056\040\151\160\163\103\101\061\016\060\014\006\003\125\004\013
\023\005\151\160\163\103\101\061\035\060\033\006\003\125\004\003
\023\024\151\160\163\103\101\040\107\154\157\142\141\154\040\103
\101\040\122\157\157\164\061\041\060\037\006\011\052\206\110\206
\367\015\001\011\001\026\022\147\154\157\142\141\154\060\061\100
\151\160\163\143\141\056\143\157\155\060\202\001\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017
\000\060\202\001\012\002\202\001\001\000\247\357\314\200\060\260
\221\044\117\260\150\370\303\312\055\025\070\125\130\202\342\070
\143\260\367\243\222\157\203\270\260\136\260\214\254\124\261\167
\320\120\340\227\263\220\255\212\263\037\071\053\105\126\367\252
\342\337\174\262\354\157\123\057\232\313\320\346\146\313\311\023
\350\162\342\264\315\061\127\207\022\265\223\350\372\162\316\352
\107\362\214\264\260\143\327\004\000\267\144\066\071\227\350\225
\361\210\371\161\015\003\047\214\141\317\010\203\226\117\203\305
\116\350\134\370\006\160\361\002\252\034\036\251\310\252\176\347
\135\315\215\074\024\157\147\320\033\251\043\110\213\041\050\072
\212\114\346\021\061\371\041\056\262\147\146\306\051\156\224\223
\317\100\226\374\260\075\277\262\264\223\277\126\161\266\245\101
\207\260\130\265\131\043\050\111\270\230\371\120\036\055\025\050

\013\114\254\111\321\204\251\233\232\347\162\124\267\070\320\333
\311\376\251\163\325\155\020\315\216\165\353\376\227\375\200\074
\374\264\330\110\364\231\106\013\210\024\244\266\056\333\114\140
\364\041\301\154\200\225\024\325\257\325\002\003\001\000\001\243
\202\002\044\060\202\002\040\060\035\006\003\125\035\016\004\026
\004\024\025\246\226\200\261\025\113\061\303\302\234\366\347\023
\013\113\363\030\315\206\060\201\337\006\003\125\035\043\004\201
\327\060\201\324\200\024\025\246\226\200\261\025\113\061\303\302
\234\366\347\023\013\113\363\030\315\206\241\201\270\244\201\265
\060\201\262\061\013\060\011\006\003\125\004\006\023\002\105\123
\061\017\060\015\006\003\125\004\010\023\006\115\141\144\162\151
\144\061\017\060\015\006\003\125\004\007\023\006\115\141\144\162
\151\144\061\057\060\055\006\003\125\004\012\023\046\111\120\123
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\163\056\154\056\040\151\160
\163\103\101\061\016\060\014\006\003\125\004\013\023\005\151\160
\163\103\101\061\035\060\033\006\003\125\004\003\023\024\151\160
\163\103\101\040\107\154\157\142\141\154\040\103\101\040\122\157
\157\164\061\041\060\037\006\011\052\206\110\206\367\015\001\011
\001\026\022\147\154\157\142\141\154\060\061\100\151\160\163\143
\141\056\143\157\155\202\001\000\060\014\006\003\125\035\023\004
\005\060\003\001\001\377\060\013\006\003\125\035\017\004\004\003
\002\001\006\060\107\006\003\125\035\045\004\100\060\076\006\010
\053\006\001\005\005\007\003\001\006\010\053\006\001\005\005\007
\003\002\006\010\053\006\001\005\005\007\003\003\006\010\053\006
\001\005\005\007\003\004\006\010\053\006\001\005\005\007\003\010
\006\012\053\006\001\004\001\202\067\012\003\004\060\035\006\003
\125\035\021\004\026\060\024\201\022\147\154\157\142\141\154\060
\061\100\151\160\163\143\141\056\143\157\155\060\035\006\003\125
\035\022\004\026\060\024\201\022\147\154\157\142\141\154\060\061
\100\151\160\163\143\141\056\143\157\155\060\101\006\003\125\035
\037\004\072\060\070\060\066\240\064\240\062\206\060\150\164\164
\160\072\057\057\143\162\154\147\154\157\142\141\154\060\061\056
\151\160\163\143\141\056\143\157\155\057\143\162\154\057\143\162
\154\147\154\157\142\141\154\060\061\056\143\162\154\060\070\006
\010\053\006\001\005\005\007\001\001\004\054\060\052\060\050\006
\010\053\006\001\005\005\007\060\001\206\034\150\164\164\160\072
\057\057\143\162\154\147\154\157\142\141\154\060\061\056\151\160
\163\143\141\056\143\157\155\060\015\006\011\052\206\110\206\367
\015\001\001\005\005\000\003\202\001\001\000\030\364\256\376\200
\017\216\301\167\157\242\132\107\110\237\043\125\241\123\153\371
\135\247\060\245\044\276\103\057\370\301\321\127\371\076\054\200
\045\314\106\251\066\363\111\133\035\366\174\327\143\263\115\076
\170\366\247\264\002\167\370\171\015\076\152\313\030\140\270\375
\000\257\014\335\124\343\124\217\042\075\363\020\157\021\015\265
\036\172\215\047\314\010\270\133\303\270\032\137\053\247\140\077
\000\034\367\017\134\102\146\144\236\207\022\200\160\211\340\372
\127\050\016\116\037\020\057\331\005\200\266\200\057\034\151\360

\366\266\145\064\005\157\312\331\076\370\324\135\067\062\307\270
\053\314\377\163\223\000\161\340\001\310\252\103\275\251\361\316
\372\200\371\361\103\022\221\246\145\345\140\007\115\107\272\053
\057\004\366\112\205\051\210\145\020\311\262\123\142\234\154\233
\140\134\032\033\323\256\305\035\162\231\006\377\005\314\206\046
\163\264\324\124\005\335\036\153\000\073\267\211\350\343\221\002
\040\022\353\357\351\376\012\051\043\201\043\243\000\332\160\314
\222\137\067\043\320\034\173\065\134\003\172
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "ipsCA Global CA Root"
Issuer: 1.2.840.113549.1.9.1=global01@ipsca.com,CN=ipsCA Global CA Root,OU=ipsCA,O=IPS Certification Authority s.l. ipsCA,L=Madrid,ST=Madrid,C=ES
Serial Number: 0 (0x0)
Subject: 1.2.840.113549.1.9.1=global01@ipsca.com,CN=ipsCA Global CA Root,OU=ipsCA,O=IPS Certification Authority s.l. ipsCA,L=Madrid,ST=Madrid,C=ES
Not Valid Before: Mon Sep 07 14:38:44 2009
Not Valid After: Tue Dec 25 14:38:44 2029
Fingerprint (MD5): 25:2a:c6:c5:89:68:39:f9:55:72:02:16:5e:a3:9e:d2
Fingerprint (SHA1): 3c:71:d7:0e:35:a5:da:a8:b2:e3:81:2d:c3:67:74:17:f5:99:0d:f3
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ipsCA Global CA Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\074\161\327\016\065\245\332\250\262\343\201\055\303\147\164\027
\365\231\015\363
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\045\052\306\305\211\150\071\371\125\162\002\026\136\243\236\322
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\262\061\013\060\011\006\003\125\004\006\023\002\105\123
\061\017\060\015\006\003\125\004\010\023\006\115\141\144\162\151
\144\061\017\060\015\006\003\125\004\007\023\006\115\141\144\162
\151\144\061\057\060\055\006\003\125\004\012\023\046\111\120\123
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\163\056\154\056\040\151\160
\163\103\101\061\016\060\014\006\003\125\004\013\023\005\151\160
\163\103\101\061\035\060\033\006\003\125\004\003\023\024\151\160
\163\103\101\040\107\154\157\142\141\154\040\103\101\040\122\157
\157\164\061\041\060\037\006\011\052\206\110\206\367\015\001\011
\001\026\022\147\154\157\142\141\154\060\061\100\151\160\163\143

\141\056\143\157\155
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "ipsCA Main CA Root"
Issuer: 1.2.840.113549.1.9.1=main01@ipsca.com,CN=ipsCA Main CA Root,OU=ipsCA,O=IPS Certification Authority s.l. ipsCA,L=Madrid,ST=Madrid,C=ES
Serial Number: 0 (0x0)
Subject: 1.2.840.113549.1.9.1=main01@ipsca.com,CN=ipsCA Main CA Root,OU=ipsCA,O=IPS Certification Authority s.l. ipsCA,L=Madrid,ST=Madrid,C=ES
Not Valid Before: Mon Sep 07 14:54:36 2009
Not Valid After: Tue Dec 25 14:54:36 2029
Fingerprint (MD5): 30:c9:08:dd:d7:3e:63:a4:09:28:14:c7:4e:b9:7e:2c
Fingerprint (SHA1): cf:e4:31:3d:ba:05:b8:a7:c3:00:63:99:5a:9e:b7:c2:47:ad:8f:d5
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ipsCA Main CA Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\256\061\013\060\011\006\003\125\004\006\023\002\105\123
\061\017\060\015\006\003\125\004\010\023\006\115\141\144\162\151
\144\061\017\060\015\006\003\125\004\007\023\006\115\141\144\162
\151\144\061\057\060\055\006\003\125\004\012\023\046\111\120\123
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\163\056\154\056\040\151\160
\163\103\101\061\016\060\014\006\003\125\004\013\023\005\151\160
\163\103\101\061\033\060\031\006\003\125\004\003\023\022\151\160
\163\103\101\040\115\141\151\156\040\103\101\040\122\157\157\164
\061\037\060\035\006\011\052\206\110\206\367\015\001\011\001\026
\020\155\141\151\156\060\061\100\151\160\163\143\141\056\143\157
\155
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\256\061\013\060\011\006\003\125\004\006\023\002\105\123
\061\017\060\015\006\003\125\004\010\023\006\115\141\144\162\151
\144\061\017\060\015\006\003\125\004\007\023\006\115\141\144\162
\151\144\061\057\060\055\006\003\125\004\012\023\046\111\120\123
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101

\165\164\150\157\162\151\164\171\040\163\056\154\056\040\151\160
\163\103\101\061\016\060\014\006\003\125\004\013\023\005\151\160
\163\103\101\061\033\060\031\006\003\125\004\003\023\022\151\160
\163\103\101\040\115\141\151\156\040\103\101\040\122\157\157\164
\061\037\060\035\006\011\052\206\110\206\367\015\001\011\001\026
\020\155\141\151\156\060\061\100\151\160\163\143\141\056\143\157
\155
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\356\060\202\004\326\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\201\256\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\017\060\015\006\003\125\004\010\023\006\115\141\144\162\151\144
\061\017\060\015\006\003\125\004\007\023\006\115\141\144\162\151
\144\061\057\060\055\006\003\125\004\012\023\046\111\120\123\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165
\164\150\157\162\151\164\171\040\163\056\154\056\040\151\160\163
\103\101\061\016\060\014\006\003\125\004\013\023\005\151\160\163
\103\101\061\033\060\031\006\003\125\004\003\023\022\151\160\163
\103\101\040\115\141\151\156\040\103\101\040\122\157\157\164\061
\037\060\035\006\011\052\206\110\206\367\015\001\011\001\026\020
\155\141\151\156\060\061\100\151\160\163\143\141\056\143\157\155
\060\036\027\015\060\071\060\071\060\067\061\064\065\064\063\066
\132\027\015\062\071\061\062\062\065\061\064\065\064\063\066\132
\060\201\256\061\013\060\011\006\003\125\004\006\023\002\105\123
\061\017\060\015\006\003\125\004\010\023\006\115\141\144\162\151
\144\061\017\060\015\006\003\125\004\007\023\006\115\141\144\162
\151\144\061\057\060\055\006\003\125\004\012\023\046\111\120\123
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\163\056\154\056\040\151\160
\163\103\101\061\016\060\014\006\003\125\004\013\023\005\151\160
\163\103\101\061\033\060\031\006\003\125\004\003\023\022\151\160
\163\103\101\040\115\141\151\156\040\103\101\040\122\157\157\164
\061\037\060\035\006\011\052\206\110\206\367\015\001\011\001\026
\020\155\141\151\156\060\061\100\151\160\163\143\141\056\143\157
\155\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001
\001\000\225\060\045\262\175\042\114\332\077\026\302\147\337\145
\314\353\105\222\107\145\236\254\166\317\154\152\311\316\003\315
\243\303\070\162\343\155\245\153\245\122\207\346\142\245\373\001
\175\357\147\104\313\266\101\357\013\140\175\112\375\042\355\241
\343\364\235\262\102\140\316\066\015\051\131\171\356\142\007\172
\271\023\115\304\143\065\227\266\246\365\006\214\355\031\145\077
\214\046\064\177\356\350\051\226\213\253\174\166\200\024\304\047
\121\234\143\277\052\224\206\030\217\220\236\205\375\032\331\164

\160\320\177\354\035\244\054\172\121\305\201\024\253\125\263\142
\225\203\017\203\110\150\206\267\357\077\006\213\216\245\150\302
\243\131\246\231\120\113\015\274\134\162\025\340\262\105\213\036
\131\311\052\117\133\326\242\277\301\177\275\250\246\242\175\174
\051\004\341\033\272\102\301\154\316\331\273\272\124\060\075\047
\207\301\234\270\017\262\333\137\104\200\232\152\103\115\026\323
\334\304\160\250\216\230\150\034\342\062\303\261\107\040\213\013
\152\212\237\377\125\301\217\275\166\171\056\170\233\060\010\160
\056\157\002\003\001\000\001\243\202\002\023\060\202\002\017\060
\035\006\003\125\035\016\004\026\004\024\141\355\071\215\153\074
\341\066\306\317\333\101\374\033\103\121\127\313\115\153\060\201
\333\006\003\125\035\043\004\201\323\060\201\320\200\024\141\355
\071\215\153\074\341\066\306\317\333\101\374\033\103\121\127\313
\115\153\241\201\264\244\201\261\060\201\256\061\013\060\011\006
\003\125\004\006\023\002\105\123\061\017\060\015\006\003\125\004
\010\023\006\115\141\144\162\151\144\061\017\060\015\006\003\125
\004\007\023\006\115\141\144\162\151\144\061\057\060\055\006\003
\125\004\012\023\046\111\120\123\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\163\056\154\056\040\151\160\163\103\101\061\016\060\014\006
\003\125\004\013\023\005\151\160\163\103\101\061\033\060\031\006
\003\125\004\003\023\022\151\160\163\103\101\040\115\141\151\156
\040\103\101\040\122\157\157\164\061\037\060\035\006\011\052\206
\110\206\367\015\001\011\001\026\020\155\141\151\156\060\061\100
\151\160\163\143\141\056\143\157\155\202\001\000\060\014\006\003
\125\035\023\004\005\060\003\001\001\377\060\013\006\003\125\035
\017\004\004\003\002\001\006\060\107\006\003\125\035\045\004\100
\060\076\006\010\053\006\001\005\005\007\003\001\006\010\053\006
\001\005\005\007\003\002\006\010\053\006\001\005\005\007\003\003
\006\010\053\006\001\005\005\007\003\004\006\010\053\006\001\005
\005\007\003\010\006\012\053\006\001\004\001\202\067\012\003\004
\060\033\006\003\125\035\021\004\024\060\022\201\020\155\141\151
\156\060\061\100\151\160\163\143\141\056\143\157\155\060\033\006
\003\125\035\022\004\024\060\022\201\020\155\141\151\156\060\061
\100\151\160\163\143\141\056\143\157\155\060\072\006\003\125\035
\037\004\063\060\061\060\057\240\055\240\053\206\051\150\164\164
\160\072\057\057\143\162\154\155\141\151\156\060\061\056\151\160
\163\143\141\056\143\157\155\057\143\162\154\057\155\141\151\156
\060\061\056\143\162\154\060\066\006\010\053\006\001\005\005\007
\001\001\004\052\060\050\060\046\006\010\053\006\001\005\005\007
\060\001\206\032\150\164\164\160\072\057\057\143\162\154\155\141
\151\156\060\061\056\151\160\163\143\141\056\143\157\155\060\015
\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202\001
\001\000\106\234\017\142\266\332\075\034\151\076\276\042\301\351
\176\040\357\311\356\372\306\020\236\145\135\117\270\104\263\324
\041\151\126\117\162\176\142\336\233\111\207\235\343\310\140\255
\157\260\006\067\035\100\341\175\072\320\023\326\227\342\207\166
\367\037\115\323\203\055\012\271\210\131\322\041\317\346\300\166

\217\265\111\153\371\074\315\136\053\251\351\244\051\023\317\012
\372\235\223\055\333\070\341\162\052\015\073\057\160\227\275\331
\263\004\261\242\156\372\157\204\317\140\161\073\232\343\205\330
\177\270\015\062\033\240\372\005\144\026\150\044\073\233\370\314
\052\000\021\177\300\052\334\075\351\051\224\161\002\243\030\156
\054\014\060\005\316\230\226\115\032\366\121\143\241\106\364\057
\217\121\037\075\256\207\122\375\300\073\223\310\214\162\321\161
\310\231\352\175\244\014\214\237\061\207\172\367\333\225\360\277
\157\105\317\254\205\337\321\106\136\145\102\223\112\020\027\164
\030\005\002\132\114\222\067\341\342\055\103\012\272\232\252\104
\114\207\315\304\224\334\157\033\152\307\022\222\144\267\000\370
\045\115
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "ipsCA Main CA Root"
Issuer: 1.2.840.113549.1.9.1=main01@ipsca.com,CN=ipsCA Main CA Root,OU=ipsCA,O=IPS Certification Authority s.l. ipsCA,L=Madrid,ST=Madrid,C=ES
Serial Number: 0 (0x0)
Subject: 1.2.840.113549.1.9.1=main01@ipsca.com,CN=ipsCA Main CA Root,OU=ipsCA,O=IPS Certification Authority s.l. ipsCA,L=Madrid,ST=Madrid,C=ES
Not Valid Before: Mon Sep 07 14:54:36 2009
Not Valid After: Tue Dec 25 14:54:36 2029
Fingerprint (MD5): 30:c9:08:dd:d7:3e:63:a4:09:28:14:c7:4e:b9:7e:2c
Fingerprint (SHA1): cf:e4:31:3d:ba:05:b8:a7:c3:00:63:99:5a:9e:b7:c2:47:ad:8f:d5
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ipsCA Main CA Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\317\344\061\075\272\005\270\247\303\000\143\231\132\236\267\302
\107\255\217\325
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\060\311\010\335\327\076\143\244\011\050\024\307\116\271\176\054
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\256\061\013\060\011\006\003\125\004\006\023\002\105\123
\061\017\060\015\006\003\125\004\010\023\006\115\141\144\162\151
\144\061\017\060\015\006\003\125\004\007\023\006\115\141\144\162
\151\144\061\057\060\055\006\003\125\004\012\023\046\111\120\123
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\163\056\154\056\040\151\160
\163\103\101\061\016\060\014\006\003\125\004\013\023\005\151\160

\163\103\101\061\033\060\031\006\003\125\004\003\023\022\151\160
\163\103\101\040\115\141\151\156\040\103\101\040\122\157\157\164
\061\037\060\035\006\011\052\206\110\206\367\015\001\011\001\026
\020\155\141\151\156\060\061\100\151\160\163\143\141\056\143\157
\155
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Actalis Authentication CA G1"
Issuer: CN=Actalis Authentication CA G1,O=Actalis S.p.A./03358520967,L=Milano,C=IT
Serial Number: 1 (0x1)
Subject: CN=Actalis Authentication CA G1,O=Actalis S.p.A./03358520967,L=Milano,C=IT
Not Valid Before: Tue Jun 23 14:06:00 2009
Not Valid After: Sat Jun 25 14:06:00 2022
Fingerprint (MD5): c2:2a:59:ab:cf:15:2f:4c:f7:e6:31:a3:16:ae:84:0c
Fingerprint (SHA1): 91:58:c5:ef:98:73:01:a8:90:3c:fd:ab:03:d7:2d:a1:d8:89:09:c9
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Actalis Authentication CA G1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\152\061\013\060\011\006\003\125\004\006\023\002\111\124\061
\017\060\015\006\003\125\004\007\014\006\115\151\154\141\156\157
\061\043\060\041\006\003\125\004\012\014\032\101\143\164\141\154
\151\163\040\123\056\160\056\101\056\057\060\063\063\065\070\065
\062\060\071\066\067\061\045\060\043\006\003\125\004\003\014\034
\101\143\164\141\154\151\163\040\101\165\164\150\145\156\164\151
\143\141\164\151\157\156\040\103\101\040\107\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\152\061\013\060\011\006\003\125\004\006\023\002\111\124\061
\017\060\015\006\003\125\004\007\014\006\115\151\154\141\156\157
\061\043\060\041\006\003\125\004\012\014\032\101\143\164\141\154
\151\163\040\123\056\160\056\101\056\057\060\063\063\065\070\065
\062\060\071\066\067\061\045\060\043\006\003\125\004\003\014\034
\101\143\164\141\154\151\163\040\101\165\164\150\145\156\164\151
\143\141\164\151\157\156\040\103\101\040\107\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\224\060\202\002\174\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\152\061\013\060\011\006\003\125\004\006\023\002\111\124\061\017
\060\015\006\003\125\004\007\014\006\115\151\154\141\156\157\061
\043\060\041\006\003\125\004\012\014\032\101\143\164\141\154\151
\163\040\123\056\160\056\101\056\057\060\063\063\065\070\065\062
\060\071\066\067\061\045\060\043\006\003\125\004\003\014\034\101
\143\164\141\154\151\163\040\101\165\164\150\145\156\164\151\143
\141\164\151\157\156\040\103\101\040\107\061\060\036\027\015\060
\071\060\066\062\063\061\064\060\066\060\060\132\027\015\062\062
\060\066\062\065\061\064\060\066\060\060\132\060\152\061\013\060
\011\006\003\125\004\006\023\002\111\124\061\017\060\015\006\003
\125\004\007\014\006\115\151\154\141\156\157\061\043\060\041\006
\003\125\004\012\014\032\101\143\164\141\154\151\163\040\123\056
\160\056\101\056\057\060\063\063\065\070\065\062\060\071\066\067
\061\045\060\043\006\003\125\004\003\014\034\101\143\164\141\154
\151\163\040\101\165\164\150\145\156\164\151\143\141\164\151\157
\156\040\103\101\040\107\061\060\202\001\042\060\015\006\011\052
\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060
\202\001\012\002\202\001\001\000\303\034\206\064\077\047\122\102
\140\272\053\140\320\041\053\311\327\351\100\165\072\154\130\017
\043\073\317\206\076\324\144\253\156\332\352\310\052\330\225\105
\337\311\034\322\045\222\236\020\230\132\213\161\151\300\225\351
\366\153\150\334\367\266\304\015\376\156\365\160\073\301\244\250
\117\040\242\047\013\237\361\022\165\174\317\256\177\136\313\170
\002\130\050\327\057\252\333\240\256\164\075\176\253\366\351\162
\241\052\317\326\220\140\337\340\240\065\312\300\333\004\304\007
\126\374\146\165\214\216\172\023\241\074\006\153\032\346\177\071
\234\210\344\204\157\242\342\177\153\237\354\001\252\322\304\313
\262\354\232\075\270\027\030\254\037\140\231\063\346\353\005\335
\314\362\151\147\260\016\276\050\044\103\313\055\271\107\204\031
\371\352\344\361\365\150\364\237\307\173\120\121\257\242\374\157
\167\210\061\277\222\333\177\234\305\265\254\241\010\230\347\152
\063\376\321\273\000\341\267\005\010\257\363\246\126\210\066\075
\343\212\112\342\015\235\200\206\146\237\324\302\243\120\272\034
\022\327\207\212\061\112\270\025\002\003\001\000\001\243\105\060
\103\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\006\060\022\006\003\125\035\023\001\001\377\004\010\060\006\001
\001\377\002\001\000\060\035\006\003\125\035\016\004\026\004\024
\001\273\326\233\126\264\176\346\305\130\335\054\230\364\312\162
\366\137\063\206\060\015\006\011\052\206\110\206\367\015\001\001
\005\005\000\003\202\001\001\000\241\040\326\313\242\064\155\074
\156\341\125\322\112\320\331\272\262\067\121\210\167\047\356\002
\110\223\105\101\342\165\121\362\031\224\011\240\363\270\175\272

\003\200\043\240\045\357\001\031\265\331\032\172\055\343\102\212
\261\206\061\017\226\354\146\204\362\316\043\022\106\226\153\061
\136\006\272\257\243\122\252\102\040\250\321\256\252\233\337\304
\027\236\123\160\001\264\251\032\332\150\310\143\017\266\132\163
\123\321\151\021\006\023\122\347\153\250\005\061\267\260\374\207
\106\305\165\210\201\361\137\170\002\347\237\255\234\273\124\355
\137\231\152\067\325\353\125\263\052\300\103\140\121\334\264\161
\222\046\243\017\314\172\075\334\300\102\211\027\051\010\147\124
\144\305\371\250\104\274\204\161\130\226\075\147\127\177\273\254
\220\263\161\042\277\076\272\254\146\046\105\020\263\360\037\072
\072\150\245\120\065\312\264\027\221\006\001\054\367\015\260\160
\262\133\126\165\271\167\231\300\331\225\205\002\055\163\146\007
\311\117\231\021\356\133\053\250\343\150\043\005\250\363\004\017
\006\273\037\011\216\306\133\035
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Actalis Authentication CA G1"
Issuer: CN=Actalis Authentication CA G1,O=Actalis S.p.A./03358520967,L=Milano,C=IT
Serial Number: 1 (0x1)
Subject: CN=Actalis Authentication CA G1,O=Actalis S.p.A./03358520967,L=Milano,C=IT
Not Valid Before: Tue Jun 23 14:06:00 2009
Not Valid After: Sat Jun 25 14:06:00 2022
Fingerprint (MD5): c2:2a:59:ab:cf:15:2f:4c:f7:e6:31:a3:16:ae:84:0c
Fingerprint (SHA1): 91:58:c5:ef:98:73:01:a8:90:3c:fd:ab:03:d7:2d:a1:d8:89:09:c9
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Actalis Authentication CA G1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\221\130\305\357\230\163\001\250\220\074\375\253\003\327\055\241
\330\211\011\311
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\302\052\131\253\317\025\057\114\367\346\061\243\026\256\204\014
END
CKA_ISSUER MULTILINE_OCTAL
\060\152\061\013\060\011\006\003\125\004\006\023\002\111\124\061
\017\060\015\006\003\125\004\007\014\006\115\151\154\141\156\157
\061\043\060\041\006\003\125\004\012\014\032\101\143\164\141\154
\151\163\040\123\056\160\056\101\056\057\060\063\063\065\070\065
\062\060\071\066\067\061\045\060\043\006\003\125\004\003\014\034
\101\143\164\141\154\151\163\040\101\165\164\150\145\156\164\151
\143\141\164\151\157\156\040\103\101\040\107\061

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "A-Trust-Qual-03"
Issuer: CN=A-Trust-Qual-03,OU=A-Trust-Qual-03,O=A-Trust Ges. f. Sicherheitssysteme im elektr. Datenverkehr GmbH,C=AT
Serial Number: 255636 (0x3e694)
Subject: CN=A-Trust-Qual-03,OU=A-Trust-Qual-03,O=A-Trust Ges. f. Sicherheitssysteme im elektr. Datenverkehr GmbH,C=AT
Not Valid Before: Thu Apr 24 22:00:00 2008
Not Valid After: Tue Apr 24 22:00:00 2018
Fingerprint (MD5): d8:7e:32:ef:69:f8:bf:72:03:1d:40:82:e8:a7:75:af
Fingerprint (SHA1): 42:ef:dd:e6:bf:f3:5e:d0:ba:e6:ac:dd:20:4c:50:ae:86:c4:f4:fa
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "A-Trust-Qual-03"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\213\061\013\060\011\006\003\125\004\006\023\002\101\124
\061\110\060\106\006\003\125\004\012\014\077\101\055\124\162\165
\163\164\040\107\145\163\056\040\146\056\040\123\151\143\150\145
\162\150\145\151\164\163\163\171\163\164\145\155\145\040\151\155
\040\145\154\145\153\164\162\056\040\104\141\164\145\156\166\145
\162\153\145\150\162\040\107\155\142\110\061\030\060\026\006\003
\125\004\013\014\017\101\055\124\162\165\163\164\055\121\165\141
\154\055\060\063\061\030\060\026\006\003\125\004\003\014\017\101
\055\124\162\165\163\164\055\121\165\141\154\055\060\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\213\061\013\060\011\006\003\125\004\006\023\002\101\124
\061\110\060\106\006\003\125\004\012\014\077\101\055\124\162\165
\163\164\040\107\145\163\056\040\146\056\040\123\151\143\150\145
\162\150\145\151\164\163\163\171\163\164\145\155\145\040\151\155
\040\145\154\145\153\164\162\056\040\104\141\164\145\156\166\145
\162\153\145\150\162\040\107\155\142\110\061\030\060\026\006\003
\125\004\013\014\017\101\055\124\162\165\163\164\055\121\165\141
\154\055\060\063\061\030\060\026\006\003\125\004\003\014\017\101
\055\124\162\165\163\164\055\121\165\141\154\055\060\063

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\003\346\224
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\313\060\202\002\263\240\003\002\001\002\002\003\003
\346\224\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\000\060\201\213\061\013\060\011\006\003\125\004\006\023\002\101
\124\061\110\060\106\006\003\125\004\012\014\077\101\055\124\162
\165\163\164\040\107\145\163\056\040\146\056\040\123\151\143\150
\145\162\150\145\151\164\163\163\171\163\164\145\155\145\040\151
\155\040\145\154\145\153\164\162\056\040\104\141\164\145\156\166
\145\162\153\145\150\162\040\107\155\142\110\061\030\060\026\006
\003\125\004\013\014\017\101\055\124\162\165\163\164\055\121\165
\141\154\055\060\063\061\030\060\026\006\003\125\004\003\014\017
\101\055\124\162\165\163\164\055\121\165\141\154\055\060\063\060
\036\027\015\060\070\060\064\062\064\062\062\060\060\060\060\132
\027\015\061\070\060\064\062\064\062\062\060\060\060\060\132\060
\201\213\061\013\060\011\006\003\125\004\006\023\002\101\124\061
\110\060\106\006\003\125\004\012\014\077\101\055\124\162\165\163
\164\040\107\145\163\056\040\146\056\040\123\151\143\150\145\162
\150\145\151\164\163\163\171\163\164\145\155\145\040\151\155\040
\145\154\145\153\164\162\056\040\104\141\164\145\156\166\145\162
\153\145\150\162\040\107\155\142\110\061\030\060\026\006\003\125
\004\013\014\017\101\055\124\162\165\163\164\055\121\165\141\154
\055\060\063\061\030\060\026\006\003\125\004\003\014\017\101\055
\124\162\165\163\164\055\121\165\141\154\055\060\063\060\202\001
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000
\003\202\001\017\000\060\202\001\012\002\202\001\001\000\263\236
\044\210\034\322\317\100\003\110\152\252\245\240\053\275\226\365
\174\012\237\237\253\120\220\333\101\316\126\200\171\052\300\375
\223\123\172\234\133\363\131\141\044\210\143\243\325\030\356\233
\204\164\204\234\354\214\075\332\301\206\172\157\066\056\046\353
\176\075\311\076\255\347\256\113\164\167\050\053\044\040\377\052
\056\302\225\144\020\366\176\173\303\267\332\021\175\236\253\355
\057\214\031\242\034\235\214\314\063\160\165\011\007\376\136\373
\100\244\045\214\057\375\265\121\147\072\250\053\114\237\326\150
\235\140\233\244\305\143\260\356\160\315\050\077\112\164\352\131
\371\165\305\000\006\156\037\260\143\301\052\252\023\135\374\313
\322\145\033\071\061\042\132\302\171\042\135\031\361\113\302\276
\316\034\210\001\164\361\046\101\167\062\071\306\214\120\150\317
\123\205\103\212\017\240\217\356\216\013\222\243\000\100\276\300
\242\131\136\054\241\104\270\376\037\042\323\014\272\320\350\357
\051\344\162\067\112\213\370\026\354\042\062\007\052\043\054\363
\243\327\315\312\251\247\117\162\277\274\021\216\250\033\002\003
\001\000\001\243\066\060\064\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\021\006\003\125\035\016\004
\012\004\010\106\006\337\067\362\302\067\020\060\016\006\003\125

\035\017\001\001\377\004\004\003\002\001\006\060\015\006\011\052
\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000\161
\010\324\046\104\276\200\342\153\102\265\052\120\375\135\350\214
\140\363\234\266\222\201\162\070\262\157\251\076\201\362\303\064
\044\123\241\121\122\310\245\211\323\274\334\333\022\271\333\251
\260\130\357\300\010\146\062\142\343\341\363\243\130\243\167\156
\356\344\241\273\127\021\150\167\063\010\364\315\131\270\352\135
\033\011\306\254\314\215\013\272\315\337\326\232\276\253\166\000
\255\175\026\113\144\134\337\230\076\153\155\136\054\174\071\025
\131\102\067\040\074\237\303\334\177\365\123\066\267\342\307\244
\042\214\172\276\161\275\115\263\150\310\270\251\211\377\161\060
\213\317\221\155\362\205\056\245\112\042\176\162\336\324\256\261
\355\014\357\374\105\175\055\334\044\255\355\171\007\345\255\117
\262\351\122\164\111\270\214\122\372\275\022\344\031\303\374\121
\215\026\343\153\150\156\071\232\337\051\071\245\273\261\241\027
\301\027\343\165\152\374\175\261\162\074\337\301\352\345\243\034
\324\235\131\033\032\164\037\151\052\203\124\044\030\323\356\345
\340\203\127\276\033\342\320\037\255\154\065\276\215\272\137
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "A-Trust-Qual-03"
Issuer: CN=A-Trust-Qual-03,OU=A-Trust-Qual-03,O=A-Trust Ges. f. Sicherheitssysteme im elektr. Datenverkehr GmbH,C=AT
Serial Number: 255636 (0x3e694)
Subject: CN=A-Trust-Qual-03,OU=A-Trust-Qual-03,O=A-Trust Ges. f. Sicherheitssysteme im elektr. Datenverkehr GmbH,C=AT
Not Valid Before: Thu Apr 24 22:00:00 2008
Not Valid After: Tue Apr 24 22:00:00 2018
Fingerprint (MD5): d8:7e:32:ef:69:f8:bf:72:03:1d:40:82:e8:a7:75:af
Fingerprint (SHA1): 42:ef:dd:e6:bf:f3:5e:d0:ba:e6:ac:dd:20:4c:50:ae:86:c4:f4:fa
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "A-Trust-Qual-03"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\102\357\335\346\277\363\136\320\272\346\254\335\040\114\120\256
\206\304\364\372
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\330\176\062\357\151\370\277\162\003\035\100\202\350\247\165\257
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\213\061\013\060\011\006\003\125\004\006\023\002\101\124

\061\110\060\106\006\003\125\004\012\014\077\101\055\124\162\165
\163\164\040\107\145\163\056\040\146\056\040\123\151\143\150\145
\162\150\145\151\164\163\163\171\163\164\145\155\145\040\151\155
\040\145\154\145\153\164\162\056\040\104\141\164\145\156\166\145
\162\153\145\150\162\040\107\155\142\110\061\030\060\026\006\003
\125\004\013\014\017\101\055\124\162\165\163\164\055\121\165\141
\154\055\060\063\061\030\060\026\006\003\125\004\003\014\017\101
\055\124\162\165\163\164\055\121\165\141\154\055\060\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\003\346\224
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "AddTrust External CA Root"
Issuer: CN=AddTrust External CA Root,OU=AddTrust External TTP Network,O=AddTrust AB,C=SE
Serial Number: 1 (0x1)
Subject: CN=AddTrust External CA Root,OU=AddTrust External TTP Network,O=AddTrust AB,C=SE
Not Valid Before: Tue May 30 10:48:38 2000
Not Valid After: Sat May 30 10:48:38 2020
Fingerprint (MD5): 1d:35:54:04:85:78:b0:3f:42:42:4d:bf:20:73:0a:3f
Fingerprint (SHA1): 02:fa:f3:e2:91:43:54:68:60:78:57:69:4d:f5:e4:5b:68:85:18:68
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AddTrust External CA Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\123\105\061
\024\060\022\006\003\125\004\012\023\013\101\144\144\124\162\165
\163\164\040\101\102\061\046\060\044\006\003\125\004\013\023\035
\101\144\144\124\162\165\163\164\040\105\170\164\145\162\156\141
\154\040\124\124\120\040\116\145\164\167\157\162\153\061\042\060
\040\006\003\125\004\003\023\031\101\144\144\124\162\165\163\164
\040\105\170\164\145\162\156\141\154\040\103\101\040\122\157\157
\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\123\105\061
\024\060\022\006\003\125\004\012\023\013\101\144\144\124\162\165
\163\164\040\101\102\061\046\060\044\006\003\125\004\013\023\035
\101\144\144\124\162\165\163\164\040\105\170\164\145\162\156\141

\154\040\124\124\120\040\116\145\164\167\157\162\153\061\042\060
\040\006\003\125\004\003\023\031\101\144\144\124\162\165\163\164
\040\105\170\164\145\162\156\141\154\040\103\101\040\122\157\157
\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\066\060\202\003\036\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\157\061\013\060\011\006\003\125\004\006\023\002\123\105\061\024
\060\022\006\003\125\004\012\023\013\101\144\144\124\162\165\163
\164\040\101\102\061\046\060\044\006\003\125\004\013\023\035\101
\144\144\124\162\165\163\164\040\105\170\164\145\162\156\141\154
\040\124\124\120\040\116\145\164\167\157\162\153\061\042\060\040
\006\003\125\004\003\023\031\101\144\144\124\162\165\163\164\040
\105\170\164\145\162\156\141\154\040\103\101\040\122\157\157\164
\060\036\027\015\060\060\060\065\063\060\061\060\064\070\063\070
\132\027\015\062\060\060\065\063\060\061\060\064\070\063\070\132
\060\157\061\013\060\011\006\003\125\004\006\023\002\123\105\061
\024\060\022\006\003\125\004\012\023\013\101\144\144\124\162\165
\163\164\040\101\102\061\046\060\044\006\003\125\004\013\023\035
\101\144\144\124\162\165\163\164\040\105\170\164\145\162\156\141
\154\040\124\124\120\040\116\145\164\167\157\162\153\061\042\060
\040\006\003\125\004\003\023\031\101\144\144\124\162\165\163\164
\040\105\170\164\145\162\156\141\154\040\103\101\040\122\157\157
\164\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001
\001\000\267\367\032\063\346\362\000\004\055\071\340\116\133\355
\037\274\154\017\315\265\372\043\266\316\336\233\021\063\227\244
\051\114\175\223\237\275\112\274\223\355\003\032\343\217\317\345
\155\120\132\326\227\051\224\132\200\260\111\172\333\056\225\375
\270\312\277\067\070\055\036\076\221\101\255\160\126\307\360\117
\077\350\062\236\164\312\310\220\124\351\306\137\017\170\235\232
\100\074\016\254\141\252\136\024\217\236\207\241\152\120\334\327
\232\116\257\005\263\246\161\224\234\161\263\120\140\012\307\023
\235\070\007\206\002\250\351\250\151\046\030\220\253\114\260\117
\043\253\072\117\204\330\337\316\237\341\151\157\273\327\102\327
\153\104\344\307\255\356\155\101\137\162\132\161\010\067\263\171
\145\244\131\240\224\067\367\000\057\015\302\222\162\332\320\070
\162\333\024\250\105\304\135\052\175\267\264\326\304\356\254\315
\023\104\267\311\053\335\103\000\045\372\141\271\151\152\130\043
\021\267\247\063\217\126\165\131\365\315\051\327\106\267\012\053
\145\266\323\102\157\025\262\270\173\373\357\351\135\123\325\064
\132\047\002\003\001\000\001\243\201\334\060\201\331\060\035\006
\003\125\035\016\004\026\004\024\255\275\230\172\064\264\046\367
\372\304\046\124\357\003\275\340\044\313\124\032\060\013\006\003

\125\035\017\004\004\003\002\001\006\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\201\231\006\003\125
\035\043\004\201\221\060\201\216\200\024\255\275\230\172\064\264
\046\367\372\304\046\124\357\003\275\340\044\313\124\032\241\163
\244\161\060\157\061\013\060\011\006\003\125\004\006\023\002\123
\105\061\024\060\022\006\003\125\004\012\023\013\101\144\144\124
\162\165\163\164\040\101\102\061\046\060\044\006\003\125\004\013
\023\035\101\144\144\124\162\165\163\164\040\105\170\164\145\162
\156\141\154\040\124\124\120\040\116\145\164\167\157\162\153\061
\042\060\040\006\003\125\004\003\023\031\101\144\144\124\162\165
\163\164\040\105\170\164\145\162\156\141\154\040\103\101\040\122
\157\157\164\202\001\001\060\015\006\011\052\206\110\206\367\015
\001\001\005\005\000\003\202\001\001\000\260\233\340\205\045\302
\326\043\342\017\226\006\222\235\101\230\234\331\204\171\201\331
\036\133\024\007\043\066\145\217\260\330\167\273\254\101\154\107
\140\203\121\260\371\062\075\347\374\366\046\023\307\200\026\245
\277\132\374\207\317\170\171\211\041\232\342\114\007\012\206\065
\274\362\336\121\304\322\226\267\334\176\116\356\160\375\034\071
\353\014\002\121\024\055\216\275\026\340\301\337\106\165\347\044
\255\354\364\102\264\205\223\160\020\147\272\235\006\065\112\030
\323\053\172\314\121\102\241\172\143\321\346\273\241\305\053\302
\066\276\023\015\346\275\143\176\171\173\247\011\015\100\253\152
\335\217\212\303\366\366\214\032\102\005\121\324\105\365\237\247
\142\041\150\025\040\103\074\231\347\174\275\044\330\251\221\027
\163\210\077\126\033\061\070\030\264\161\017\232\315\310\016\236
\216\056\033\341\214\230\203\313\037\061\361\104\114\306\004\163
\111\166\140\017\307\370\275\027\200\153\056\351\314\114\016\132
\232\171\017\040\012\056\325\236\143\046\036\125\222\224\330\202
\027\132\173\320\274\307\217\116\206\004
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "AddTrust External CA Root"
Issuer: CN=AddTrust External CA Root,OU=AddTrust External TTP Network,O=AddTrust AB,C=SE
Serial Number: 1 (0x1)
Subject: CN=AddTrust External CA Root,OU=AddTrust External TTP Network,O=AddTrust AB,C=SE
Not Valid Before: Tue May 30 10:48:38 2000
Not Valid After: Sat May 30 10:48:38 2020
Fingerprint (MD5): 1d:35:54:04:85:78:b0:3f:42:42:4d:bf:20:73:0a:3f
Fingerprint (SHA1): 02:fa:f3:e2:91:43:54:68:60:78:57:69:4d:f5:e4:5b:68:85:18:68
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AddTrust External CA Root"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\002\372\363\342\221\103\124\150\140\170\127\151\115\365\344\133
\150\205\030\150
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\035\065\124\004\205\170\260\077\102\102\115\277\040\163\012\077
END
CKA_ISSUER MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\123\105\061
\024\060\022\006\003\125\004\012\023\013\101\144\144\124\162\165
\163\164\040\101\102\061\046\060\044\006\003\125\004\013\023\035
\101\144\144\124\162\165\163\164\040\105\170\164\145\162\156\141
\154\040\124\124\120\040\116\145\164\167\157\162\153\061\042\060
\040\006\003\125\004\003\023\031\101\144\144\124\162\165\163\164
\040\105\170\164\145\162\156\141\154\040\103\101\040\122\157\157
\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "ECRaizEstado"
Issuer: CN=ECRaizEstado,O=SCEE,C=PT
Serial Number:42:ea:5b:0a:51:11:26:7c:d8:27:74:b7:df:7f:71
Subject: CN=ECRaizEstado,O=SCEE,C=PT
Not Valid Before: Fri Jun 23 13:41:27 2006
Not Valid After: Sun Jun 23 13:41:27 2030
Fingerprint (MD5): c2:db:ab:8e:96:52:c5:ee:ae:f2:55:00:89:6d:55:95
Fingerprint (SHA1): 39:13:85:3e:45:c4:39:a2:da:71:8c:df:b6:f3:e0:33:e0:4f:ee:71
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ECRaizEstado"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\063\061\013\060\011\006\003\125\004\006\023\002\120\124\061
\015\060\013\006\003\125\004\012\014\004\123\103\105\105\061\025
\060\023\006\003\125\004\003\014\014\105\103\122\141\151\172\105
\163\164\141\144\157
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL

\060\063\061\013\060\011\006\003\125\004\006\023\002\120\124\061
\015\060\013\006\003\125\004\012\014\004\123\103\105\105\061\025
\060\023\006\003\125\004\003\014\014\105\103\122\141\151\172\105
\163\164\141\144\157
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\017\102\352\133\012\121\021\046\174\330\047\164\267\337\177
\161
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\156\060\202\003\126\240\003\002\001\002\002\017\102
\352\133\012\121\021\046\174\330\047\164\267\337\177\161\060\015
\006\011\052\206\110\206\367\015\001\001\005\005\000\060\063\061
\013\060\011\006\003\125\004\006\023\002\120\124\061\015\060\013
\006\003\125\004\012\014\004\123\103\105\105\061\025\060\023\006
\003\125\004\003\014\014\105\103\122\141\151\172\105\163\164\141
\144\157\060\036\027\015\060\066\060\066\062\063\061\063\064\061
\062\067\132\027\015\063\060\060\066\062\063\061\063\064\061\062
\067\132\060\063\061\013\060\011\006\003\125\004\006\023\002\120
\124\061\015\060\013\006\003\125\004\012\014\004\123\103\105\105
\061\025\060\023\006\003\125\004\003\014\014\105\103\122\141\151
\172\105\163\164\141\144\157\060\202\002\042\060\015\006\011\052
\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060
\202\002\012\002\202\002\001\000\333\357\242\103\156\310\251\375
\156\327\337\254\242\222\204\241\310\131\240\014\232\123\376\357
\256\314\031\015\162\212\244\302\063\043\357\347\006\162\352\155
\113\072\101\122\017\311\110\016\055\347\272\144\356\242\072\114
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\260\223\230\233\367\115\132\023\370\347\233\367\066\166\336\174
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\126\060\077\346\017\153\006\167\376\144\235\132\152\163\174\356
\336\041\351\232\111\227\067\266\204\177\242\221\076\105\373\327
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\101\220\372\310\334\273\021\334\015\314\175\174\233\334\016\221
\161\206\115\270\362\025\232\053\070\027\021\241\362\236\250\154
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\105\024\376\032\165\177\245\017\334\122\164\131\165\012\370\373
\125\101\251\134\215\061\104\335\315\224\116\063\321\033\101\252
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END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "ECRaizEstado"
Issuer: CN=ECRaizEstado,O=SCEE,C=PT
Serial Number:42:ea:5b:0a:51:11:26:7c:d8:27:74:b7:df:7f:71
Subject: CN=ECRaizEstado,O=SCEE,C=PT
Not Valid Before: Fri Jun 23 13:41:27 2006
Not Valid After: Sun Jun 23 13:41:27 2030
Fingerprint (MD5): c2:db:ab:8e:96:52:c5:ee:ae:f2:55:00:89:6d:55:95
Fingerprint (SHA1): 39:13:85:3e:45:c4:39:a2:da:71:8c:df:b6:f3:e0:33:e0:4f:ee:71
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ECRaizEstado"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\071\023\205\076\105\304\071\242\332\161\214\337\266\363\340\063
\340\117\356\161
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\302\333\253\216\226\122\305\356\256\362\125\000\211\155\125\225
END
CKA_ISSUER MULTILINE_OCTAL
\060\063\061\013\060\011\006\003\125\004\006\023\002\120\124\061
\015\060\013\006\003\125\004\012\014\004\123\103\105\105\061\025
\060\023\006\003\125\004\003\014\014\105\103\122\141\151\172\105
\163\164\141\144\157
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\017\102\352\133\012\121\021\046\174\330\047\164\267\337\177
\161
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Configuration"
Issuer: CN=Posta CA Root,CN=AIA,CN=Public Key
Services,CN=Services,CN=Configuration,DC=ca,DC=posta,DC=rs
Serial Number:48:fc:7e:f5

Subject: CN=Posta CA Root,CN=AIA,CN=Public Key
Services,CN=Services,CN=Configuration,DC=ca,DC=posta,DC=rs
Not Valid Before: Mon Oct 20 12:22:08 2008
Not Valid After: Fri Oct 20 12:52:08 2028
Fingerprint (MD5): 18:02:b0:01:27:03:6a:19:1b:32:3b:83:de:9a:a9:85
Fingerprint (SHA1): d6:bf:79:94:f4:2b:e5:fa:29:da:0b:d7:58:7b:59:1f:47:a4:4f:22
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Configuration"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\256\061\022\060\020\006\012\011\222\046\211\223\362\054
\144\001\031\026\002\162\163\061\025\060\023\006\012\011\222\046
\211\223\362\054\144\001\031\026\005\160\157\163\164\141\061\022
\060\020\006\012\011\222\046\211\223\362\054\144\001\031\026\002
\143\141\061\026\060\024\006\003\125\004\003\023\015\103\157\156
\146\151\147\165\162\141\164\151\157\156\061\021\060\017\006\003
\125\004\003\023\010\123\145\162\166\151\143\145\163\061\034\060
\032\006\003\125\004\003\023\023\120\165\142\154\151\143\040\113
\145\171\040\123\145\162\166\151\143\145\163\061\014\060\012\006
\003\125\004\003\023\003\101\111\101\061\026\060\024\006\003\125
\004\003\023\015\120\157\163\164\141\040\103\101\040\122\157\157
\164
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CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
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\144\001\031\026\002\162\163\061\025\060\023\006\012\011\222\046
\211\223\362\054\144\001\031\026\005\160\157\163\164\141\061\022
\060\020\006\012\011\222\046\211\223\362\054\144\001\031\026\002
\143\141\061\026\060\024\006\003\125\004\003\023\015\103\157\156
\146\151\147\165\162\141\164\151\157\156\061\021\060\017\006\003
\125\004\003\023\010\123\145\162\166\151\143\145\163\061\034\060
\032\006\003\125\004\003\023\023\120\165\142\154\151\143\040\113
\145\171\040\123\145\162\166\151\143\145\163\061\014\060\012\006
\003\125\004\003\023\003\101\111\101\061\026\060\024\006\003\125
\004\003\023\015\120\157\163\164\141\040\103\101\040\122\157\157
\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\110\374\176\365
END
CKA_VALUE MULTILINE_OCTAL
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\374\176\365\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\060\201\256\061\022\060\020\006\012\011\222\046\211\223

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\222\046\211\223\362\054\144\001\031\026\005\160\157\163\164\141
\061\022\060\020\006\012\011\222\046\211\223\362\054\144\001\031
\026\002\143\141\061\026\060\024\006\003\125\004\003\023\015\103
\157\156\146\151\147\165\162\141\164\151\157\156\061\021\060\017
\006\003\125\004\003\023\010\123\145\162\166\151\143\145\163\061
\034\060\032\006\003\125\004\003\023\023\120\165\142\154\151\143
\040\113\145\171\040\123\145\162\166\151\143\145\163\061\014\060
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\157\157\164\060\036\027\015\060\070\061\060\062\060\061\062\062
\062\060\070\132\027\015\062\070\061\060\062\060\061\062\065\062
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\123\332\113\042\123\314\312\052\044\232\142\252\304\062\232\176
\334\314\301\262\154\315\217\331\264\300\317\365\002\300\214\053
\204\133\033\100\274\020\320\120\341\141\326\146\126\232\004\221
\245\343\325\275\240\056\042\201\261\331\070\332\344\250\207\137
\074\106\004\226\336\311\232\073\277\255\170\154\035\111\111\264
\151\271\160\017\005\222\126\266\375\257\256\370\040\055\107\043
\317\266\034\315\304\233\200\116\371\277\061\300\124\276\273\061
\177\363\076
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Configuration"
Issuer: CN=Posta CA Root,CN=AIA,CN=Public Key
Services,CN=Services,CN=Configuration,DC=ca,DC=posta,DC=rs
Serial Number:48:fc:7e:f5
Subject: CN=Posta CA Root,CN=AIA,CN=Public Key
Services,CN=Services,CN=Configuration,DC=ca,DC=posta,DC=rs
Not Valid Before: Mon Oct 20 12:22:08 2008
Not Valid After: Fri Oct 20 12:52:08 2028
Fingerprint (MD5): 18:02:b0:01:27:03:6a:19:1b:32:3b:83:de:9a:a9:85
Fingerprint (SHA1): d6:bf:79:94:f4:2b:e5:fa:29:da:0b:d7:58:7b:59:1f:47:a4:4f:22
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Configuration"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\326\277\171\224\364\053\345\372\051\332\013\327\130\173\131\037
\107\244\117\042
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\030\002\260\001\047\003\152\031\033\062\073\203\336\232\251\205
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\256\061\022\060\020\006\012\011\222\046\211\223\362\054
\144\001\031\026\002\162\163\061\025\060\023\006\012\011\222\046
\211\223\362\054\144\001\031\026\005\160\157\163\164\141\061\022

\060\020\006\012\011\222\046\211\223\362\054\144\001\031\026\002
\143\141\061\026\060\024\006\003\125\004\003\023\015\103\157\156
\146\151\147\165\162\141\164\151\157\156\061\021\060\017\006\003
\125\004\003\023\010\123\145\162\166\151\143\145\163\061\034\060
\032\006\003\125\004\003\023\023\120\165\142\154\151\143\040\113
\145\171\040\123\145\162\166\151\143\145\163\061\014\060\012\006
\003\125\004\003\023\003\101\111\101\061\026\060\024\006\003\125
\004\003\023\015\120\157\163\164\141\040\103\101\040\122\157\157
\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\110\374\176\365
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "FNMT-RCM"
Issuer: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
Serial Number:81:bb:dd:6b:24:1f:da:b4:be:8f:1b:da:08:55:c4
Subject: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
Not Valid Before: Wed Oct 29 15:59:55 2008
Not Valid After: Tue Jan 01 00:00:00 2030
Fingerprint (MD5): 0c:5a:dd:5a:ae:29:f7:a7:76:79:fa:41:51:fe:f0:35
Fingerprint (SHA1): b8:65:13:0b:ed:ca:38:d2:7f:69:92:94:20:77:0b:ed:86:ef:bc:10
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "FNMT-RCM"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122
\103\115\061\031\060\027\006\003\125\004\013\014\020\101\103\040
\122\101\111\132\040\106\116\115\124\055\122\103\115
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122
\103\115\061\031\060\027\006\003\125\004\013\014\020\101\103\040
\122\101\111\132\040\106\116\115\124\055\122\103\115
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\000\201\273\335\153\044\037\332\264\276\217\033\332\010

\125\304
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\204\060\202\003\154\240\003\002\001\002\002\020\000
\201\273\335\153\044\037\332\264\276\217\033\332\010\125\304\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\073
\061\013\060\011\006\003\125\004\006\023\002\105\123\061\021\060
\017\006\003\125\004\012\014\010\106\116\115\124\055\122\103\115
\061\031\060\027\006\003\125\004\013\014\020\101\103\040\122\101
\111\132\040\106\116\115\124\055\122\103\115\060\036\027\015\060
\070\061\060\062\071\061\065\065\071\065\065\132\027\015\063\060
\060\061\060\061\060\060\060\060\060\060\132\060\073\061\013\060
\011\006\003\125\004\006\023\002\105\123\061\021\060\017\006\003
\125\004\012\014\010\106\116\115\124\055\122\103\115\061\031\060
\027\006\003\125\004\013\014\020\101\103\040\122\101\111\132\040
\106\116\115\124\055\122\103\115\060\202\002\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000
\060\202\002\012\002\202\002\001\000\272\161\200\172\114\206\156
\177\310\023\155\300\306\175\034\000\227\217\054\014\043\273\020
\232\100\251\032\267\207\210\370\233\126\152\373\346\173\216\213
\222\216\247\045\135\131\021\333\066\056\267\121\027\037\251\010
\037\004\027\044\130\252\067\112\030\337\345\071\324\127\375\327
\301\054\221\001\221\342\042\324\003\300\130\374\167\107\354\217
\076\164\103\272\254\064\215\115\070\166\147\216\260\310\157\060
\063\130\161\134\264\365\153\156\324\001\120\270\023\176\154\112
\243\111\321\040\031\356\274\300\051\030\145\247\336\376\357\335
\012\220\041\347\032\147\222\102\020\230\137\117\060\274\076\034
\105\264\020\327\150\100\024\300\100\372\347\167\027\172\346\013
\217\145\133\074\331\232\122\333\265\275\236\106\317\075\353\221
\005\002\300\226\262\166\114\115\020\226\073\222\372\234\177\017
\231\337\276\043\065\105\036\002\134\376\265\250\233\231\045\332
\136\363\042\303\071\365\344\052\056\323\306\037\304\154\252\305
\034\152\001\005\112\057\322\305\301\250\064\046\135\146\245\322
\002\041\371\030\267\006\365\116\231\157\250\253\114\121\350\317
\120\030\305\167\310\071\011\054\111\222\062\231\250\273\027\027
\171\260\132\305\346\243\304\131\145\107\065\203\136\251\350\065
\013\231\273\344\315\040\306\233\112\006\071\265\150\374\042\272
\356\125\214\053\116\352\363\261\343\374\266\231\232\325\102\372
\161\115\010\317\207\036\152\161\175\371\323\264\351\245\161\201
\173\302\116\107\226\245\366\166\205\243\050\217\351\200\156\201
\123\245\155\137\270\110\371\302\371\066\246\056\111\377\270\226
\302\214\007\263\233\210\130\374\353\033\034\336\055\160\342\227
\222\060\241\211\343\274\125\250\047\326\113\355\220\255\213\372
\143\045\131\055\250\065\335\312\227\063\274\345\315\307\235\321
\354\357\136\016\112\220\006\046\143\255\271\331\065\055\007\272
\166\145\054\254\127\217\175\364\007\224\327\201\002\226\135\243
\007\111\325\172\320\127\371\033\347\123\106\165\252\260\171\102
\313\150\161\010\351\140\275\071\151\316\364\257\303\126\100\307

\255\122\242\011\344\157\206\107\212\037\353\050\047\135\203\040
\257\004\311\154\126\232\213\106\365\002\003\001\000\001\243\201
\203\060\201\200\060\017\006\003\125\035\023\001\001\377\004\005
\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377\004
\004\003\002\001\006\060\035\006\003\125\035\016\004\026\004\024
\367\175\305\375\304\350\232\033\167\144\247\365\035\240\314\277
\207\140\232\155\060\076\006\003\125\035\040\004\067\060\065\060
\063\006\004\125\035\040\000\060\053\060\051\006\010\053\006\001
\005\005\007\002\001\026\035\150\164\164\160\072\057\057\167\167
\167\056\143\145\162\164\056\146\156\155\164\056\145\163\057\144
\160\143\163\057\060\015\006\011\052\206\110\206\367\015\001\001
\005\005\000\003\202\002\001\000\166\271\046\327\274\140\174\073
\303\307\204\121\222\131\171\266\215\277\123\340\274\210\240\265
\331\114\351\255\365\146\116\357\240\140\310\013\270\221\355\063
\216\202\361\206\225\376\306\323\032\211\253\117\073\331\063\037
\320\013\307\261\365\117\244\113\273\003\014\043\134\154\260\336
\254\162\372\151\336\000\020\315\361\326\317\066\122\276\177\374
\046\101\363\362\374\060\342\061\306\333\020\076\251\164\272\117
\354\355\040\231\311\260\342\242\243\251\102\231\063\313\177\367
\252\002\351\044\226\052\370\344\316\135\101\240\006\011\125\132
\332\337\032\117\353\071\374\137\340\251\251\104\327\030\352\225
\261\104\173\332\352\070\011\164\036\147\050\077\340\213\071\054
\123\372\014\340\071\367\053\032\016\061\001\324\146\171\210\164
\235\110\110\216\264\223\141\346\277\051\011\357\276\006\251\032
\154\010\160\004\012\277\156\011\166\244\144\103\316\037\127\235
\227\236\154\370\164\027\034\121\003\372\140\123\324\126\106\226
\320\120\237\306\235\063\363\103\261\250\327\242\311\260\311\203
\261\175\307\334\254\201\166\327\211\355\103\046\326\377\242\134
\242\055\240\044\107\252\106\232\151\061\011\301\375\020\171\260
\205\354\160\040\346\075\101\124\242\112\142\057\326\336\114\303
\234\217\275\313\246\125\224\034\335\275\101\317\050\145\215\320
\115\327\207\321\114\323\103\163\041\354\327\056\027\147\062\207
\266\320\033\164\252\151\307\344\154\207\327\175\031\232\354\075
\104\361\252\202\131\162\315\105\333\332\146\102\341\070\154\066
\137\124\335\046\126\127\242\331\076\244\012\362\357\374\031\200
\037\333\272\252\200\274\330\121\315\124\152\325\177\330\157\265
\334\026\373\100\342\125\124\220\303\335\207\063\321\377\036\245
\142\213\066\104\254\250\277\300\326\304\224\167\263\275\304\165
\044\151\351\377\071\224\253\374\121\147\044\352\100\036\353\211
\055\023\006\175\256\007\241\303\014\365\324\132\262\116\267\041
\035\027\305\345\271\362\037\343\206\001\135\013\006\171\135\311
\312\077\026\176\201\036\115\176\360\232\074\045\305\316\164\171
\236\112\341\361\351\365\045\106\366\304\336\344\104\144\163\035
\306\071\076\172\346\205\173\030
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "FNMT-RCM"
Issuer: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
Serial Number:81:bb:dd:6b:24:1f:da:b4:be:8f:1b:da:08:55:c4
Subject: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
Not Valid Before: Wed Oct 29 15:59:55 2008
Not Valid After: Tue Jan 01 00:00:00 2030
Fingerprint (MD5): 0c:5a:dd:5a:ae:29:f7:a7:76:79:fa:41:51:fe:f0:35
Fingerprint (SHA1): b8:65:13:0b:ed:ca:38:d2:7f:69:92:94:20:77:0b:ed:86:ef:bc:10
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "FNMT-RCM"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\270\145\023\013\355\312\070\322\177\151\222\224\040\167\013\355
\206\357\274\020
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\014\132\335\132\256\051\367\247\166\171\372\101\121\376\360\065
END
CKA_ISSUER MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122
\103\115\061\031\060\027\006\003\125\004\013\014\020\101\103\040
\122\101\111\132\040\106\116\115\124\055\122\103\115
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\000\201\273\335\153\044\037\332\264\276\217\033\332\010
\125\304
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "StartCom Certification Authority"
Issuer: CN=StartCom Certification Authority,OU=Secure Digital Certificate Signing,O=StartCom Ltd.,C=IL
Serial Number: 1 (0x1)
Subject: CN=StartCom Certification Authority,OU=Secure Digital Certificate Signing,O=StartCom Ltd.,C=IL
Not Valid Before: Sun Sep 17 19:46:36 2006
Not Valid After: Wed Sep 17 19:46:36 2036
Fingerprint (MD5): 22:4d:8f:8a:fc:f7:35:c2:bb:57:34:90:7b:8b:22:16
Fingerprint (SHA1): 3e:2b:f7:f2:03:1b:96:f3:8c:e6:c4:d8:a8:5d:3e:2d:58:47:6a:0f
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "StartCom Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\175\061\013\060\011\006\003\125\004\006\023\002\111\114\061
\026\060\024\006\003\125\004\012\023\015\123\164\141\162\164\103
\157\155\040\114\164\144\056\061\053\060\051\006\003\125\004\013
\023\042\123\145\143\165\162\145\040\104\151\147\151\164\141\154
\040\103\145\162\164\151\146\151\143\141\164\145\040\123\151\147
\156\151\156\147\061\051\060\047\006\003\125\004\003\023\040\123
\164\141\162\164\103\157\155\040\103\145\162\164\151\146\151\143
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\175\061\013\060\011\006\003\125\004\006\023\002\111\114\061
\026\060\024\006\003\125\004\012\023\015\123\164\141\162\164\103
\157\155\040\114\164\144\056\061\053\060\051\006\003\125\004\013
\023\042\123\145\143\165\162\145\040\104\151\147\151\164\141\154
\040\103\145\162\164\151\146\151\143\141\164\145\040\123\151\147
\156\151\156\147\061\051\060\047\006\003\125\004\003\023\040\123
\164\141\162\164\103\157\155\040\103\145\162\164\151\146\151\143
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\007\311\060\202\005\261\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\175\061\013\060\011\006\003\125\004\006\023\002\111\114\061\026
\060\024\006\003\125\004\012\023\015\123\164\141\162\164\103\157
\155\040\114\164\144\056\061\053\060\051\006\003\125\004\013\023
\042\123\145\143\165\162\145\040\104\151\147\151\164\141\154\040
\103\145\162\164\151\146\151\143\141\164\145\040\123\151\147\156
\151\156\147\061\051\060\047\006\003\125\004\003\023\040\123\164
\141\162\164\103\157\155\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\060\036
\027\015\060\066\060\071\061\067\061\071\064\066\063\066\132\027
\015\063\066\060\071\061\067\061\071\064\066\063\066\132\060\175
\061\013\060\011\006\003\125\004\006\023\002\111\114\061\026\060
\024\006\003\125\004\012\023\015\123\164\141\162\164\103\157\155
\040\114\164\144\056\061\053\060\051\006\003\125\004\013\023\042
\123\145\143\165\162\145\040\104\151\147\151\164\141\154\040\103
\145\162\164\151\146\151\143\141\164\145\040\123\151\147\156\151
\156\147\061\051\060\047\006\003\125\004\003\023\040\123\164\141
\162\164\103\157\155\040\103\145\162\164\151\146\151\143\141\164

\151\157\156\040\101\165\164\150\157\162\151\164\171\060\202\002
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000
\003\202\002\017\000\060\202\002\012\002\202\002\001\000\301\210
\333\011\274\154\106\174\170\237\225\173\265\063\220\362\162\142
\326\301\066\040\042\044\136\316\351\167\362\103\012\242\006\144
\244\314\216\066\370\070\346\043\360\156\155\261\074\335\162\243
\205\034\241\323\075\264\063\053\323\057\257\376\352\260\101\131
\147\266\304\006\175\012\236\164\205\326\171\114\200\067\172\337
\071\005\122\131\367\364\033\106\103\244\322\205\205\322\303\161
\363\165\142\064\272\054\212\177\036\217\356\355\064\320\021\307
\226\315\122\075\272\063\326\335\115\336\013\073\112\113\237\302
\046\057\372\265\026\034\162\065\167\312\074\135\346\312\341\046
\213\032\066\166\134\001\333\164\024\045\376\355\265\240\210\017
\335\170\312\055\037\007\227\060\001\055\162\171\372\106\326\023
\052\250\271\246\253\203\111\035\345\362\357\335\344\001\216\030
\012\217\143\123\026\205\142\251\016\031\072\314\265\146\246\302
\153\164\007\344\053\341\166\076\264\155\330\366\104\341\163\142
\037\073\304\276\240\123\126\045\154\121\011\367\252\253\312\277
\166\375\155\233\363\235\333\277\075\146\274\014\126\252\257\230
\110\225\072\113\337\247\130\120\331\070\165\251\133\352\103\014
\002\377\231\353\350\154\115\160\133\051\145\234\335\252\135\314
\257\001\061\354\014\353\322\215\350\352\234\173\346\156\367\047
\146\014\032\110\327\156\102\343\077\336\041\076\173\341\015\160
\373\143\252\250\154\032\124\264\134\045\172\311\242\311\213\026
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\032\110\151\213\302\226\115\032\022\262\151\027\301\012\220\326
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\147\072\335\376\252\234\360\324\213\177\162\042\316\306\237\227
\266\370\257\212\240\020\250\331\373\030\306\266\265\134\122\074
\211\266\031\052\163\001\012\017\003\263\022\140\362\172\057\201
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\257\053\305\267\166\002\360\245\326\053\232\206\024\052\162\366
\343\063\214\135\011\113\023\337\273\214\164\023\122\113\002\003
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\035\023\004\005\060\003\001\001\377\060\013\006\003\125\035\017
\004\004\003\002\001\256\060\035\006\003\125\035\016\004\026\004
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\103\320\101\256\362\060\144\006\003\125\035\037\004\135\060\133
\060\054\240\052\240\050\206\046\150\164\164\160\072\057\057\143
\145\162\164\056\163\164\141\162\164\143\157\155\056\157\162\147
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\240\051\240\047\206\045\150\164\164\160\072\057\057\143\162\154
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\163\143\141\055\143\162\154\056\143\162\154\060\202\001\135\006
\003\125\035\040\004\202\001\124\060\202\001\120\060\202\001\114
\006\013\053\006\001\004\001\201\265\067\001\001\001\060\202\001

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\144\146\060\065\006\010\053\006\001\005\005\007\002\001\026\051
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\001\005\005\007\002\002\060\201\303\060\047\026\040\123\164\141
\162\164\040\103\157\155\155\145\162\143\151\141\154\040\050\123
\164\141\162\164\103\157\155\051\040\114\164\144\056\060\003\002
\001\001\032\201\227\114\151\155\151\164\145\144\040\114\151\141
\142\151\154\151\164\171\054\040\162\145\141\144\040\164\150\145
\040\163\145\143\164\151\157\156\040\052\114\145\147\141\154\040
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\164\150\145\040\123\164\141\162\164\103\157\155\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171\040\120\157\154\151\143\171\040\141\166\141\151
\154\141\142\154\145\040\141\164\040\150\164\164\160\072\057\057
\143\145\162\164\056\163\164\141\162\164\143\157\155\056\157\162
\147\057\160\157\154\151\143\171\056\160\144\146\060\021\006\011
\140\206\110\001\206\370\102\001\001\004\004\003\002\000\007\060
\070\006\011\140\206\110\001\206\370\102\001\015\004\053\026\051
\123\164\141\162\164\103\157\155\040\106\162\145\145\040\123\123
\114\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\101\165\164\150\157\162\151\164\171\060\015\006\011\052\206\110
\206\367\015\001\001\005\005\000\003\202\002\001\000\026\154\231
\364\146\014\064\365\320\205\136\175\012\354\332\020\116\070\034
\136\337\246\045\005\113\221\062\301\350\073\361\075\335\104\011
\133\007\111\212\051\313\146\002\267\261\232\367\045\230\011\074
\216\033\341\335\066\207\053\113\273\150\323\071\146\075\240\046
\307\362\071\221\035\121\253\202\173\176\325\316\132\344\342\003
\127\160\151\227\010\371\136\130\246\012\337\214\006\232\105\026
\026\070\012\136\127\366\142\307\172\002\005\346\274\036\265\362
\236\364\251\051\203\370\262\024\343\156\050\207\104\303\220\032
\336\070\251\074\254\103\115\144\105\316\335\050\251\134\362\163
\173\004\370\027\350\253\261\363\056\134\144\156\163\061\072\022
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\146\173\074\003\355\323\232\035\232\363\145\120\365\240\320\165
\237\057\257\360\352\202\103\230\370\151\234\211\171\304\103\216
\106\162\343\144\066\022\257\367\045\036\070\211\220\167\176\303
\153\152\271\303\313\104\113\254\170\220\213\347\307\054\036\113
\021\104\310\064\122\047\315\012\135\237\205\301\211\325\032\170
\362\225\020\123\062\335\200\204\146\165\331\265\150\050\373\141
\056\276\204\250\070\300\231\022\206\245\036\147\144\255\006\056
\057\251\160\205\307\226\017\174\211\145\365\216\103\124\016\253
\335\245\200\071\224\140\300\064\311\226\160\054\243\022\365\037
\110\173\275\034\176\153\267\235\220\364\042\073\256\370\374\052
\312\372\202\122\240\357\257\113\125\223\353\301\265\360\042\213

\254\064\116\046\042\004\241\207\054\165\112\267\345\175\023\327
\270\014\144\300\066\322\311\057\206\022\214\043\011\301\033\202
\073\163\111\243\152\127\207\224\345\326\170\305\231\103\143\343
\115\340\167\055\341\145\231\162\151\004\032\107\011\346\017\001
\126\044\373\037\277\016\171\251\130\056\271\304\011\001\176\225
\272\155\000\006\076\262\352\112\020\071\330\320\053\365\277\354
\165\277\227\002\305\011\033\010\334\125\067\342\201\373\067\204
\103\142\040\312\347\126\113\145\352\376\154\301\044\223\044\241
\064\353\005\377\232\042\256\233\175\077\361\145\121\012\246\060
\152\263\364\210\034\200\015\374\162\212\350\203\136
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "StartCom Certification Authority"
Issuer: CN=StartCom Certification Authority,OU=Secure Digital Certificate Signing,O=StartCom Ltd.,C=IL
Serial Number: 1 (0x1)
Subject: CN=StartCom Certification Authority,OU=Secure Digital Certificate Signing,O=StartCom Ltd.,C=IL
Not Valid Before: Sun Sep 17 19:46:36 2006
Not Valid After: Wed Sep 17 19:46:36 2036
Fingerprint (MD5): 22:4d:8f:8a:fc:f7:35:c2:bb:57:34:90:7b:8b:22:16
Fingerprint (SHA1): 3e:2b:f7:f2:03:1b:96:f3:8c:e6:c4:d8:a8:5d:3e:2d:58:47:6a:0f
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "StartCom Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\076\053\367\362\003\033\226\363\214\346\304\330\250\135\076\055
\130\107\152\017
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\042\115\217\212\374\367\065\302\273\127\064\220\173\213\042\026
END
CKA_ISSUER MULTILINE_OCTAL
\060\175\061\013\060\011\006\003\125\004\006\023\002\111\114\061
\026\060\024\006\003\125\004\012\023\015\123\164\141\162\164\103
\157\155\040\114\164\144\056\061\053\060\051\006\003\125\004\013
\023\042\123\145\143\165\162\145\040\104\151\147\151\164\141\154
\040\103\145\162\164\151\146\151\143\141\164\145\040\123\151\147
\156\151\156\147\061\051\060\047\006\003\125\004\003\023\040\123
\164\141\162\164\103\157\155\040\103\145\162\164\151\146\151\143
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001

END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "VeriSign Class 3 Public Primary Certification Authority - G4"
Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G4,OU=(c) 2007 VeriSign\, Inc. - For authorized use only,OU=VeriSign Trust Network,O=VeriSign\, Inc.,C=US
Serial Number:2f:80:fe:23:8c:0e:22:0f:48:67:12:28:91:87:ac:b3
Subject: CN=VeriSign Class 3 Public Primary Certification Authority - G4,OU=(c) 2007 VeriSign\, Inc. - For authorized use only,OU=VeriSign Trust Network,O=VeriSign\, Inc.,C=US
Not Valid Before: Mon Nov 05 00:00:00 2007
Not Valid After: Mon Jan 18 23:59:59 2038
Fingerprint (MD5): 3a:52:e1:e7:fd:6f:3a:e3:6f:f3:6f:99:1b:f9:22:41
Fingerprint (SHA1): 22:d5:d8:df:8f:02:31:d1:8d:f7:9d:b7:cf:8a:2d:64:c9:3f:6c:3a
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "VeriSign Class 3 Public Primary Certification Authority - G4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\062\060\060\067\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\063\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\064
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\062\060\060\067\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163

\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\063\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
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\254\263
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\204\060\202\003\012\240\003\002\001\002\002\020\057
\200\376\043\214\016\042\017\110\147\022\050\221\207\254\263\060
\012\006\010\052\206\110\316\075\004\003\003\060\201\312\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\027\060\025\006
\003\125\004\012\023\016\126\145\162\151\123\151\147\156\054\040
\111\156\143\056\061\037\060\035\006\003\125\004\013\023\026\126
\145\162\151\123\151\147\156\040\124\162\165\163\164\040\116\145
\164\167\157\162\153\061\072\060\070\006\003\125\004\013\023\061
\050\143\051\040\062\060\060\067\040\126\145\162\151\123\151\147
\156\054\040\111\156\143\056\040\055\040\106\157\162\040\141\165
\164\150\157\162\151\172\145\144\040\165\163\145\040\157\156\154
\171\061\105\060\103\006\003\125\004\003\023\074\126\145\162\151
\123\151\147\156\040\103\154\141\163\163\040\063\040\120\165\142
\154\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\040\055\040\107\064\060\036\027\015\060\067\061\061
\060\065\060\060\060\060\060\060\132\027\015\063\070\060\061\061
\070\062\063\065\071\065\071\132\060\201\312\061\013\060\011\006
\003\125\004\006\023\002\125\123\061\027\060\025\006\003\125\004
\012\023\016\126\145\162\151\123\151\147\156\054\040\111\156\143
\056\061\037\060\035\006\003\125\004\013\023\026\126\145\162\151
\123\151\147\156\040\124\162\165\163\164\040\116\145\164\167\157
\162\153\061\072\060\070\006\003\125\004\013\023\061\050\143\051
\040\062\060\060\067\040\126\145\162\151\123\151\147\156\054\040
\111\156\143\056\040\055\040\106\157\162\040\141\165\164\150\157
\162\151\172\145\144\040\165\163\145\040\157\156\154\171\061\105
\060\103\006\003\125\004\003\023\074\126\145\162\151\123\151\147
\156\040\103\154\141\163\163\040\063\040\120\165\142\154\151\143
\040\120\162\151\155\141\162\171\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\055\040\107\064\060\166\060\020\006\007\052\206\110\316\075
\002\001\006\005\053\201\004\000\042\003\142\000\004\247\126\172
\174\122\332\144\233\016\055\134\330\136\254\222\075\376\001\346
\031\112\075\024\003\113\372\140\047\040\331\203\211\151\372\124
\306\232\030\136\125\052\144\336\006\366\215\112\073\255\020\074
\145\075\220\210\004\211\340\060\141\263\256\135\001\247\173\336
\174\262\276\312\145\141\000\206\256\332\217\173\320\211\255\115

\035\131\232\101\261\274\107\200\334\236\142\303\371\243\201\262
\060\201\257\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\006\060\155\006\010\053\006\001\005\005\007\001\014
\004\141\060\137\241\135\240\133\060\131\060\127\060\125\026\011
\151\155\141\147\145\057\147\151\146\060\041\060\037\060\007\006
\005\053\016\003\002\032\004\024\217\345\323\032\206\254\215\216
\153\303\317\200\152\324\110\030\054\173\031\056\060\045\026\043
\150\164\164\160\072\057\057\154\157\147\157\056\166\145\162\151
\163\151\147\156\056\143\157\155\057\166\163\154\157\147\157\056
\147\151\146\060\035\006\003\125\035\016\004\026\004\024\263\026
\221\375\356\246\156\344\265\056\111\217\207\170\201\200\354\345
\261\265\060\012\006\010\052\206\110\316\075\004\003\003\003\150
\000\060\145\002\060\146\041\014\030\046\140\132\070\173\126\102
\340\247\374\066\204\121\221\040\054\166\115\103\075\304\035\204
\043\320\254\326\174\065\006\316\315\151\275\220\015\333\154\110
\102\035\016\252\102\002\061\000\234\075\110\071\043\071\130\032
\025\022\131\152\236\357\325\131\262\035\122\054\231\161\315\307
\051\337\033\052\141\173\161\321\336\363\300\345\015\072\112\252
\055\247\330\206\052\335\056\020
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "VeriSign Class 3 Public Primary Certification Authority - G4"
Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G4,OU=(c) 2007 VeriSign\, Inc. - For authorized use only,OU=VeriSign Trust Network,O=VeriSign\, Inc.,C=US
Serial Number:2f:80:fe:23:8c:0e:22:0f:48:67:12:28:91:87:ac:b3
Subject: CN=VeriSign Class 3 Public Primary Certification Authority - G4,OU=(c) 2007 VeriSign\, Inc. - For authorized use only,OU=VeriSign Trust Network,O=VeriSign\, Inc.,C=US
Not Valid Before: Mon Nov 05 00:00:00 2007
Not Valid After: Mon Jan 18 23:59:59 2038
Fingerprint (MD5): 3a:52:e1:e7:fd:6f:3a:e3:6f:f3:6f:99:1b:f9:22:41
Fingerprint (SHA1): 22:d5:d8:df:8f:02:31:d1:8d:f7:9d:b7:cf:8a:2d:64:c9:3f:6c:3a
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "VeriSign Class 3 Public Primary Certification Authority - G4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\042\325\330\337\217\002\061\321\215\367\235\267\317\212\055\144
\311\077\154\072
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\072\122\341\347\375\157\072\343\157\363\157\231\033\371\042\101
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\062\060\060\067\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\063\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\057\200\376\043\214\016\042\017\110\147\022\050\221\207
\254\263
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "thawte Primary Root CA - G2"
Issuer: CN=thawte Primary Root CA - G2,OU=(c) 2007 thawte\, Inc. - For authorized use only,O=thawte\, Inc.,C=US
Serial Number:35:fc:26:5c:d9:84:4f:c9:3d:26:3d:57:9b:ae:d7:56
Subject: CN=thawte Primary Root CA - G2,OU=(c) 2007 thawte\, Inc. - For authorized use only,O=thawte\, Inc.,C=US
Not Valid Before: Mon Nov 05 00:00:00 2007
Not Valid After: Mon Jan 18 23:59:59 2038
Fingerprint (MD5): 74:9d:ea:60:24:c4:fd:22:53:3e:cc:3a:72:d9:29:4f
Fingerprint (SHA1): aa:db:bc:22:23:8f:c4:01:a1:27:bb:38:dd:f4:1d:db:08:9e:f0:12
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "thawte Primary Root CA - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\204\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\025\060\023\006\003\125\004\012\023\014\164\150\141\167\164
\145\054\040\111\156\143\056\061\070\060\066\006\003\125\004\013
\023\057\050\143\051\040\062\060\060\067\040\164\150\141\167\164
\145\054\040\111\156\143\056\040\055\040\106\157\162\040\141\165
\164\150\157\162\151\172\145\144\040\165\163\145\040\157\156\154

\171\061\044\060\042\006\003\125\004\003\023\033\164\150\141\167
\164\145\040\120\162\151\155\141\162\171\040\122\157\157\164\040
\103\101\040\055\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\204\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\025\060\023\006\003\125\004\012\023\014\164\150\141\167\164
\145\054\040\111\156\143\056\061\070\060\066\006\003\125\004\013
\023\057\050\143\051\040\062\060\060\067\040\164\150\141\167\164
\145\054\040\111\156\143\056\040\055\040\106\157\162\040\141\165
\164\150\157\162\151\172\145\144\040\165\163\145\040\157\156\154
\171\061\044\060\042\006\003\125\004\003\023\033\164\150\141\167
\164\145\040\120\162\151\155\141\162\171\040\122\157\157\164\040
\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\065\374\046\134\331\204\117\311\075\046\075\127\233\256
\327\126
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\210\060\202\002\015\240\003\002\001\002\002\020\065
\374\046\134\331\204\117\311\075\046\075\127\233\256\327\126\060
\012\006\010\052\206\110\316\075\004\003\003\060\201\204\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\025\060\023\006
\003\125\004\012\023\014\164\150\141\167\164\145\054\040\111\156
\143\056\061\070\060\066\006\003\125\004\013\023\057\050\143\051
\040\062\060\060\067\040\164\150\141\167\164\145\054\040\111\156
\143\056\040\055\040\106\157\162\040\141\165\164\150\157\162\151
\172\145\144\040\165\163\145\040\157\156\154\171\061\044\060\042
\006\003\125\004\003\023\033\164\150\141\167\164\145\040\120\162
\151\155\141\162\171\040\122\157\157\164\040\103\101\040\055\040
\107\062\060\036\027\015\060\067\061\061\060\065\060\060\060\060
\060\060\132\027\015\063\070\060\061\061\070\062\063\065\071\065
\071\132\060\201\204\061\013\060\011\006\003\125\004\006\023\002
\125\123\061\025\060\023\006\003\125\004\012\023\014\164\150\141
\167\164\145\054\040\111\156\143\056\061\070\060\066\006\003\125
\004\013\023\057\050\143\051\040\062\060\060\067\040\164\150\141
\167\164\145\054\040\111\156\143\056\040\055\040\106\157\162\040
\141\165\164\150\157\162\151\172\145\144\040\165\163\145\040\157
\156\154\171\061\044\060\042\006\003\125\004\003\023\033\164\150
\141\167\164\145\040\120\162\151\155\141\162\171\040\122\157\157
\164\040\103\101\040\055\040\107\062\060\166\060\020\006\007\052
\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000
\004\242\325\234\202\173\225\235\361\122\170\207\376\212\026\277
\005\346\337\243\002\117\015\007\306\000\121\272\014\002\122\055
\042\244\102\071\304\376\217\352\311\301\276\324\115\377\237\172
\236\342\261\174\232\255\247\206\011\163\207\321\347\232\343\172

\245\252\156\373\272\263\160\300\147\210\242\065\324\243\232\261
\375\255\302\357\061\372\250\271\363\373\010\306\221\321\373\051
\225\243\102\060\100\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\035\006\003\125\035\016\004\026\004
\024\232\330\000\060\000\347\153\177\205\030\356\213\266\316\212
\014\370\021\341\273\060\012\006\010\052\206\110\316\075\004\003
\003\003\151\000\060\146\002\061\000\335\370\340\127\107\133\247
\346\012\303\275\365\200\212\227\065\015\033\211\074\124\206\167
\050\312\241\364\171\336\265\346\070\260\360\145\160\214\177\002
\124\302\277\377\330\241\076\331\317\002\061\000\304\215\224\374
\334\123\322\334\235\170\026\037\025\063\043\123\122\343\132\061
\135\235\312\256\275\023\051\104\015\047\133\250\347\150\234\022
\367\130\077\056\162\002\127\243\217\241\024\056
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "thawte Primary Root CA - G2"
Issuer: CN=thawte Primary Root CA - G2,OU=(c) 2007 thawte\, Inc. - For authorized use only,O=thawte\, Inc.,C=US
Serial Number:35:fc:26:5c:d9:84:4f:c9:3d:26:3d:57:9b:ae:d7:56
Subject: CN=thawte Primary Root CA - G2,OU=(c) 2007 thawte\, Inc. - For authorized use only,O=thawte\, Inc.,C=US
Not Valid Before: Mon Nov 05 00:00:00 2007
Not Valid After: Mon Jan 18 23:59:59 2038
Fingerprint (MD5): 74:9d:ea:60:24:c4:fd:22:53:3e:cc:3a:72:d9:29:4f
Fingerprint (SHA1): aa:db:bc:22:23:8f:c4:01:a1:27:bb:38:dd:f4:1d:db:08:9e:f0:12
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "thawte Primary Root CA - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\252\333\274\042\043\217\304\001\241\047\273\070\335\364\035\333
\010\236\360\022
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\164\235\352\140\044\304\375\042\123\076\314\072\162\331\051\117
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\204\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\025\060\023\006\003\125\004\012\023\014\164\150\141\167\164
\145\054\040\111\156\143\056\061\070\060\066\006\003\125\004\013
\023\057\050\143\051\040\062\060\060\067\040\164\150\141\167\164
\145\054\040\111\156\143\056\040\055\040\106\157\162\040\141\165

\164\150\157\162\151\172\145\144\040\165\163\145\040\157\156\154
\171\061\044\060\042\006\003\125\004\003\023\033\164\150\141\167
\164\145\040\120\162\151\155\141\162\171\040\122\157\157\164\040
\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\065\374\046\134\331\204\117\311\075\046\075\127\233\256
\327\126
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "GeoTrust Primary Certification Authority - G2"
Issuer: CN=GeoTrust Primary Certification Authority - G2,OU=(c) 2007 GeoTrust Inc. - For authorized use only,O=GeoTrust Inc.,C=US
Serial Number:3c:b2:f4:48:0a:00:e2:fe:eb:24:3b:5e:60:3e:c3:6b
Subject: CN=GeoTrust Primary Certification Authority - G2,OU=(c) 2007 GeoTrust Inc. - For authorized use only,O=GeoTrust Inc.,C=US
Not Valid Before: Mon Nov 05 00:00:00 2007
Not Valid After: Mon Jan 18 23:59:59 2038
Fingerprint (MD5): 01:5e:d8:6b:bd:6f:3d:8e:a1:31:f8:12:e0:98:73:6a
Fingerprint (SHA1): 8d:17:84:d5:37:f3:03:7d:ec:70:fe:57:8b:51:9a:99:e6:10:d7:b0
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Primary Certification Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162
\165\163\164\040\111\156\143\056\061\071\060\067\006\003\125\004
\013\023\060\050\143\051\040\062\060\060\067\040\107\145\157\124
\162\165\163\164\040\111\156\143\056\040\055\040\106\157\162\040
\141\165\164\150\157\162\151\172\145\144\040\165\163\145\040\157
\156\154\171\061\066\060\064\006\003\125\004\003\023\055\107\145
\157\124\162\165\163\164\040\120\162\151\155\141\162\171\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162
\165\163\164\040\111\156\143\056\061\071\060\067\006\003\125\004

\013\023\060\050\143\051\040\062\060\060\067\040\107\145\157\124
\162\165\163\164\040\111\156\143\056\040\055\040\106\157\162\040
\141\165\164\150\157\162\151\172\145\144\040\165\163\145\040\157
\156\154\171\061\066\060\064\006\003\125\004\003\023\055\107\145
\157\124\162\165\163\164\040\120\162\151\155\141\162\171\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\074\262\364\110\012\000\342\376\353\044\073\136\140\076
\303\153
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\256\060\202\002\065\240\003\002\001\002\002\020\074
\262\364\110\012\000\342\376\353\044\073\136\140\076\303\153\060
\012\006\010\052\206\110\316\075\004\003\003\060\201\230\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\026\060\024\006
\003\125\004\012\023\015\107\145\157\124\162\165\163\164\040\111
\156\143\056\061\071\060\067\006\003\125\004\013\023\060\050\143
\051\040\062\060\060\067\040\107\145\157\124\162\165\163\164\040
\111\156\143\056\040\055\040\106\157\162\040\141\165\164\150\157
\162\151\172\145\144\040\165\163\145\040\157\156\154\171\061\066
\060\064\006\003\125\004\003\023\055\107\145\157\124\162\165\163
\164\040\120\162\151\155\141\162\171\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\040\055\040\107\062\060\036\027\015\060\067\061\061\060\065
\060\060\060\060\060\060\132\027\015\063\070\060\061\061\070\062
\063\065\071\065\071\132\060\201\230\061\013\060\011\006\003\125
\004\006\023\002\125\123\061\026\060\024\006\003\125\004\012\023
\015\107\145\157\124\162\165\163\164\040\111\156\143\056\061\071
\060\067\006\003\125\004\013\023\060\050\143\051\040\062\060\060
\067\040\107\145\157\124\162\165\163\164\040\111\156\143\056\040
\055\040\106\157\162\040\141\165\164\150\157\162\151\172\145\144
\040\165\163\145\040\157\156\154\171\061\066\060\064\006\003\125
\004\003\023\055\107\145\157\124\162\165\163\164\040\120\162\151
\155\141\162\171\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\062\060\166\060\020\006\007\052\206\110\316\075\002\001\006\005
\053\201\004\000\042\003\142\000\004\025\261\350\375\003\025\103
\345\254\353\207\067\021\142\357\322\203\066\122\175\105\127\013
\112\215\173\124\073\072\156\137\025\002\300\120\246\317\045\057
\175\312\110\270\307\120\143\034\052\041\010\174\232\066\330\013
\376\321\046\305\130\061\060\050\045\363\135\135\243\270\266\245
\264\222\355\154\054\237\353\335\103\211\242\074\113\110\221\035
\120\354\046\337\326\140\056\275\041\243\102\060\100\060\017\006
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\035
\006\003\125\035\016\004\026\004\024\025\137\065\127\121\125\373

\045\262\255\003\151\374\001\243\372\276\021\125\325\060\012\006
\010\052\206\110\316\075\004\003\003\003\147\000\060\144\002\060
\144\226\131\246\350\011\336\213\272\372\132\210\210\360\037\221
\323\106\250\362\112\114\002\143\373\154\137\070\333\056\101\223
\251\016\346\235\334\061\034\262\240\247\030\034\171\341\307\066
\002\060\072\126\257\232\164\154\366\373\203\340\063\323\010\137
\241\234\302\133\237\106\326\266\313\221\006\143\242\006\347\063
\254\076\250\201\022\320\313\272\320\222\013\266\236\226\252\004
\017\212
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "GeoTrust Primary Certification Authority - G2"
Issuer: CN=GeoTrust Primary Certification Authority - G2,OU=(c) 2007 GeoTrust Inc. - For authorized use only,O=GeoTrust Inc.,C=US
Serial Number:3c:b2:f4:48:0a:00:e2:fe:eb:24:3b:5e:60:3e:c3:6b
Subject: CN=GeoTrust Primary Certification Authority - G2,OU=(c) 2007 GeoTrust Inc. - For authorized use only,O=GeoTrust Inc.,C=US
Not Valid Before: Mon Nov 05 00:00:00 2007
Not Valid After: Mon Jan 18 23:59:59 2038
Fingerprint (MD5): 01:5e:d8:6b:bd:6f:3d:8e:a1:31:f8:12:e0:98:73:6a
Fingerprint (SHA1): 8d:17:84:d5:37:f3:03:7d:ec:70:fe:57:8b:51:9a:99:e6:10:d7:b0
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Primary Certification Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\215\027\204\325\067\363\003\175\354\160\376\127\213\121\232\231
\346\020\327\260
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\001\136\330\153\275\157\075\216\241\061\370\022\340\230\163\152
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162
\165\163\164\040\111\156\143\056\061\071\060\067\006\003\125\004
\013\023\060\050\143\051\040\062\060\060\067\040\107\145\157\124
\162\165\163\164\040\111\156\143\056\040\055\040\106\157\162\040
\141\165\164\150\157\162\151\172\145\144\040\165\163\145\040\157
\156\154\171\061\066\060\064\006\003\125\004\003\023\055\107\145
\157\124\162\165\163\164\040\120\162\151\155\141\162\171\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\062

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\074\262\364\110\012\000\342\376\353\044\073\136\140\076
\303\153
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "VeriSign Universal Root Certification Authority"
Issuer: CN=VeriSign Universal Root Certification Authority,OU=(c) 2008 VeriSign\, Inc. - For authorized use only,OU=VeriSign Trust Network,O=VeriSign\, Inc.,C=US
Serial Number:40:1a:c4:64:21:b3:13:21:03:0e:bb:e4:12:1a:c5:1d
Subject: CN=VeriSign Universal Root Certification Authority,OU=(c) 2008 VeriSign\, Inc. - For authorized use only,OU=VeriSign Trust Network,O=VeriSign\, Inc.,C=US
Not Valid Before: Wed Apr 02 00:00:00 2008
Not Valid After: Tue Dec 01 23:59:59 2037
Fingerprint (MD5): 8e:ad:b5:01:aa:4d:81:e4:8c:1d:d1:e1:14:00:95:19
Fingerprint (SHA1): 36:79:ca:35:66:87:72:30:4d:30:a5:fb:87:3b:0f:a7:7b:b7:0d:54
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "VeriSign Universal Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\275\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
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\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\070\060\066\006\003\125\004\003\023
\057\126\145\162\151\123\151\147\156\040\125\156\151\166\145\162
\163\141\154\040\122\157\157\164\040\103\145\162\164\151\146\151
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CKA_ID UTF8 "0"
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\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
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\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003

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\163\141\154\040\122\157\157\164\040\103\145\162\164\151\146\151
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\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\201
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\060\025\006\003\125\004\012\023\016\126\145\162\151\123\151\147
\156\054\040\111\156\143\056\061\037\060\035\006\003\125\004\013
\023\026\126\145\162\151\123\151\147\156\040\124\162\165\163\164
\040\116\145\164\167\157\162\153\061\072\060\070\006\003\125\004
\013\023\061\050\143\051\040\062\060\060\070\040\126\145\162\151
\123\151\147\156\054\040\111\156\143\056\040\055\040\106\157\162
\040\141\165\164\150\157\162\151\172\145\144\040\165\163\145\040
\157\156\154\171\061\070\060\066\006\003\125\004\003\023\057\126
\145\162\151\123\151\147\156\040\125\156\151\166\145\162\163\141
\154\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
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\015\063\067\061\062\060\061\062\063\065\071\065\071\132\060\201
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\040\116\145\164\167\157\162\153\061\072\060\070\006\003\125\004
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\040\141\165\164\150\157\162\151\172\145\144\040\165\163\145\040
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\054\276\366\365\367\102\342\345\277\207\142\211\137\000\113\337
\305\335\344\165\104\062\101\072\036\161\156\151\313\013\165\106
\010\321\312\322\053\225\320\317\373\271\100\153\144\214\127\115
\374\023\021\171\204\355\136\124\366\064\237\010\001\363\020\045
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\056\202\361\360\357\011\352\104\311\025\152\342\003\156\063\323
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\035\017\001\001\377\004\004\003\002\001\006\060\155\006\010\053
\006\001\005\005\007\001\014\004\141\060\137\241\135\240\133\060
\131\060\127\060\125\026\011\151\155\141\147\145\057\147\151\146
\060\041\060\037\060\007\006\005\053\016\003\002\032\004\024\217
\345\323\032\206\254\215\216\153\303\317\200\152\324\110\030\054
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\147\157\056\166\145\162\151\163\151\147\156\056\143\157\155\057
\166\163\154\157\147\157\056\147\151\146\060\035\006\003\125\035
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\260\003\346\054\147\173\344\224\167\143\314\156\114\371\175\016
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\235\073\143\363\232\371\166\062\225\221\261\167\274\254\232\276
\261\344\061\041\306\201\225\126\132\016\261\302\324\261\246\131
\254\361\143\313\270\114\035\131\220\112\357\220\026\050\037\132
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\343\041\311\044\071\351\375\025\146\106\364\033\021\320\115\163
\243\175\106\371\075\355\250\137\142\324\361\077\370\340\164\127
\053\030\235\201\264\304\050\332\224\227\245\160\353\254\035\276
\007\021\360\325\333\335\345\214\360\325\062\260\203\346\127\342
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\117\152\077\217\300\146\154\143\252\351\331\244\026\364\201\321
\225\024\016\175\315\225\064\331\322\217\160\163\201\173\234\176
\275\230\141\330\105\207\230\220\305\353\206\060\306\065\277\360
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\354\315\202\141\361\070\346\117\227\230\052\132\215
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "VeriSign Universal Root Certification Authority"

Issuer: CN=VeriSign Universal Root Certification Authority,OU=(c) 2008 VeriSign\, Inc. - For authorized use only,OU=VeriSign Trust Network,O=VeriSign\, Inc.,C=US
Serial Number:40:1a:c4:64:21:b3:13:21:03:0e:bb:e4:12:1a:c5:1d
Subject: CN=VeriSign Universal Root Certification Authority,OU=(c) 2008 VeriSign\, Inc. - For authorized use only,OU=VeriSign Trust Network,O=VeriSign\, Inc.,C=US
Not Valid Before: Wed Apr 02 00:00:00 2008
Not Valid After: Tue Dec 01 23:59:59 2037
Fingerprint (MD5): 8e:ad:b5:01:aa:4d:81:e4:8c:1d:d1:e1:14:00:95:19
Fingerprint (SHA1): 36:79:ca:35:66:87:72:30:4d:30:a5:fb:87:3b:0f:a7:7b:b7:0d:54
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "VeriSign Universal Root Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\066\171\312\065\146\207\162\060\115\060\245\373\207\073\017\247
\173\267\015\124
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CKA_CERT_MD5_HASH MULTILINE_OCTAL
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END
CKA_ISSUER MULTILINE_OCTAL
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\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\062\060\060\070\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\070\060\066\006\003\125\004\003\023
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\163\141\154\040\122\157\157\164\040\103\145\162\164\151\146\151
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END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
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CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "thawte Primary Root CA - G3"
Issuer: CN=thawte Primary Root CA - G3,OU=(c) 2008 thawte\, Inc. - For authorized use only,OU=Certification Services Division,O=thawte\, Inc.,C=US

Serial Number:60:01:97:b7:46:a7:ea:b4:b4:9a:d6:4b:2f:f7:90:fb
Subject: CN=thawte Primary Root CA - G3,OU=(c) 2008 thawte\, Inc. - For authorized use only,OU=Certification Services Division,O=thawte\, Inc.,C=US
Not Valid Before: Wed Apr 02 00:00:00 2008
Not Valid After: Tue Dec 01 23:59:59 2037
Fingerprint (MD5): fb:1b:5d:43:8a:94:cd:44:c6:76:f2:43:4b:47:e7:31
Fingerprint (SHA1): f1:8b:53:8d:1b:e9:03:b6:a6:f0:56:43:5b:17:15:89:ca:f3:6b:f2
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "thawte Primary Root CA - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
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\061\025\060\023\006\003\125\004\012\023\014\164\150\141\167\164
\145\054\040\111\156\143\056\061\050\060\046\006\003\125\004\013
\023\037\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\123\145\162\166\151\143\145\163\040\104\151\166\151\163\151\157
\156\061\070\060\066\006\003\125\004\013\023\057\050\143\051\040
\062\060\060\070\040\164\150\141\167\164\145\054\040\111\156\143
\056\040\055\040\106\157\162\040\141\165\164\150\157\162\151\172
\145\144\040\165\163\145\040\157\156\154\171\061\044\060\042\006
\003\125\004\003\023\033\164\150\141\167\164\145\040\120\162\151
\155\141\162\171\040\122\157\157\164\040\103\101\040\055\040\107
\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
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\145\054\040\111\156\143\056\061\050\060\046\006\003\125\004\013
\023\037\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\123\145\162\166\151\143\145\163\040\104\151\166\151\163\151\157
\156\061\070\060\066\006\003\125\004\013\023\057\050\143\051\040
\062\060\060\070\040\164\150\141\167\164\145\054\040\111\156\143
\056\040\055\040\106\157\162\040\141\165\164\150\157\162\151\172
\145\144\040\165\163\145\040\157\156\154\171\061\044\060\042\006
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\060\023\006\003\125\004\012\023\014\164\150\141\167\164\145\054
\040\111\156\143\056\061\050\060\046\006\003\125\004\013\023\037
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\060\070\040\164\150\141\167\164\145\054\040\111\156\143\056\040
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\040\165\163\145\040\157\156\154\171\061\044\060\042\006\003\125
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\036\027\015\060\070\060\064\060\062\060\060\060\060\060\060\132
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\141\162\171\040\122\157\157\164\040\103\101\040\055\040\107\063
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\201\313\076\274\174\256\363\246\047\232\064\243\150\061\161\070
\063\142\344\363\161\146\171\261\251\145\243\245\213\325\217\140
\055\077\102\314\252\153\062\300\043\313\054\101\335\344\337\374
\141\234\342\163\262\042\225\021\103\030\137\304\266\037\127\154
\012\005\130\042\310\066\114\072\174\245\321\317\206\257\210\247
\104\002\023\164\161\163\012\102\131\002\370\033\024\153\102\337
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\164\350\073\177\177\175\037\004\264\046\233\340\264\132\254\107
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\051\101\221\042\074\151\247\273\002\362\266\134\047\003\211\364
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\160\153\272\161\246\252\130\256\364\273\351\154\266\357\207\314
\233\273\377\071\346\126\141\323\012\247\304\134\114\140\173\005
\167\046\172\277\330\007\122\054\142\367\160\143\331\071\274\157
\034\302\171\334\166\051\257\316\305\054\144\004\136\210\066\156
\061\324\100\032\142\064\066\077\065\001\256\254\143\240
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "thawte Primary Root CA - G3"
Issuer: CN=thawte Primary Root CA - G3,OU=(c) 2008 thawte\, Inc. - For authorized use only,OU=Certification Services Division,O=thawte\, Inc.,C=US
Serial Number:60:01:97:b7:46:a7:ea:b4:b4:9a:d6:4b:2f:f7:90:fb
Subject: CN=thawte Primary Root CA - G3,OU=(c) 2008 thawte\, Inc. - For authorized use only,OU=Certification Services Division,O=thawte\, Inc.,C=US
Not Valid Before: Wed Apr 02 00:00:00 2008
Not Valid After: Tue Dec 01 23:59:59 2037
Fingerprint (MD5): fb:1b:5d:43:8a:94:cd:44:c6:76:f2:43:4b:47:e7:31
Fingerprint (SHA1): f1:8b:53:8d:1b:e9:03:b6:a6:f0:56:43:5b:17:15:89:ca:f3:6b:f2
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "thawte Primary Root CA - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\361\213\123\215\033\351\003\266\246\360\126\103\133\027\025\211
\312\363\153\362
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\373\033\135\103\212\224\315\104\306\166\362\103\113\107\347\061
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\256\061\013\060\011\006\003\125\004\006\023\002\125\123

\061\025\060\023\006\003\125\004\012\023\014\164\150\141\167\164
\145\054\040\111\156\143\056\061\050\060\046\006\003\125\004\013
\023\037\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\123\145\162\166\151\143\145\163\040\104\151\166\151\163\151\157
\156\061\070\060\066\006\003\125\004\013\023\057\050\143\051\040
\062\060\060\070\040\164\150\141\167\164\145\054\040\111\156\143
\056\040\055\040\106\157\162\040\141\165\164\150\157\162\151\172
\145\144\040\165\163\145\040\157\156\154\171\061\044\060\042\006
\003\125\004\003\023\033\164\150\141\167\164\145\040\120\162\151
\155\141\162\171\040\122\157\157\164\040\103\101\040\055\040\107
\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\140\001\227\267\106\247\352\264\264\232\326\113\057\367
\220\373
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "GeoTrust Primary Certification Authority - G3"
Issuer: CN=GeoTrust Primary Certification Authority - G3,OU=(c) 2008 GeoTrust Inc. - For authorized use only,O=GeoTrust Inc.,C=US
Serial Number:15:ac:6e:94:19:b2:79:4b:41:f6:27:a9:c3:18:0f:1f
Subject: CN=GeoTrust Primary Certification Authority - G3,OU=(c) 2008 GeoTrust Inc. - For authorized use only,O=GeoTrust Inc.,C=US
Not Valid Before: Wed Apr 02 00:00:00 2008
Not Valid After: Tue Dec 01 23:59:59 2037
Fingerprint (MD5): b5:e8:34:36:c9:10:44:58:48:70:6d:2e:83:d4:b8:05
Fingerprint (SHA1): 03:9e:ed:b8:0b:e7:a0:3c:69:53:89:3b:20:d2:d9:32:3a:4c:2a:fd
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Primary Certification Authority - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162
\165\163\164\040\111\156\143\056\061\071\060\067\006\003\125\004
\013\023\060\050\143\051\040\062\060\060\070\040\107\145\157\124
\162\165\163\164\040\111\156\143\056\040\055\040\106\157\162\040
\141\165\164\150\157\162\151\172\145\144\040\165\163\145\040\157
\156\154\171\061\066\060\064\006\003\125\004\003\023\055\107\145
\157\124\162\165\163\164\040\120\162\151\155\141\162\171\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164

\150\157\162\151\164\171\040\055\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162
\165\163\164\040\111\156\143\056\061\071\060\067\006\003\125\004
\013\023\060\050\143\051\040\062\060\060\070\040\107\145\157\124
\162\165\163\164\040\111\156\143\056\040\055\040\106\157\162\040
\141\165\164\150\157\162\151\172\145\144\040\165\163\145\040\157
\156\154\171\061\066\060\064\006\003\125\004\003\023\055\107\145
\157\124\162\165\163\164\040\120\162\151\155\141\162\171\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\025\254\156\224\031\262\171\113\101\366\047\251\303\030
\017\037
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\376\060\202\002\346\240\003\002\001\002\002\020\025
\254\156\224\031\262\171\113\101\366\047\251\303\030\017\037\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\201
\230\061\013\060\011\006\003\125\004\006\023\002\125\123\061\026
\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165\163
\164\040\111\156\143\056\061\071\060\067\006\003\125\004\013\023
\060\050\143\051\040\062\060\060\070\040\107\145\157\124\162\165
\163\164\040\111\156\143\056\040\055\040\106\157\162\040\141\165
\164\150\157\162\151\172\145\144\040\165\163\145\040\157\156\154
\171\061\066\060\064\006\003\125\004\003\023\055\107\145\157\124
\162\165\163\164\040\120\162\151\155\141\162\171\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171\040\055\040\107\063\060\036\027\015\060\070\060
\064\060\062\060\060\060\060\060\060\132\027\015\063\067\061\062
\060\061\062\063\065\071\065\071\132\060\201\230\061\013\060\011
\006\003\125\004\006\023\002\125\123\061\026\060\024\006\003\125
\004\012\023\015\107\145\157\124\162\165\163\164\040\111\156\143
\056\061\071\060\067\006\003\125\004\013\023\060\050\143\051\040
\062\060\060\070\040\107\145\157\124\162\165\163\164\040\111\156
\143\056\040\055\040\106\157\162\040\141\165\164\150\157\162\151
\172\145\144\040\165\163\145\040\157\156\154\171\061\066\060\064
\006\003\125\004\003\023\055\107\145\157\124\162\165\163\164\040
\120\162\151\155\141\162\171\040\103\145\162\164\151\146\151\143
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040
\055\040\107\063\060\202\001\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012
\002\202\001\001\000\334\342\136\142\130\035\063\127\071\062\063
\372\353\313\207\214\247\324\112\335\006\210\352\144\216\061\230

\245\070\220\036\230\317\056\143\053\360\106\274\104\262\211\241
\300\050\014\111\160\041\225\237\144\300\246\223\022\002\145\046
\206\306\245\211\360\372\327\204\240\160\257\117\032\227\077\006
\104\325\311\353\162\020\175\344\061\050\373\034\141\346\050\007
\104\163\222\042\151\247\003\210\154\235\143\310\122\332\230\047
\347\010\114\160\076\264\311\022\301\305\147\203\135\063\363\003
\021\354\152\320\123\342\321\272\066\140\224\200\273\141\143\154
\133\027\176\337\100\224\036\253\015\302\041\050\160\210\377\326
\046\154\154\140\004\045\116\125\176\175\357\277\224\110\336\267
\035\335\160\215\005\137\210\245\233\362\302\356\352\321\100\101
\155\142\070\035\126\006\305\003\107\121\040\031\374\173\020\013
\016\142\256\166\125\277\137\167\276\076\111\001\123\075\230\045
\003\166\044\132\035\264\333\211\352\171\345\266\263\073\077\272
\114\050\101\177\006\254\152\216\301\320\366\005\035\175\346\102
\206\343\245\325\107\002\003\001\000\001\243\102\060\100\060\017
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060
\035\006\003\125\035\016\004\026\004\024\304\171\312\216\241\116
\003\035\034\334\153\333\061\133\224\076\077\060\177\055\060\015
\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202\001
\001\000\055\305\023\317\126\200\173\172\170\275\237\256\054\231
\347\357\332\337\224\136\011\151\247\347\156\150\214\275\162\276
\107\251\016\227\022\270\112\361\144\323\071\337\045\064\324\301
\315\116\201\360\017\004\304\044\263\064\226\306\246\252\060\337
\150\141\163\327\371\216\205\211\357\016\136\225\050\112\052\047
\217\020\216\056\174\206\304\002\236\332\014\167\145\016\104\015
\222\375\375\263\026\066\372\021\015\035\214\016\007\211\152\051
\126\367\162\364\335\025\234\167\065\146\127\253\023\123\330\216
\301\100\305\327\023\026\132\162\307\267\151\001\304\172\261\203
\001\150\175\215\101\241\224\030\301\045\134\374\360\376\203\002
\207\174\015\015\317\056\010\134\112\100\015\076\354\201\141\346
\044\333\312\340\016\055\007\262\076\126\334\215\365\101\205\007
\110\233\014\013\313\111\077\175\354\267\375\313\215\147\211\032
\253\355\273\036\243\000\010\010\027\052\202\134\061\135\106\212
\055\017\206\233\164\331\105\373\324\100\261\172\252\150\055\206
\262\231\042\341\301\053\307\234\370\363\137\250\202\022\353\031
\021\055
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "GeoTrust Primary Certification Authority - G3"
Issuer: CN=GeoTrust Primary Certification Authority - G3,OU=(c) 2008 GeoTrust Inc. - For authorized use only,O=GeoTrust Inc.,C=US
Serial Number:15:ac:6e:94:19:b2:79:4b:41:f6:27:a9:c3:18:0f:1f
Subject: CN=GeoTrust Primary Certification Authority - G3,OU=(c) 2008 GeoTrust Inc. - For authorized use

only,O=GeoTrust Inc.,C=US
Not Valid Before: Wed Apr 02 00:00:00 2008
Not Valid After: Tue Dec 01 23:59:59 2037
Fingerprint (MD5): b5:e8:34:36:c9:10:44:58:48:70:6d:2e:83:d4:b8:05
Fingerprint (SHA1): 03:9e:ed:b8:0b:e7:a0:3c:69:53:89:3b:20:d2:d9:32:3a:4c:2a:fd
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Primary Certification Authority - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\003\236\355\270\013\347\240\074\151\123\211\073\040\322\331\062
\072\114\052\375
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\265\350\064\066\311\020\104\130\110\160\155\056\203\324\270\005
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162
\165\163\164\040\111\156\143\056\061\071\060\067\006\003\125\004
\013\023\060\050\143\051\040\062\060\060\070\040\107\145\157\124
\162\165\163\164\040\111\156\143\056\040\055\040\106\157\162\040
\141\165\164\150\157\162\151\172\145\144\040\165\163\145\040\157
\156\154\171\061\066\060\064\006\003\125\004\003\023\055\107\145
\157\124\162\165\163\164\040\120\162\151\155\141\162\171\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\025\254\156\224\031\262\171\113\101\366\047\251\303\030
\017\037
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "E-ME SSI (RCA)"
Issuer: CN=E-ME SSI (RCA),OU=Sertifikacijas pakalpojumu dala,C=LV
Serial Number:2e:ef:db:fb:d8:89:3d:8f:49:1c:93:72:fe:45:df:ed
Subject: CN=E-ME SSI (RCA),OU=Sertifikacijas pakalpojumu dala,C=LV
Not Valid Before: Tue May 19 08:45:56 2009
Not Valid After: Wed May 19 08:48:15 2027
Fingerprint (MD5): cb:bd:c3:68:2d:b3:cb:18:59:d3:29:52:e8:c6:64:89
Fingerprint (SHA1): c9:32:1d:e6:b5:a8:26:66:cf:69:71:a1:8a:56:f2:d3:a8:67:56:02
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-ME SSI (RCA)"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\114\126\061
\050\060\046\006\003\125\004\013\023\037\123\145\162\164\151\146
\151\153\141\143\151\152\141\163\040\160\141\153\141\154\160\157
\152\165\155\165\040\144\141\154\141\061\027\060\025\006\003\125
\004\003\023\016\105\055\115\105\040\123\123\111\040\050\122\103
\101\051
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\114\126\061
\050\060\046\006\003\125\004\013\023\037\123\145\162\164\151\146
\151\153\141\143\151\152\141\163\040\160\141\153\141\154\160\157
\152\165\155\165\040\144\141\154\141\061\027\060\025\006\003\125
\004\003\023\016\105\055\115\105\040\123\123\111\040\050\122\103
\101\051
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\056\357\333\373\330\211\075\217\111\034\223\162\376\105
\337\355
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\340\060\202\003\310\240\003\002\001\002\002\020\056
\357\333\373\330\211\075\217\111\034\223\162\376\105\337\355\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\120
\061\013\060\011\006\003\125\004\006\023\002\114\126\061\050\060
\046\006\003\125\004\013\023\037\123\145\162\164\151\146\151\153
\141\143\151\152\141\163\040\160\141\153\141\154\160\157\152\165
\155\165\040\144\141\154\141\061\027\060\025\006\003\125\004\003
\023\016\105\055\115\105\040\123\123\111\040\050\122\103\101\051
\060\036\027\015\060\071\060\065\061\071\060\070\064\065\065\066
\132\027\015\062\067\060\065\061\071\060\070\064\070\061\065\132
\060\120\061\013\060\011\006\003\125\004\006\023\002\114\126\061
\050\060\046\006\003\125\004\013\023\037\123\145\162\164\151\146
\151\153\141\143\151\152\141\163\040\160\141\153\141\154\160\157
\152\165\155\165\040\144\141\154\141\061\027\060\025\006\003\125
\004\003\023\016\105\055\115\105\040\123\123\111\040\050\122\103
\101\051\060\202\002\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202
\002\001\000\304\004\153\000\303\260\340\056\073\350\123\005\005
\010\276\310\204\047\125\326\035\212\022\342\027\042\132\154\377
\263\335\266\231\303\312\301\352\371\330\045\265\337\072\235\235
\077\122\305\351\362\254\277\211\164\212\124\256\116\317\156\362

\136\256\332\275\022\007\231\225\317\144\253\376\231\221\144\131
\214\311\276\104\152\061\233\230\352\272\352\321\041\016\050\013
\071\233\343\326\212\246\367\002\272\077\075\331\131\364\171\231
\336\323\044\233\213\160\033\052\204\326\345\011\017\046\046\044
\130\217\045\136\363\305\235\164\211\245\066\305\345\122\262\353
\350\206\223\107\156\247\051\207\244\176\334\264\243\313\062\126
\367\105\200\332\134\307\057\240\247\327\357\365\374\265\250\315
\204\225\142\370\251\053\043\073\155\323\267\222\310\352\301\274
\024\115\350\153\234\026\172\323\354\007\373\007\045\020\117\024
\207\173\222\066\316\126\202\145\113\023\046\006\330\243\243\246
\337\302\172\373\173\065\005\242\023\075\076\166\274\034\127\203
\003\121\307\064\336\132\365\074\275\066\045\234\026\017\115\316
\350\015\032\313\135\103\242\024\157\272\174\140\324\002\205\166
\305\153\052\270\105\261\134\167\107\021\255\240\045\251\146\221
\214\121\027\155\141\125\012\031\077\233\002\377\304\365\326\322
\263\351\045\123\341\004\075\217\042\320\242\145\345\256\247\264
\340\035\221\152\302\206\222\367\072\135\023\247\172\114\102\337
\132\263\112\210\104\054\357\107\272\251\257\326\317\142\163\212
\006\042\026\054\302\354\037\006\250\323\107\120\131\062\022\345
\271\235\142\065\236\312\136\012\264\235\043\210\302\323\117\054
\054\311\223\350\176\270\011\354\246\331\335\143\341\311\250\152
\150\334\204\121\254\132\022\347\073\246\265\007\012\261\252\116
\263\264\242\127\337\067\154\026\116\253\231\062\172\360\234\043
\045\213\312\232\250\214\340\070\041\264\316\367\154\141\310\342
\014\022\131\006\201\046\066\132\017\065\163\324\026\105\375\336
\225\336\326\113\134\237\163\331\276\031\275\347\277\344\125\152
\310\153\104\367\307\270\063\210\171\031\015\006\144\350\257\013
\241\165\014\122\145\272\012\043\225\161\367\143\374\176\345\214
\217\314\321\002\003\001\000\001\243\201\265\060\201\262\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\030
\006\010\053\006\001\005\005\007\001\003\004\014\060\012\060\010
\006\006\004\000\216\106\001\001\060\017\006\003\125\035\023\001
\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016
\004\026\004\024\073\046\003\272\317\343\131\106\102\120\255\024
\234\277\003\073\357\326\076\061\060\020\006\011\053\006\001\004
\001\202\067\025\001\004\003\002\001\000\060\104\006\003\125\035
\040\004\075\060\073\060\071\006\013\053\006\001\004\001\201\372
\075\001\001\001\060\052\060\050\006\010\053\006\001\005\005\007
\002\001\026\034\150\164\164\160\072\057\057\167\167\167\056\145
\155\145\056\154\166\057\162\145\160\157\163\151\164\157\162\171
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003
\202\002\001\000\205\346\246\224\344\331\106\137\235\277\223\273
\371\153\166\144\050\256\277\074\105\052\212\223\171\154\323\113
\210\206\040\153\042\046\070\075\034\023\252\353\141\227\154\056
\076\127\234\154\103\242\336\155\100\304\061\362\155\272\106\026
\263\055\306\273\246\334\345\057\261\330\301\325\221\036\021\177
\373\137\241\334\035\141\370\155\233\141\360\342\077\053\161\325
\015\313\336\337\145\077\240\157\225\233\172\313\333\065\067\051

\135\136\235\271\124\261\254\140\022\345\143\331\315\257\122\033
\005\226\023\174\332\044\165\001\255\324\236\245\313\301\022\105
\117\127\257\043\277\051\274\352\216\255\170\370\207\043\350\110
\313\100\250\276\135\063\326\354\306\006\103\302\147\052\350\343
\205\056\140\236\104\057\053\117\061\261\007\235\225\041\325\052
\222\257\200\221\323\307\051\275\315\361\025\014\237\001\356\370
\055\073\244\007\160\111\171\044\355\274\241\323\226\121\202\237
\302\310\274\336\043\232\307\120\053\232\266\170\122\252\316\225
\366\140\073\242\231\371\046\146\364\107\054\101\045\274\101\372
\326\213\177\275\137\202\174\323\105\205\264\114\330\354\263\027
\357\104\072\365\050\145\357\365\236\161\314\041\336\350\326\121
\034\020\373\100\374\111\345\134\204\027\257\252\031\136\242\355
\116\036\242\373\312\107\034\034\144\076\024\221\242\071\031\064
\210\177\221\313\073\235\031\160\352\050\373\374\120\017\314\275
\075\136\002\003\153\171\065\104\101\166\356\266\055\164\204\341
\202\161\323\045\260\323\303\231\104\253\077\342\014\245\356\275
\246\374\244\021\000\356\234\275\067\321\326\142\304\060\024\055
\020\012\227\212\210\365\045\074\226\276\106\100\032\212\300\205
\166\304\240\111\340\111\245\347\031\265\011\363\314\115\355\026
\136\232\324\323\310\151\320\330\212\067\205\153\116\344\252\007
\222\134\324\161\161\201\110\323\170\365\126\140\376\314\002\324
\000\223\037\114\222\100\227\276\162\123\171\056\046\122\276\246
\243\164\261\224\331\024\143\072\156\133\321\074\222\047\122\220
\062\132\222\322\017\116\133\013\006\072\142\345\326\047\014\001
\366\045\002\270\213\020\051\102\251\367\151\312\334\353\012\222
\113\050\061\206
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "E-ME SSI (RCA)"
Issuer: CN=E-ME SSI (RCA),OU=Sertifikacijas pakalpojumu dala,C=LV
Serial Number:2e:ef:db:fb:d8:89:3d:8f:49:1c:93:72:fe:45:df:ed
Subject: CN=E-ME SSI (RCA),OU=Sertifikacijas pakalpojumu dala,C=LV
Not Valid Before: Tue May 19 08:45:56 2009
Not Valid After: Wed May 19 08:48:15 2027
Fingerprint (MD5): cb:bd:c3:68:2d:b3:cb:18:59:d3:29:52:e8:c6:64:89
Fingerprint (SHA1): c9:32:1d:e6:b5:a8:26:66:cf:69:71:a1:8a:56:f2:d3:a8:67:56:02
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-ME SSI (RCA)"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\311\062\035\346\265\250\046\146\317\151\161\241\212\126\362\323
\250\147\126\002

```
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\313\275\303\150\055\263\313\030\131\323\051\122\350\306\144\211
END
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\114\126\061
\050\060\046\006\003\125\004\013\023\037\123\145\162\164\151\146
\151\153\141\143\151\152\141\163\040\160\141\153\141\154\160\157
\152\165\155\165\040\144\141\154\141\061\027\060\025\006\003\125
\004\003\023\016\105\055\115\105\040\123\123\111\040\050\122\103
\101\051
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\056\357\333\373\330\211\075\217\111\034\223\162\376\105
\337\355
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "ACEDICOM Root"
# Issuer: C=ES,O=EDICOM,OU=PKI,CN=ACEDICOM Root
# Serial Number:61:8d:c7:86:3b:01:82:05
# Subject: C=ES,O=EDICOM,OU=PKI,CN=ACEDICOM Root
# Not Valid Before: Fri Apr 18 16:24:22 2008
# Not Valid After: Thu Apr 13 16:24:22 2028
# Fingerprint (MD5): 42:81:a0:e2:1c:e3:55:10:de:55:89:42:65:96:22:e6
# Fingerprint (SHA1): e0:b4:32:2e:b2:f6:a5:68:b6:54:53:84:48:18:4a:50:36:87:43:84
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ACEDICOM Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\104\061\026\060\024\006\003\125\004\003\014\015\101\103\105
\104\111\103\117\115\040\122\157\157\164\061\014\060\012\006\003
\125\004\013\014\003\120\113\111\061\017\060\015\006\003\125\004
\012\014\006\105\104\111\103\117\115\061\013\060\011\006\003\125
\004\006\023\002\105\123
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\104\061\026\060\024\006\003\125\004\003\014\015\101\103\105
\104\111\103\117\115\040\122\157\157\164\061\014\060\012\006\003
\125\004\013\014\003\120\113\111\061\017\060\015\006\003\125\004
```

\012\014\006\105\104\111\103\117\115\061\013\060\011\006\003\125
\004\006\023\002\105\123
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\141\215\307\206\073\001\202\005
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\265\060\202\003\235\240\003\002\001\002\002\010\141
\215\307\206\073\001\202\005\060\015\006\011\052\206\110\206\367
\015\001\001\005\005\000\060\104\061\026\060\024\006\003\125\004
\003\014\015\101\103\105\104\111\103\117\115\040\122\157\157\164
\061\014\060\012\006\003\125\004\013\014\003\120\113\111\061\017
\060\015\006\003\125\004\012\014\006\105\104\111\103\117\115\061
\013\060\011\006\003\125\004\006\023\002\105\123\060\036\027\015
\060\070\060\064\061\070\061\066\062\064\062\062\132\027\015\062
\070\060\064\061\063\061\066\062\064\062\062\132\060\104\061\026
\060\024\006\003\125\004\003\014\015\101\103\105\104\111\103\117
\115\040\122\157\157\164\061\014\060\012\006\003\125\004\013\014
\003\120\113\111\061\017\060\015\006\003\125\004\012\014\006\105
\104\111\103\117\115\061\013\060\011\006\003\125\004\006\023\002
\105\123\060\202\002\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202
\002\001\000\377\222\225\341\150\006\166\264\054\310\130\110\312
\375\200\124\051\125\143\044\377\220\145\233\020\165\173\303\152
\333\142\002\001\362\030\206\265\174\132\070\261\344\130\271\373
\323\330\055\237\275\062\067\277\054\025\155\276\265\364\041\322
\023\221\331\007\255\001\005\326\363\275\167\316\137\102\201\012
\371\152\343\203\000\250\053\056\125\023\143\201\312\107\034\173
\134\026\127\172\033\203\140\004\072\076\145\303\315\001\336\336
\244\326\014\272\216\336\331\004\356\027\126\042\233\217\143\375
\115\026\013\267\173\167\214\371\045\265\321\155\231\022\056\117
\032\270\346\352\004\222\256\075\021\271\121\102\075\207\260\061
\205\257\171\132\234\376\347\116\136\222\117\103\374\253\072\255
\245\022\046\146\271\342\014\327\230\316\324\130\245\225\100\012
\267\104\235\023\164\053\302\245\353\042\025\230\020\330\213\305
\004\237\035\217\140\345\006\033\233\317\271\171\240\075\242\043
\077\102\077\153\372\034\003\173\060\215\316\154\300\277\346\033
\137\277\147\270\204\031\325\025\357\173\313\220\066\061\142\311
\274\002\253\106\137\233\376\032\150\224\064\075\220\216\255\366
\344\035\011\177\112\210\070\077\276\147\375\064\226\365\035\274
\060\164\313\070\356\325\154\253\324\374\364\000\267\000\133\205
\062\026\166\063\351\330\243\231\235\005\000\252\026\346\363\201
\175\157\175\252\206\155\255\025\164\323\304\242\161\252\364\024
\175\347\062\270\037\274\325\361\116\275\157\027\002\071\327\016
\225\102\072\307\000\076\351\046\143\021\352\013\321\112\377\030
\235\262\327\173\057\072\331\226\373\350\036\222\256\023\125\310
\331\047\366\334\110\033\260\044\301\205\343\167\235\232\244\363
\014\021\035\015\310\264\024\356\265\202\127\011\277\040\130\177

\057\042\043\330\160\313\171\154\311\113\362\251\052\310\374\207
\053\327\032\120\370\047\350\057\103\343\072\275\330\127\161\375
\316\246\122\133\371\335\115\355\345\366\157\211\355\273\223\234
\166\041\165\360\222\114\051\367\057\234\001\056\376\120\106\236
\144\014\024\263\007\133\305\302\163\154\361\007\134\105\044\024
\065\256\203\361\152\115\211\172\372\263\330\055\146\360\066\207
\365\053\123\002\003\001\000\001\243\201\252\060\201\247\060\017
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060
\037\006\003\125\035\043\004\030\060\026\200\024\246\263\341\053
\053\111\266\327\163\241\252\224\365\001\347\163\145\114\254\120
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\206
\060\035\006\003\125\035\016\004\026\004\024\246\263\341\053\053
\111\266\327\163\241\252\224\365\001\347\163\145\114\254\120\060
\104\006\003\125\035\040\004\075\060\073\060\071\006\004\125\035
\040\000\060\061\060\057\006\010\053\006\001\005\005\007\002\001
\026\043\150\164\164\160\072\057\057\141\143\145\144\151\143\157
\155\056\145\144\151\143\157\155\147\162\157\165\160\056\143\157
\155\057\144\157\143\060\015\006\011\052\206\110\206\367\015\001
\001\005\005\000\003\202\002\001\000\316\054\013\122\121\142\046
\175\014\047\203\217\305\366\332\240\150\173\117\222\136\352\244
\163\062\021\123\104\262\104\313\235\354\017\171\102\263\020\246
\307\015\235\313\266\372\077\072\174\352\277\210\123\033\074\367
\202\372\005\065\063\341\065\250\127\300\347\375\215\117\077\223
\062\117\170\146\003\167\007\130\351\225\310\176\076\320\171\000
\214\362\033\121\063\233\274\224\351\072\173\156\122\055\062\236
\043\244\105\373\266\056\023\260\213\030\261\335\316\325\035\247
\102\177\125\276\373\133\273\107\324\374\044\315\004\256\226\005
\025\326\254\316\060\363\312\013\305\272\342\042\340\246\255\042
\344\002\356\164\021\177\114\377\170\035\065\332\346\002\064\353
\030\022\141\167\006\011\026\143\352\030\255\242\207\037\362\307
\200\011\011\165\116\020\250\217\075\206\270\165\021\300\044\142
\212\226\173\112\105\351\354\131\305\276\153\203\346\341\350\254
\265\060\036\376\005\007\200\371\341\043\015\120\217\005\230\377
\054\137\350\073\266\255\317\201\265\041\207\312\010\052\043\047
\060\040\053\317\355\224\133\254\262\172\322\307\050\241\212\013
\233\115\112\054\155\205\077\011\162\074\147\342\331\334\007\272
\353\145\173\132\001\143\326\220\133\117\027\146\075\177\013\031
\243\223\143\020\122\052\237\024\026\130\342\334\245\364\241\026
\213\016\221\213\201\312\233\131\372\330\153\221\007\145\125\137
\122\037\257\072\373\220\335\151\245\133\234\155\016\054\266\372
\316\254\245\174\062\112\147\100\334\060\064\043\335\327\004\043
\146\360\374\125\200\247\373\146\031\202\065\147\142\160\071\136
\157\307\352\220\100\104\010\036\270\262\326\333\356\131\247\015
\030\171\064\274\124\030\136\123\312\064\121\355\105\012\346\216
\307\202\066\076\247\070\143\251\060\054\027\020\140\222\237\125
\207\022\131\020\302\017\147\151\021\314\116\036\176\112\232\255
\257\100\250\165\254\126\220\164\270\240\234\245\171\157\334\351
\032\310\151\005\351\272\372\003\263\174\344\340\116\302\316\235

\350\266\106\015\156\176\127\072\147\224\302\313\037\234\167\112
\147\116\151\206\103\223\070\373\266\333\117\203\221\324\140\176
\113\076\053\070\007\125\230\136\244
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "ACEDICOM Root"
Issuer: C=ES,O=EDICOM,OU=PKI,CN=ACEDICOM Root
Serial Number:61:8d:c7:86:3b:01:82:05
Subject: C=ES,O=EDICOM,OU=PKI,CN=ACEDICOM Root
Not Valid Before: Fri Apr 18 16:24:22 2008
Not Valid After: Thu Apr 13 16:24:22 2028
Fingerprint (MD5): 42:81:a0:e2:1c:e3:55:10:de:55:89:42:65:96:22:e6
Fingerprint (SHA1): e0:b4:32:2e:b2:f6:a5:68:b6:54:53:84:48:18:4a:50:36:87:43:84
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ACEDICOM Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\340\264\062\056\262\366\245\150\266\124\123\204\110\030\112\120
\066\207\103\204
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\102\201\240\342\034\343\125\020\336\125\211\102\145\226\042\346
END
CKA_ISSUER MULTILINE_OCTAL
\060\104\061\026\060\024\006\003\125\004\003\014\015\101\103\105
\104\111\103\117\115\040\122\157\157\164\061\014\060\012\006\003
\125\004\013\014\003\120\113\111\061\017\060\015\006\003\125\004
\012\014\006\105\104\111\103\117\115\061\013\060\011\006\003\125
\004\006\023\002\105\123
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\141\215\307\206\073\001\202\005
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Autoridad Certificadora Raiz de la Secretaria de Economia"
Issuer: 1.2.840.113549.1.9.1=acrse@economia.gob.mx,O=Secretaria de Economia,OU=Direccion General de Normatividad Mercantil,CN=Autoridad Certificadora Raiz de la Secretaria de Economia,STREET=Insurgentes Sur

1940,2.5.4.17=01030,C=MX,ST=Distrito Federal,L=Alvaro Obregon
Serial Number: 1 (0x1)
Subject: 1.2.840.113549.1.9.1=acrse@economia.gob.mx,O=Secretaria de Economia,OU=Direccion General de Normatividad Mercantil,CN=Autoridad Certificadora Raiz de la Secretaria de Economia,STREET=Insurgentes Sur 1940,2.5.4.17=01030,C=MX,ST=Distrito Federal,L=Alvaro Obregon
Not Valid Before: Sun May 08 00:00:00 2005
Not Valid After: Thu May 08 00:00:00 2025
Fingerprint (MD5): 07:61:92:04:7e:a6:b9:cd:5e:6b:00:7a:e3:bf:1d:04
Fingerprint (SHA1): 34:d4:99:42:6f:9f:c2:bb:27:b0:75:ba:b6:82:aa:e5:ef:fc:ba:74
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad Certificadora Raiz de la Secretaria de Economia"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\202\001\061\061\027\060\025\006\003\125\004\007\023\016\101
\154\166\141\162\157\040\117\142\162\145\147\157\156\061\031\060
\027\006\003\125\004\010\023\020\104\151\163\164\162\151\164\157
\040\106\145\144\145\162\141\154\061\013\060\011\006\003\125\004
\006\023\002\115\130\061\016\060\014\006\003\125\004\021\023\005
\060\061\060\063\060\061\035\060\033\006\003\125\004\011\023\024
\111\156\163\165\162\147\145\156\164\145\163\040\123\165\162\040
\061\071\064\060\061\102\060\100\006\003\125\004\003\023\071\101
\165\164\157\162\151\144\141\144\040\103\145\162\164\151\146\151
\143\141\144\157\162\141\040\122\141\151\172\040\144\145\040\154
\141\040\123\145\143\162\145\164\141\162\151\141\040\144\145\040
\105\143\157\156\157\155\151\141\061\064\060\062\006\003\125\004
\013\023\053\104\151\162\145\143\143\151\157\156\040\107\145\156
\145\162\141\154\040\144\145\040\116\157\162\155\141\164\151\166
\151\144\141\144\040\115\145\162\143\141\156\164\151\154\061\037
\060\035\006\003\125\004\012\023\026\123\145\143\162\145\164\141
\162\151\141\040\144\145\040\105\143\157\156\157\155\151\141\061
\044\060\042\006\011\052\206\110\206\367\015\001\011\001\026\025
\141\143\162\163\145\100\145\143\157\156\157\155\151\141\056\147
\157\142\056\155\170
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\202\001\061\061\027\060\025\006\003\125\004\007\023\016\101
\154\166\141\162\157\040\117\142\162\145\147\157\156\061\031\060
\027\006\003\125\004\010\023\020\104\151\163\164\162\151\164\157
\040\106\145\144\145\162\141\154\061\013\060\011\006\003\125\004
\006\023\002\115\130\061\016\060\014\006\003\125\004\021\023\005
\060\061\060\063\060\061\035\060\033\006\003\125\004\011\023\024
\111\156\163\165\162\147\145\156\164\145\163\040\123\165\162\040
\061\071\064\060\061\102\060\100\006\003\125\004\003\023\071\101
\165\164\157\162\151\144\141\144\040\103\145\162\164\151\146\151

\143\141\144\157\162\141\040\122\141\151\172\040\144\145\040\154
\141\040\123\145\143\162\145\164\141\162\151\141\040\144\145\040
\105\143\157\156\157\155\151\141\061\064\060\062\006\003\125\004
\013\023\053\104\151\162\145\143\143\151\157\156\040\107\145\156
\145\162\141\154\040\144\145\040\116\157\162\155\141\164\151\166
\151\144\141\144\040\115\145\162\143\141\156\164\151\154\061\037
\060\035\006\003\125\004\012\023\026\123\145\143\162\145\164\141
\162\151\141\040\144\145\040\105\143\157\156\157\155\151\141\061
\044\060\042\006\011\052\206\110\206\367\015\001\011\001\026\025
\141\143\162\163\145\100\145\143\157\156\157\155\151\141\056\147
\157\142\056\155\170
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\224\060\202\004\174\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\202\001\061\061\027\060\025\006\003\125\004\007\023\016\101\154
\166\141\162\157\040\117\142\162\145\147\157\156\061\031\060\027
\006\003\125\004\010\023\020\104\151\163\164\162\151\164\157\040
\106\145\144\145\162\141\154\061\013\060\011\006\003\125\004\006
\023\002\115\130\061\016\060\014\006\003\125\004\021\023\005\060
\061\060\063\060\061\035\060\033\006\003\125\004\011\023\024\111
\156\163\165\162\147\145\156\164\145\163\040\123\165\162\040\061
\071\064\060\061\102\060\100\006\003\125\004\003\023\071\101\165
\164\157\162\151\144\141\144\040\103\145\162\164\151\146\151\143
\141\144\157\162\141\040\122\141\151\172\040\144\145\040\154\141
\040\123\145\143\162\145\164\141\162\151\141\040\144\145\040\105
\143\157\156\157\155\151\141\061\064\060\062\006\003\125\004\013
\023\053\104\151\162\145\143\143\151\157\156\040\107\145\156\145
\162\141\154\040\144\145\040\116\157\162\155\141\164\151\166\151
\144\141\144\040\115\145\162\143\141\156\164\151\154\061\037\060
\035\006\003\125\004\012\023\026\123\145\143\162\145\164\141\162
\151\141\040\144\145\040\105\143\157\156\157\155\151\141\061\044
\060\042\006\011\052\206\110\206\367\015\001\011\001\026\025\141
\143\162\163\145\100\145\143\157\156\157\155\151\141\056\147\157
\142\056\155\170\060\036\027\015\060\065\060\065\060\070\060\060
\060\060\060\060\132\027\015\062\065\060\065\060\070\060\060\060
\060\060\060\132\060\202\001\061\061\027\060\025\006\003\125\004
\007\023\016\101\154\166\141\162\157\040\117\142\162\145\147\157
\156\061\031\060\027\006\003\125\004\010\023\020\104\151\163\164
\162\151\164\157\040\106\145\144\145\162\141\154\061\013\060\011
\006\003\125\004\006\023\002\115\130\061\016\060\014\006\003\125
\004\021\023\005\060\061\060\063\060\061\035\060\033\006\003\125
\004\011\023\024\111\156\163\165\162\147\145\156\164\145\163\040
\123\165\162\040\061\071\064\060\061\102\060\100\006\003\125\004
\003\023\071\101\165\164\157\162\151\144\141\144\040\103\145\162

\164\151\146\151\143\141\144\157\162\141\040\122\141\151\172\040
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\040\144\145\040\105\143\157\156\157\155\151\141\061\064\060\062
\006\003\125\004\013\023\053\104\151\162\145\143\143\151\157\156
\040\107\145\156\145\162\141\154\040\144\145\040\116\157\162\155
\141\164\151\166\151\144\141\144\040\115\145\162\143\141\156\164
\151\154\061\037\060\035\006\003\125\004\012\023\026\123\145\143
\162\145\164\141\162\151\141\040\144\145\040\105\143\157\156\157
\155\151\141\061\044\060\042\006\011\052\206\110\206\367\015\001
\011\001\026\025\141\143\162\163\145\100\145\143\157\156\157\155
\151\141\056\147\157\142\056\155\170\060\202\001\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017
\000\060\202\001\012\002\202\001\001\000\301\144\240\364\347\122
\160\262\352\223\023\364\065\072\037\352\072\034\305\033\213\130
\341\226\326\002\101\136\216\205\100\377\101\146\100\123\374\230
\265\321\062\062\227\147\100\200\235\356\040\077\016\124\373\102
\007\373\167\032\231\330\206\364\034\052\210\045\363\351\104\243
\116\376\007\276\261\310\357\074\215\207\340\036\312\111\020\073
\050\357\044\121\241\374\210\027\112\347\034\310\124\147\143\350
\152\061\346\103\154\366\100\021\206\304\126\356\275\311\035\246
\106\074\036\106\302\202\215\056\251\350\356\166\012\103\340\162
\115\214\364\305\006\372\054\001\000\063\140\316\070\160\064\153
\027\032\353\172\144\141\247\223\244\145\152\327\043\307\166\172
\224\121\013\354\236\250\317\073\242\120\062\034\102\275\143\341
\207\313\271\205\110\016\300\325\130\266\366\316\113\362\007\317
\343\004\325\037\302\326\243\156\243\273\266\267\156\304\361\242
\037\026\274\266\055\260\357\364\132\233\051\215\274\341\374\007
\133\036\011\063\202\170\314\100\155\161\263\143\023\057\323\114
\066\254\071\117\306\301\260\266\365\205\002\003\001\000\001\243
\201\262\060\201\257\060\063\006\003\125\035\037\004\054\060\052
\060\050\240\046\240\044\206\042\150\164\164\160\072\057\057\141
\143\056\145\143\157\156\157\155\151\141\056\147\157\142\056\155
\170\057\154\141\163\164\056\143\162\154\060\107\006\003\125\035
\040\004\100\060\076\060\074\006\010\140\203\144\145\012\202\074
\001\060\060\060\056\006\010\053\006\001\005\005\007\002\001\026
\042\150\164\164\160\072\057\057\141\143\056\145\143\157\156\157
\155\151\141\056\147\157\142\056\155\170\057\143\160\163\056\150
\164\155\154\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\013\006\003\125\035\017\004\004\003\002\001
\006\060\021\006\011\140\206\110\001\206\370\102\001\001\004\004
\003\002\000\007\060\015\006\011\052\206\110\206\367\015\001\001
\005\005\000\003\202\001\001\000\114\052\170\123\004\226\163\140
\253\065\254\300\304\343\347\310\160\245\051\057\207\030\345\250
\202\336\007\325\010\364\317\236\075\236\374\112\054\026\174\237
\242\235\145\020\314\301\033\233\152\147\332\262\263\035\377\315
\144\172\070\143\255\110\375\363\162\341\372\237\273\127\335\277
\314\302\124\330\225\074\146\327\153\006\272\257\251\340\155\010
\357\244\266\220\075\014\156\040\027\247\226\247\174\150\112\234

\230\304\007\157\301\002\142\221\070\233\235\343\212\171\123\235
\237\044\166\045\366\255\050\126\006\252\357\007\254\272\366\154
\344\045\061\175\210\200\072\170\106\370\171\341\070\340\023\347
\141\051\107\363\313\024\000\323\332\342\335\355\163\337\113\362
\143\344\046\330\165\320\115\103\024\220\026\224\107\001\377\241
\131\113\344\166\233\131\003\336\326\027\366\173\327\134\370\351
\343\157\310\116\340\107\046\261\342\234\174\112\061\345\144\021
\340\260\137\332\221\066\110\037\372\011\212\145\150\365\016\302
\237\357\270\152\317\167\376\022\355\066\332\021\066\255\031\152
\302\324\216\122\327\150\357\061
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Autoridad Certificadora Raiz de la Secretaria de Economia"
Issuer: 1.2.840.113549.1.9.1=acrse@economia.gob.mx,O=Secretaria de Economia,OU=Direccion General de Normatividad Mercantil,CN=Autoridad Certificadora Raiz de la Secretaria de Economia,STREET=Insurgentes Sur 1940,2.5.4.17=01030,C=MX,ST=Distrito Federal,L=Alvaro Obregon
Serial Number: 1 (0x1)
Subject: 1.2.840.113549.1.9.1=acrse@economia.gob.mx,O=Secretaria de Economia,OU=Direccion General de Normatividad Mercantil,CN=Autoridad Certificadora Raiz de la Secretaria de Economia,STREET=Insurgentes Sur 1940,2.5.4.17=01030,C=MX,ST=Distrito Federal,L=Alvaro Obregon
Not Valid Before: Sun May 08 00:00:00 2005
Not Valid After: Thu May 08 00:00:00 2025
Fingerprint (MD5): 07:61:92:04:7e:a6:b9:cd:5e:6b:00:7a:e3:bf:1d:04
Fingerprint (SHA1): 34:d4:99:42:6f:9f:c2:bb:27:b0:75:ba:b6:82:aa:e5:ef:fc:ba:74
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad Certificadora Raiz de la Secretaria de Economia"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\064\324\231\102\157\237\302\273\047\260\165\272\266\202\252\345
\357\374\272\164
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\007\141\222\004\176\246\271\315\136\153\000\172\343\277\035\004
END
CKA_ISSUER MULTILINE_OCTAL
\060\202\001\061\061\027\060\025\006\003\125\004\007\023\016\101
\154\166\141\162\157\040\117\142\162\145\147\157\156\061\031\060
\027\006\003\125\004\010\023\020\104\151\163\164\162\151\164\157
\040\106\145\144\145\162\141\154\061\013\060\011\006\003\125\004
\006\023\002\115\130\061\016\060\014\006\003\125\004\021\023\005
\060\061\060\063\060\061\035\060\033\006\003\125\004\011\023\024
\111\156\163\165\162\147\145\156\164\145\163\040\123\165\162\040

\061\071\064\060\061\102\060\100\006\003\125\004\003\023\071\101
\165\164\157\162\151\144\141\144\040\103\145\162\164\151\146\151
\143\141\144\157\162\141\040\122\141\151\172\040\144\145\040\154
\141\040\123\145\143\162\145\164\141\162\151\141\040\144\145\040
\105\143\157\156\157\155\151\141\061\064\060\062\006\003\125\004
\013\023\053\104\151\162\145\143\143\151\157\156\040\107\145\156
\145\162\141\154\040\144\145\040\116\157\162\155\141\164\151\166
\151\144\141\144\040\115\145\162\143\141\156\164\151\154\061\037
\060\035\006\003\125\004\012\023\026\123\145\143\162\145\164\141
\162\151\141\040\144\145\040\105\143\157\156\157\155\151\141\061
\044\060\042\006\011\052\206\110\206\367\015\001\011\001\026\025
\141\143\162\163\145\100\145\143\157\156\157\155\151\141\056\147
\157\142\056\155\170
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Correo Uruguayo - Root CA"
Issuer: CN=Correo Uruguayo - Root CA,OU=SERVICIOS ELECTRONICOS,O=ADMINISTRACION
NACIONAL DE CORREOS,C=UY
Serial Number:ca:22:79:08:23:2a:f0:f5:82:b8:85:d3:63:dd:f1
Subject: CN=Correo Uruguayo - Root CA,OU=SERVICIOS ELECTRONICOS,O=ADMINISTRACION
NACIONAL DE CORREOS,C=UY
Not Valid Before: Mon Jul 14 16:52:15 2008
Not Valid After: Tue Dec 31 02:59:59 2030
Fingerprint (MD5): 24:6d:ab:d2:f2:ea:4a:66:ae:5b:bc:ae:50:ad:6e:56
Fingerprint (SHA1): f9:dd:19:26:6b:20:43:f1:fe:4b:3d:cb:01:90:af:f1:1f:31:a6:9d
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Correo Uruguayo - Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\125\131\061
\053\060\051\006\003\125\004\012\014\042\101\104\115\111\116\111
\123\124\122\101\103\111\117\116\040\116\101\103\111\117\116\101
\114\040\104\105\040\103\117\122\122\105\117\123\061\037\060\035
\006\003\125\004\013\014\026\123\105\122\126\111\103\111\117\123
\040\105\114\105\103\124\122\117\116\111\103\117\123\061\042\060
\040\006\003\125\004\003\014\031\103\157\162\162\145\157\040\125
\162\165\147\165\141\171\157\040\055\040\122\157\157\164\040\103

\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
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\053\060\051\006\003\125\004\012\014\042\101\104\115\111\116\111
\123\124\122\101\103\111\117\116\040\116\101\103\111\117\116\101
\114\040\104\105\040\103\117\122\122\105\117\123\061\037\060\035
\006\003\125\004\013\014\026\123\105\122\126\111\103\111\117\123
\040\105\114\105\103\124\122\117\116\111\103\117\123\061\042\060
\040\006\003\125\004\003\014\031\103\157\162\162\145\157\040\125
\162\165\147\165\141\171\157\040\055\040\122\157\157\164\040\103
\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\000\312\042\171\010\043\052\360\365\202\270\205\323\143
\335\361
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\032\060\202\004\002\240\003\002\001\002\002\020\000
\312\042\171\010\043\052\360\365\202\270\205\323\143\335\361\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\177
\061\013\060\011\006\003\125\004\006\023\002\125\131\061\053\060
\051\006\003\125\004\012\014\042\101\104\115\111\116\111\123\124
\122\101\103\111\117\116\040\116\101\103\111\117\116\101\114\040
\104\105\040\103\117\122\122\105\117\123\061\037\060\035\006\003
\125\004\013\014\026\123\105\122\126\111\103\111\117\123\040\105
\114\105\103\124\122\117\116\111\103\117\123\061\042\060\040\006
\003\125\004\003\014\031\103\157\162\162\145\157\040\125\162\165
\147\165\141\171\157\040\055\040\122\157\157\164\040\103\101\060
\036\027\015\060\070\060\067\061\064\061\066\065\062\061\065\132
\027\015\063\060\061\062\063\061\060\062\065\071\065\071\132\060
\177\061\013\060\011\006\003\125\004\006\023\002\125\131\061\053
\060\051\006\003\125\004\012\014\042\101\104\115\111\116\111\123
\124\122\101\103\111\117\116\040\116\101\103\111\117\116\101\114
\040\104\105\040\103\117\122\122\105\117\123\061\037\060\035\006
\003\125\004\013\014\026\123\105\122\126\111\103\111\117\123\040
\105\114\105\103\124\122\117\116\111\103\117\123\061\042\060\040
\006\003\125\004\003\014\031\103\157\162\162\145\157\040\125\162
\165\147\165\141\171\157\040\055\040\122\157\157\164\040\103\101
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001
\000\261\075\322\247\045\160\227\203\170\016\327\062\311\146\016
\170\043\344\052\033\354\303\357\123\205\203\273\312\317\176\352
\123\231\155\047\125\310\321\070\041\100\156\111\115\303\075\366
\011\053\006\031\103\251\230\311\001\116\364\252\200\060\007\125
\363\365\267\175\231\267\163\205\325\034\145\126\154\015\062\233
\010\016\064\141\052\100\011\204\067\303\146\355\015\114\234\014

\170\100\072\354\355\253\314\244\204\362\165\061\225\100\250\252
\273\223\265\167\230\154\362\310\340\041\132\043\344\102\247\223
\310\250\035\070\316\244\032\100\100\277\074\223\220\233\137\326
\224\301\042\133\106\327\305\000\025\325\217\306\367\336\013\257
\156\213\005\217\133\200\225\016\243\275\223\314\220\362\175\343
\110\176\262\315\007\075\033\355\024\220\164\363\335\064\037\174
\344\003\131\361\055\315\340\243\240\073\041\056\134\256\254\010
\006\120\025\061\065\356\137\371\037\015\064\245\200\156\142\162
\117\343\041\272\070\100\135\137\333\150\052\134\064\306\010\073
\366\174\056\250\215\304\267\246\255\331\233\277\031\101\016\110
\071\011\146\156\015\064\001\305\273\007\021\043\244\332\376\140
\226\050\107\334\217\147\233\023\257\175\171\016\170\315\300\214
\057\273\041\054\374\164\026\036\336\300\062\235\372\170\072\206
\272\076\311\170\012\000\321\344\340\311\022\342\133\334\353\273
\200\232\062\065\253\360\060\303\016\110\204\057\215\010\012\366
\054\214\115\062\200\105\125\010\333\315\015\250\277\010\172\270
\347\150\135\232\224\211\225\274\374\232\216\270\177\072\330\154
\325\364\030\254\151\342\244\301\013\263\037\243\202\237\363\212
\074\205\100\070\011\372\302\005\076\341\234\211\372\303\005\154
\010\217\135\121\364\177\273\304\363\154\001\275\075\117\304\031
\213\071\331\312\314\351\171\210\004\125\253\155\270\332\026\105
\145\071\025\005\030\373\013\054\163\001\355\224\122\345\175\014
\001\073\011\240\115\361\075\010\201\146\064\066\027\104\360\147
\363\133\362\005\266\041\230\130\331\364\241\067\331\157\346\357
\126\304\373\277\126\142\002\254\060\060\266\002\326\322\026\374
\116\352\207\103\232\150\135\210\243\221\106\050\053\277\071\025
\025\002\003\001\000\001\243\201\221\060\201\216\060\017\006\003
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\035\006
\003\125\035\016\004\026\004\024\175\273\151\353\210\141\341\100
\317\107\043\144\000\206\242\146\153\334\204\225\060\114\006\003
\125\035\040\004\105\060\103\060\101\006\004\125\035\040\000\060
\071\060\067\006\010\053\006\001\005\005\007\002\001\026\053\150
\164\164\160\072\057\057\167\167\167\056\143\157\162\162\145\157
\056\143\157\155\056\165\171\057\143\157\162\162\145\157\143\145
\162\164\057\143\160\163\056\160\144\146\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\003\202\002\001\000\126\337
\023\211\276\142\267\016\201\041\163\244\324\067\312\355\267\057
\225\164\327\211\370\113\107\201\356\147\355\270\051\337\041\240
\374\124\147\147\310\127\054\133\241\012\165\170\041\041\312\240
\250\337\153\234\331\066\002\215\270\001\301\157\216\173\154\311
\244\262\305\106\251\312\114\002\201\372\243\173\235\075\110\346
\312\100\146\322\104\235\166\340\125\271\246\234\247\321\103\330
\365\240\264\235\370\367\345\246\246\102\363\002\062\131\106\162
\053\024\354\136\145\325\121\201\170\316\252\057\215\226\211\171
\152\373\017\310\133\317\264\256\220\266\137\343\174\142\154\267
\246\377\220\201\265\230\221\163\022\060\257\307\350\201\002\150
\163\051\273\130\165\075\267\326\103\325\256\115\362\102\271\360

\337\332\061\000\023\332\341\263\266\006\213\133\375\311\230\270
\242\023\321\272\217\301\212\032\236\017\377\202\276\004\202\345
\053\223\076\036\265\242\014\033\306\032\260\163\211\166\203\274
\216\073\273\027\155\024\303\213\276\175\025\046\265\251\234\027
\172\120\172\055\353\351\231\224\256\230\020\275\356\052\135\135
\326\216\064\133\254\036\207\140\153\230\307\207\217\323\234\262
\150\005\111\007\371\251\061\146\234\376\277\247\131\350\054\360
\066\324\362\250\031\202\300\236\247\071\371\261\230\064\243\037
\372\315\311\031\055\170\336\267\375\142\360\223\243\376\000\133
\326\012\344\363\176\174\227\050\341\005\354\005\064\105\023\377
\051\023\141\212\047\117\333\270\322\222\041\047\265\210\167\147
\250\176\317\044\074\207\010\004\063\163\217\013\266\206\370\317
\357\262\246\044\036\013\221\221\000\120\026\062\022\330\011\045
\332\143\116\335\333\055\327\347\004\153\343\143\037\251\376\251
\001\143\304\312\114\024\150\203\274\005\254\131\026\373\156\241
\007\157\273\113\276\155\230\110\166\045\173\112\021\226\124\010
\254\251\363\067\253\203\303\321\315\201\230\300\345\100\065\270
\237\221\347\157\346\113\040\026\212\123\173\254\072\321\230\065
\124\320\324\277\256\176\232\113\036\351\165\243\045\260\073\347
\145\277\117\225\364\035\275\304\272\311\115\201\121\302\077\132
\331\022\364\041\033\326\225\352\075\220\376\251\223\342
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Correo Uruguayo - Root CA"
Issuer: CN=Correo Uruguayo - Root CA,OU=SERVICIOS ELECTRONICOS,O=ADMINISTRACION
NACIONAL DE CORREOS,C=UY
Serial Number:ca:22:79:08:23:2a:f0:f5:82:b8:85:d3:63:dd:f1
Subject: CN=Correo Uruguayo - Root CA,OU=SERVICIOS ELECTRONICOS,O=ADMINISTRACION
NACIONAL DE CORREOS,C=UY
Not Valid Before: Mon Jul 14 16:52:15 2008
Not Valid After: Tue Dec 31 02:59:59 2030
Fingerprint (MD5): 24:6d:ab:d2:f2:ea:4a:66:ae:5b:bc:ae:50:ad:6e:56
Fingerprint (SHA1): f9:dd:19:26:6b:20:43:f1:fe:4b:3d:cb:01:90:af:f1:1f:31:a6:9d
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Correo Uruguayo - Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\371\335\031\046\153\040\103\361\376\113\075\313\001\220\257\361
\037\061\246\235
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\044\155\253\322\362\352\112\146\256\133\274\256\120\255\156\126

```
END
CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\125\131\061
\053\060\051\006\003\125\004\012\014\042\101\104\115\111\116\111
\123\124\122\101\103\111\117\116\040\116\101\103\111\117\116\101
\114\040\104\105\040\103\117\122\122\105\117\123\061\037\060\035
\006\003\125\004\013\014\026\123\105\122\126\111\103\111\117\123
\040\105\114\105\103\124\122\117\116\111\103\117\123\061\042\060
\040\006\003\125\004\003\014\031\103\157\162\162\145\157\040\125
\162\165\147\165\141\171\157\040\055\040\122\157\157\164\040\103
\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\000\312\042\171\010\043\052\360\365\202\270\205\323\143
\335\361
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "CNNIC ROOT"
# Issuer: CN=CNNIC ROOT,O=CNNIC,C=CN
# Serial Number:49:33:00:01
# Subject: CN=CNNIC ROOT,O=CNNIC,C=CN
# Not Valid Before: Mon Apr 16 07:09:14 2007
# Not Valid After: Fri Apr 16 07:09:14 2027
# Fingerprint (MD5): 21:bc:82:ab:49:c4:13:3b:4b:b2:2b:5c:6b:90:9c:19
# Fingerprint (SHA1): 8b:af:4c:9b:1d:f0:2a:92:f7:da:12:8e:b9:1b:ac:f4:98:60:4b:6f
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CNNIC ROOT"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\062\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\016\060\014\006\003\125\004\012\023\005\103\116\116\111\103\061
\023\060\021\006\003\125\004\003\023\012\103\116\116\111\103\040
\122\117\117\124
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\062\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\016\060\014\006\003\125\004\012\023\005\103\116\116\111\103\061
\023\060\021\006\003\125\004\003\023\012\103\116\116\111\103\040
\122\117\117\124
```

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\111\063\000\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\125\060\202\002\075\240\003\002\001\002\002\004\111
\063\000\001\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\060\062\061\013\060\011\006\003\125\004\006\023\002\103
\116\061\016\060\014\006\003\125\004\012\023\005\103\116\116\111
\103\061\023\060\021\006\003\125\004\003\023\012\103\116\116\111
\103\040\122\117\117\124\060\036\027\015\060\067\060\064\061\066
\060\067\060\071\061\064\132\027\015\062\067\060\064\061\066\060
\067\060\071\061\064\132\060\062\061\013\060\011\006\003\125\004
\006\023\002\103\116\061\016\060\014\006\003\125\004\012\023\005
\103\116\116\111\103\061\023\060\021\006\003\125\004\003\023\012
\103\116\116\111\103\040\122\117\117\124\060\202\001\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001
\017\000\060\202\001\012\002\202\001\001\000\323\065\367\077\163
\167\255\350\133\163\027\302\321\157\355\125\274\156\352\350\244
\171\262\154\303\243\357\341\237\261\073\110\205\365\232\134\041
\042\020\054\305\202\316\332\343\232\156\067\341\207\054\334\271
\014\132\272\210\125\337\375\252\333\037\061\352\001\361\337\071
\001\301\023\375\110\122\041\304\125\337\332\330\263\124\166\272
\164\261\267\175\327\300\350\366\131\305\115\310\275\255\037\024
\332\337\130\104\045\062\031\052\307\176\176\216\256\070\260\060
\173\107\162\011\061\360\060\333\303\033\166\051\273\151\166\116
\127\371\033\144\242\223\126\267\157\231\156\333\012\004\234\021
\343\200\037\313\143\224\020\012\251\341\144\202\061\371\214\047
\355\246\231\000\366\160\223\030\370\241\064\206\243\335\172\302
\030\171\366\172\145\065\317\220\353\275\063\223\237\123\253\163
\073\346\233\064\040\057\035\357\251\035\143\032\240\200\333\003
\057\371\046\032\206\322\215\273\251\276\122\072\207\147\110\015
\277\264\240\330\046\276\043\137\163\067\177\046\346\222\004\243
\177\317\040\247\267\363\072\312\313\231\313\002\003\001\000\001
\243\163\060\161\060\021\006\011\140\206\110\001\206\370\102\001
\001\004\004\003\002\000\007\060\037\006\003\125\035\043\004\030
\060\026\200\024\145\362\061\255\052\367\367\335\122\226\012\307
\002\301\016\357\246\325\073\021\060\017\006\003\125\035\023\001
\001\377\004\005\060\003\001\001\377\060\013\006\003\125\035\017
\004\004\003\002\001\376\060\035\006\003\125\035\016\004\026\004
\024\145\362\061\255\052\367\367\335\122\226\012\307\002\301\016
\357\246\325\073\021\060\015\006\011\052\206\110\206\367\015\001
\001\005\005\000\003\202\001\001\000\113\065\356\314\344\256\277
\303\156\255\237\225\073\113\077\133\036\337\127\051\242\131\312
\070\342\271\032\377\236\346\156\062\335\036\256\352\065\267\365
\223\221\116\332\102\341\303\027\140\120\362\321\134\046\271\202
\267\352\155\344\234\204\347\003\171\027\257\230\075\224\333\307
\272\000\347\270\277\001\127\301\167\105\062\014\073\361\264\034

\010\260\375\121\240\241\335\232\035\023\066\232\155\267\307\074
\271\341\305\331\027\372\203\325\075\025\240\074\273\036\013\342
\310\220\077\250\206\014\374\371\213\136\205\313\117\133\113\142
\021\107\305\105\174\005\057\101\261\236\020\151\033\231\226\340
\125\171\373\116\206\231\270\224\332\206\070\152\223\243\347\313
\156\345\337\352\041\125\211\234\175\175\177\230\365\000\211\356
\343\204\300\134\226\265\305\106\352\106\340\205\125\266\033\311
\022\326\301\315\315\200\363\002\001\074\310\151\313\105\110\143
\330\224\320\354\205\016\073\116\021\145\364\202\214\246\075\256
\056\042\224\011\310\134\352\074\201\135\026\052\003\227\026\125
\011\333\212\101\202\236\146\233\021
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "CNNIC ROOT"
Issuer: CN=CNNIC ROOT,O=CNNIC,C=CN
Serial Number:49:33:00:01
Subject: CN=CNNIC ROOT,O=CNNIC,C=CN
Not Valid Before: Mon Apr 16 07:09:14 2007
Not Valid After: Fri Apr 16 07:09:14 2027
Fingerprint (MD5): 21:bc:82:ab:49:c4:13:3b:4b:b2:2b:5c:6b:90:9c:19
Fingerprint (SHA1): 8b:af:4c:9b:1d:f0:2a:92:f7:da:12:8e:b9:1b:ac:f4:98:60:4b:6f
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CNNIC ROOT"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\213\257\114\233\035\360\052\222\367\332\022\216\271\033\254\364
\230\140\113\157
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\041\274\202\253\111\304\023\073\113\262\053\134\153\220\234\031
END
CKA_ISSUER MULTILINE_OCTAL
\060\062\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\016\060\014\006\003\125\004\012\023\005\103\116\116\111\103\061
\023\060\021\006\003\125\004\003\023\012\103\116\116\111\103\040
\122\117\117\124
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\111\063\000\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Common Policy"
Issuer: CN=Common Policy,OU=FBCA,O=U.S. Government,C=us
Serial Number:29:36:47:aa:e3:8a:ac:86:4a:23:56:f2:ca:b7:61:af
Subject: CN=Common Policy,OU=FBCA,O=U.S. Government,C=us
Not Valid Before: Mon Oct 15 15:58:00 2007
Not Valid After: Fri Oct 15 16:08:00 2027
Fingerprint (MD5): f0:58:c5:03:82:67:17:ab:8f:da:03:10:27:8e:19:c2
Fingerprint (SHA1): cb:44:a0:97:85:7c:45:fa:18:7e:d9:52:08:6c:b9:84:1f:2d:51:b5
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Common Policy"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\165\163\061
\030\060\026\006\003\125\004\012\023\017\125\056\123\056\040\107
\157\166\145\162\156\155\145\156\164\061\015\060\013\006\003\125
\004\013\023\004\106\102\103\101\061\026\060\024\006\003\125\004
\003\023\015\103\157\155\155\157\156\040\120\157\154\151\143\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\165\163\061
\030\060\026\006\003\125\004\012\023\017\125\056\123\056\040\107
\157\166\145\162\156\155\145\156\164\061\015\060\013\006\003\125
\004\013\023\004\106\102\103\101\061\026\060\024\006\003\125\004
\003\023\015\103\157\155\155\157\156\040\120\157\154\151\143\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\051\066\107\252\343\212\254\206\112\043\126\362\312\267
\141\257
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\241\060\202\002\211\240\003\002\001\002\002\020\051
\066\107\252\343\212\254\206\112\043\126\362\312\267\141\257\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\116
\061\013\060\011\006\003\125\004\006\023\002\165\163\061\030\060
\026\006\003\125\004\012\023\017\125\056\123\056\040\107\157\166
\145\162\156\155\145\156\164\061\015\060\013\006\003\125\004\013
\023\004\106\102\103\101\061\026\060\024\006\003\125\004\003\023
\015\103\157\155\155\157\156\040\120\157\154\151\143\171\060\036
\027\015\060\067\061\060\061\065\061\065\065\070\060\060\132\027
\015\062\067\061\060\061\065\061\066\060\070\060\060\132\060\116

\061\013\060\011\006\003\125\004\006\023\002\165\163\061\030\060
\026\006\003\125\004\012\023\017\125\056\123\056\040\107\157\166
\145\162\156\155\145\156\164\061\015\060\013\006\003\125\004\013
\023\004\106\102\103\101\061\026\060\024\006\003\125\004\003\023
\015\103\157\155\155\157\156\040\120\157\154\151\143\171\060\202
\001\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\001\017\000\060\202\001\012\002\202\001\001\000\227
\215\275\063\047\344\255\133\373\170\275\057\107\107\156\307\170
\351\223\234\244\336\311\034\375\057\033\071\070\254\107\027\300
\176\167\051\000\073\003\037\150\017\315\115\245\356\167\270\054
\142\153\061\366\372\162\011\175\060\051\006\174\347\174\243\075
\204\030\212\035\256\054\222\250\037\350\136\117\215\216\353\077
\032\370\234\012\147\235\260\147\115\360\056\320\060\336\303\224
\260\240\317\056\012\064\177\124\011\323\066\275\244\111\127\122
\163\351\235\376\344\110\171\106\033\133\215\062\344\245\110\144
\363\042\015\222\235\010\025\277\140\074\203\367\107\042\045\042
\255\051\161\267\167\357\027\311\242\266\224\136\310\060\220\244
\024\110\134\126\127\013\101\114\005\324\052\114\077\256\022\233
\131\021\165\160\007\042\151\055\054\323\061\314\222\176\314\315
\244\176\224\107\252\234\011\010\366\113\257\122\350\152\100\221
\305\125\275\100\261\310\155\127\206\225\027\346\037\163\276\107
\056\076\213\114\027\271\271\045\034\245\122\027\066\010\131\300
\102\276\012\053\264\126\121\074\033\125\311\214\220\167\353\002
\003\001\000\001\243\173\060\171\060\016\006\003\125\035\017\001
\001\377\004\004\003\002\001\006\060\017\006\003\125\035\023\001
\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016
\004\026\004\024\057\130\227\330\251\005\230\245\126\037\373\331
\253\165\357\002\074\066\064\307\060\022\006\011\053\006\001\004
\001\202\067\025\001\004\005\002\003\001\000\001\060\043\006\011
\053\006\001\004\001\202\067\025\002\004\026\004\024\166\267\140
\226\335\024\126\051\254\165\205\323\160\143\301\274\107\206\034
\213\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000
\003\202\001\001\000\140\256\363\110\026\100\162\246\010\210\311
\274\107\054\044\113\135\240\221\163\355\145\170\220\360\147\220
\172\245\277\012\255\266\052\371\231\147\337\203\305\167\037\064
\011\070\371\176\236\101\340\110\140\376\342\252\135\207\210\352
\210\375\134\105\262\311\152\332\175\244\255\261\117\277\034\015
\237\036\232\300\325\024\163\070\053\212\170\100\156\060\367\142
\341\315\231\374\121\151\147\154\021\335\270\020\243\150\336\046
\245\126\375\066\154\067\230\154\373\356\174\074\154\153\160\077
\367\110\067\011\217\013\102\201\255\106\106\270\013\203\006\364
\033\070\240\177\117\315\013\357\203\211\207\227\034\212\060\147
\334\375\124\241\003\176\001\313\205\114\261\013\051\303\276\354
\174\341\077\017\011\122\074\057\247\232\110\376\067\351\021\006
\130\341\066\101\212\304\266\277\216\335\316\112\263\274\032\300
\315\372\032\231\322\161\233\372\317\274\362\304\124\243\210\065
\166\314\033\054\106\157\014\264\321\303\141\166\222\164\021\352
\113\200\215\034\211\021\213\354\133\377\027\311\110\374\347\340

\006\021\342\204\136
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Common Policy"
Issuer: CN=Common Policy,OU=FBCA,O=U.S. Government,C=us
Serial Number:29:36:47:aa:e3:8a:ac:86:4a:23:56:f2:ca:b7:61:af
Subject: CN=Common Policy,OU=FBCA,O=U.S. Government,C=us
Not Valid Before: Mon Oct 15 15:58:00 2007
Not Valid After: Fri Oct 15 16:08:00 2027
Fingerprint (MD5): f0:58:c5:03:82:67:17:ab:8f:da:03:10:27:8e:19:c2
Fingerprint (SHA1): cb:44:a0:97:85:7c:45:fa:18:7e:d9:52:08:6c:b9:84:1f:2d:51:b5
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Common Policy"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\313\104\240\227\205\174\105\372\030\176\331\122\010\154\271\204
\037\055\121\265
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\360\130\305\003\202\147\027\253\217\332\003\020\047\216\031\302
END
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\165\163\061
\030\060\026\006\003\125\004\012\023\017\125\056\123\056\040\107
\157\166\145\162\156\155\145\156\164\061\015\060\013\006\003\125
\004\013\023\004\106\102\103\101\061\026\060\024\006\003\125\004
\003\023\015\103\157\155\155\157\156\040\120\157\154\151\143\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\051\066\107\252\343\212\254\206\112\043\126\362\312\267
\141\257
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Macao Post eSignTrust Root Certification Authority"
Issuer: CN=Macao Post eSignTrust Root Certification Authority,O=Macao Post,C=MO
Serial Number:43:11:5a:96:1f:65:5a:d6:f0:33:12:fd:ed:d0:b9:75
Subject: CN=Macao Post eSignTrust Root Certification Authority,O=Macao Post,C=MO

Not Valid Before: Thu Jan 30 00:00:00 2003
Not Valid After: Tue Jan 29 23:59:59 2013
Fingerprint (MD5): 6d:38:c4:9b:22:24:4c:a3:a8:b3:a0:93:45:e1:57:fa
Fingerprint (SHA1): 89:c3:2e:6b:52:4e:4d:65:38:8b:9e:ce:dc:63:71:34:ed:41:93:a3
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Macao Post eSignTrust Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\115\117\061
\023\060\021\006\003\125\004\012\023\012\115\141\143\141\157\040
\120\157\163\164\061\073\060\071\006\003\125\004\003\023\062\115
\141\143\141\157\040\120\157\163\164\040\145\123\151\147\156\124
\162\165\163\164\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\115\117\061
\023\060\021\006\003\125\004\012\023\012\115\141\143\141\157\040
\120\157\163\164\061\073\060\071\006\003\125\004\003\023\062\115
\141\143\141\157\040\120\157\163\164\040\145\123\151\147\156\124
\162\165\163\164\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\103\021\132\226\037\145\132\326\360\063\022\375\355\320
\271\165
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\145\060\202\002\115\240\003\002\001\002\002\020\103
\021\132\226\037\145\132\326\360\063\022\375\355\320\271\165\060
\015\006\011\052\206\110\206\367\015\001\001\004\005\000\060\137
\061\013\060\011\006\003\125\004\006\023\002\115\117\061\023\060
\021\006\003\125\004\012\023\012\115\141\143\141\157\040\120\157
\163\164\061\073\060\071\006\003\125\004\003\023\062\115\141\143
\141\157\040\120\157\163\164\040\145\123\151\147\156\124\162\165
\163\164\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\060
\036\027\015\060\063\060\061\063\060\060\060\060\060\060\060\132
\027\015\061\063\060\061\062\071\062\063\065\071\065\071\132\060
\137\061\013\060\011\006\003\125\004\006\023\002\115\117\061\023
\060\021\006\003\125\004\012\023\012\115\141\143\141\157\040\120
\157\163\164\061\073\060\071\006\003\125\004\003\023\062\115\141

\143\141\157\040\120\157\163\164\040\145\123\151\147\156\124\162
\165\163\164\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001\001
\000\242\034\266\270\270\261\315\124\111\203\256\072\307\255\204
\320\135\377\225\253\365\377\001\033\136\357\040\076\275\200\040
\111\054\150\262\203\061\354\225\055\156\111\262\173\277\144\237
\127\055\325\042\153\356\127\227\164\207\352\373\120\315\162\347
\044\055\160\124\274\244\342\052\205\265\002\371\247\140\266\162
\131\353\121\254\106\112\374\247\165\373\004\324\000\377\332\014
\316\313\223\017\062\171\166\326\046\340\315\162\015\113\352\046
\217\113\174\326\343\142\150\210\046\320\115\267\232\047\233\300
\233\266\022\301\233\354\004\321\065\332\047\276\060\342\175\003
\316\106\070\010\157\341\367\236\054\016\272\012\061\327\302\152
\104\206\147\321\350\111\223\024\300\314\136\221\247\373\126\272
\201\000\070\154\322\231\301\277\134\350\244\355\112\234\352\342
\122\275\343\371\213\370\104\346\304\100\101\315\357\000\114\271
\302\251\374\001\364\356\376\260\221\017\200\161\266\345\221\150
\242\345\147\327\350\345\350\243\316\164\254\136\027\255\073\021
\104\027\136\145\166\262\042\115\270\013\073\351\077\211\151\365
\263\002\003\001\000\001\243\035\060\033\060\014\006\003\125\035
\023\004\005\060\003\001\001\377\060\013\006\003\125\035\017\004
\004\003\002\001\006\060\015\006\011\052\206\110\206\367\015\001
\001\004\005\000\003\202\001\001\000\240\224\121\001\330\314\373
\027\176\334\235\176\301\210\262\134\027\317\260\306\044\311\064
\260\006\145\231\023\124\105\207\027\175\301\310\056\141\064\356
\306\155\303\115\152\251\036\253\075\043\024\342\005\010\230\125
\002\016\274\151\213\327\317\117\137\045\320\147\271\126\076\113
\353\103\202\015\327\050\053\313\357\021\232\360\332\144\151\160
\342\230\052\000\206\157\230\352\113\016\232\234\215\274\252\117
\270\375\157\373\123\044\163\257\324\231\274\365\156\314\226\076
\326\135\327\064\065\151\171\261\321\312\165\311\300\204\275\056
\161\245\032\201\221\374\033\211\302\062\107\062\174\150\301\273
\124\342\041\200\154\366\356\154\306\007\226\136\075\300\271\152
\063\304\005\160\251\154\236\325\154\336\306\365\223\147\157\225
\011\300\150\345\370\343\341\062\344\243\015\151\241\015\252\100
\300\343\204\241\313\375\061\056\320\006\224\066\350\240\041\377
\164\335\021\067\111\046\121\105\117\221\022\040\126\362\277\001
\374\331\361\027\156\232\370\134\031\234\064\042\304\046\321\205
\010\204\322\010\003\110\312\030\006
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Macao Post eSignTrust Root Certification Authority"

Issuer: CN=Macao Post eSignTrust Root Certification Authority,O=Macao Post,C=MO
Serial Number:43:11:5a:96:1f:65:5a:d6:f0:33:12:fd:ed:d0:b9:75
Subject: CN=Macao Post eSignTrust Root Certification Authority,O=Macao Post,C=MO
Not Valid Before: Thu Jan 30 00:00:00 2003
Not Valid After: Tue Jan 29 23:59:59 2013
Fingerprint (MD5): 6d:38:c4:9b:22:24:4c:a3:a8:b3:a0:93:45:e1:57:fa
Fingerprint (SHA1): 89:c3:2e:6b:52:4e:4d:65:38:8b:9e:ce:dc:63:71:34:ed:41:93:a3
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Macao Post eSignTrust Root Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\211\303\056\153\122\116\115\145\070\213\236\316\334\143\161\064
\355\101\223\243
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\155\070\304\233\042\044\114\243\250\263\240\223\105\341\127\372
END
CKA_ISSUER MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\115\117\061
\023\060\021\006\003\125\004\012\023\012\115\141\143\141\157\040
\120\157\163\164\061\073\060\071\006\003\125\004\003\023\062\115
\141\143\141\157\040\120\157\163\164\040\145\123\151\147\156\124
\162\165\163\164\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\103\021\132\226\037\145\132\326\360\063\022\375\355\320
\271\165
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Staat der Nederlanden Root CA - G2"
Issuer: CN=Staat der Nederlanden Root CA - G2,O=Staat der Nederlanden,C=NL
Serial Number:98:96:8c
Subject: CN=Staat der Nederlanden Root CA - G2,O=Staat der Nederlanden,C=NL
Not Valid Before: Wed Mar 26 11:18:17 2008
Not Valid After: Wed Mar 25 11:03:10 2020
Fingerprint (MD5): 7c:a5:0f:f8:5b:9a:7d:6d:30:ae:54:5a:e3:42:a2:8a
Fingerprint (SHA1): 59:af:82:79:91:86:c7:b4:75:07:cb:cf:03:57:46:eb:04:dd:b7:16
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden Root CA - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\053\060\051\006\003\125\004\003\014\042\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\122\157\157\164\040\103\101\040\055\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\053\060\051\006\003\125\004\003\014\042\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\122\157\157\164\040\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\000\230\226\214
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\312\060\202\003\262\240\003\002\001\002\002\004\000
\230\226\214\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\132\061\013\060\011\006\003\125\004\006\023\002\116
\114\061\036\060\034\006\003\125\004\012\014\025\123\164\141\141
\164\040\144\145\162\040\116\145\144\145\162\154\141\156\144\145
\156\061\053\060\051\006\003\125\004\003\014\042\123\164\141\141
\164\040\144\145\162\040\116\145\144\145\162\154\141\156\144\145
\156\040\122\157\157\164\040\103\101\040\055\040\107\062\060\036
\027\015\060\070\060\063\062\066\061\061\061\070\061\067\132\027
\015\062\060\060\063\062\065\061\061\060\063\061\060\132\060\132
\061\013\060\011\006\003\125\004\006\023\002\116\114\061\036\060
\034\006\003\125\004\012\014\025\123\164\141\141\164\040\144\145
\162\040\116\145\144\145\162\154\141\156\144\145\156\061\053\060
\051\006\003\125\004\003\014\042\123\164\141\141\164\040\144\145
\162\040\116\145\144\145\162\154\141\156\144\145\156\040\122\157
\157\164\040\103\101\040\055\040\107\062\060\202\002\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002
\017\000\060\202\002\012\002\202\002\001\000\305\131\347\157\165
\252\076\113\234\265\270\254\236\013\344\371\331\312\253\135\217
\265\071\020\202\327\257\121\340\073\341\000\110\152\317\332\341
\006\103\021\231\252\024\045\022\255\042\350\000\155\103\304\251
\270\345\037\211\113\147\275\141\110\357\375\322\340\140\210\345
\271\030\140\050\303\167\053\255\260\067\252\067\336\144\131\052

\106\127\344\113\271\370\067\174\325\066\347\200\301\266\363\324
\147\233\226\350\316\327\306\012\123\320\153\111\226\363\243\013
\005\167\110\367\045\345\160\254\060\024\040\045\343\177\165\132
\345\110\370\116\173\003\007\004\372\202\141\207\156\360\073\304
\244\307\320\365\164\076\245\135\032\010\362\233\045\322\366\254
\004\046\076\125\072\142\050\245\173\262\060\257\370\067\302\321
\272\326\070\375\364\357\111\060\067\231\046\041\110\205\001\251
\345\026\347\334\220\125\337\017\350\070\315\231\067\041\117\135
\365\042\157\152\305\022\026\140\027\125\362\145\146\246\247\060
\221\070\301\070\035\206\004\204\272\032\045\170\136\235\257\314
\120\140\326\023\207\122\355\143\037\155\145\175\302\025\030\164
\312\341\176\144\051\214\162\330\026\023\175\013\111\112\361\050
\033\040\164\153\305\075\335\260\252\110\011\075\056\202\224\315
\032\145\331\053\210\232\231\274\030\176\237\356\175\146\174\076
\275\224\270\201\316\315\230\060\170\301\157\147\320\276\137\340
\150\355\336\342\261\311\054\131\170\222\252\337\053\140\143\362
\345\136\271\343\312\372\177\120\206\076\242\064\030\014\011\150
\050\021\034\344\341\271\134\076\107\272\062\077\030\314\133\204
\365\363\153\164\304\162\164\341\343\213\240\112\275\215\146\057
\352\255\065\332\040\323\210\202\141\360\022\042\266\274\320\325
\244\354\257\124\210\045\044\074\247\155\261\162\051\077\076\127
\246\177\125\257\156\046\306\376\347\314\100\134\121\104\201\012
\170\336\112\316\125\277\035\325\331\267\126\357\360\166\377\013
\171\265\257\275\373\251\151\221\106\227\150\200\024\066\035\263
\177\273\051\230\066\245\040\372\202\140\142\063\244\354\326\272
\007\247\156\305\317\024\246\347\326\222\064\330\201\365\374\035
\135\252\134\036\366\243\115\073\270\367\071\002\003\001\000\001
\243\201\227\060\201\224\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\122\006\003\125\035\040\004\113
\060\111\060\107\006\004\125\035\040\000\060\077\060\075\006\010
\053\006\001\005\005\007\002\001\026\061\150\164\164\160\072\057
\057\167\167\167\056\160\153\151\157\166\145\162\150\145\151\144
\056\156\154\057\160\157\154\151\143\151\145\163\057\162\157\157
\164\055\160\157\154\151\143\171\055\107\062\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003\125
\035\016\004\026\004\024\221\150\062\207\025\035\211\342\265\361
\254\066\050\064\215\013\174\142\210\353\060\015\006\011\052\206
\110\206\367\015\001\001\013\005\000\003\202\002\001\000\250\101
\112\147\052\222\201\202\120\156\341\327\330\263\071\073\363\002
\025\011\120\121\357\055\275\044\173\210\206\073\371\264\274\222
\011\226\271\366\300\253\043\140\006\171\214\021\116\121\322\171
\200\063\373\235\110\276\354\101\103\201\037\176\107\100\034\345
\172\010\312\252\213\165\255\024\304\302\350\146\074\202\007\247
\346\047\202\133\030\346\017\156\331\120\076\212\102\030\051\306
\264\126\374\126\020\240\005\027\275\014\043\177\364\223\355\234
\032\121\276\335\105\101\277\221\044\264\037\214\351\137\317\173
\041\231\237\225\237\071\072\106\034\154\371\315\173\234\220\315
\050\251\307\251\125\273\254\142\064\142\065\023\113\024\072\125

\203\271\206\215\222\246\306\364\007\045\124\314\026\127\022\112
\202\170\310\024\331\027\202\046\055\135\040\037\171\256\376\324
\160\026\026\225\203\330\065\071\377\122\135\165\034\026\305\023
\125\317\107\314\165\145\122\112\336\360\260\247\344\012\226\013
\373\255\302\342\045\204\262\335\344\275\176\131\154\233\360\360
\330\347\312\362\351\227\070\176\211\276\314\373\071\027\141\077
\162\333\072\221\330\145\001\031\035\255\120\244\127\012\174\113
\274\234\161\163\052\105\121\031\205\314\216\375\107\247\164\225
\035\250\321\257\116\027\261\151\046\302\252\170\127\133\305\115
\247\345\236\005\027\224\312\262\137\240\111\030\215\064\351\046
\154\110\036\252\150\222\005\341\202\163\132\233\334\007\133\010
\155\175\235\327\215\041\331\374\024\040\252\302\105\337\077\347
\000\262\121\344\302\370\005\271\171\032\214\064\363\236\133\344
\067\133\153\112\337\054\127\212\100\132\066\272\335\165\104\010
\067\102\160\014\376\334\136\041\240\243\212\300\220\234\150\332
\120\346\105\020\107\170\266\116\322\145\311\303\067\337\341\102
\143\260\127\067\105\055\173\212\234\277\005\352\145\125\063\367
\071\020\305\050\052\041\172\033\212\304\044\371\077\025\310\232
\025\040\365\125\142\226\355\155\223\120\274\344\252\170\255\331
\313\012\145\207\246\146\301\304\201\243\167\072\130\036\013\356
\203\213\235\036\322\122\244\314\035\157\260\230\155\224\061\265
\370\161\012\334\271\374\175\062\140\346\353\257\212\001
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Staat der Nederlanden Root CA - G2"
Issuer: CN=Staat der Nederlanden Root CA - G2,O=Staat der Nederlanden,C=NL
Serial Number:98:96:8c
Subject: CN=Staat der Nederlanden Root CA - G2,O=Staat der Nederlanden,C=NL
Not Valid Before: Wed Mar 26 11:18:17 2008
Not Valid After: Wed Mar 25 11:03:10 2020
Fingerprint (MD5): 7c:a5:0f:f8:5b:9a:7d:6d:30:ae:54:5a:e3:42:a2:8a
Fingerprint (SHA1): 59:af:82:79:91:86:c7:b4:75:07:cb:cf:03:57:46:eb:04:dd:b7:16
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden Root CA - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\131\257\202\171\221\206\307\264\165\007\313\317\003\127\106\353
\004\335\267\026
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\174\245\017\370\133\232\175\155\060\256\124\132\343\102\242\212
END

CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\053\060\051\006\003\125\004\003\014\042\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\122\157\157\164\040\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\000\230\226\214
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "NetLock Platina (Class Platinum) Ftanúsítvány"
Issuer: CN=NetLock Platina (Class Platinum) Ftanúsítvány,OU=Tanúsítványkiadók (Certification Services),O=NetLock Kft.,L=Budapest,C=HU
Serial Number:49:41:2d:ec:00:10
Subject: CN=NetLock Platina (Class Platinum) Ftanúsítvány,OU=Tanúsítványkiadók (Certification Services),O=NetLock Kft.,L=Budapest,C=HU
Not Valid Before: Thu Dec 11 15:12:44 2008
Not Valid After: Wed Dec 06 15:12:44 2028
Fingerprint (MD5): d5:97:88:da:64:16:e7:1d:66:4a:a6:ea:37:fc:7a:dc
Fingerprint (SHA1): ec:93:de:08:3c:93:d9:33:a9:86:b3:d5:cd:e2:5a:cb:2f:ee:cf:8e
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NetLock Platina (Class Platinum) Ftanúsítvány"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\255\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\025\060\023\006\003\125\004\012\014\014\116\145
\164\114\157\143\153\040\113\146\164\056\061\067\060\065\006\003
\125\004\013\014\056\124\141\156\303\272\163\303\255\164\166\303
\241\156\171\153\151\141\144\303\263\153\040\050\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\123\145\162\166\151\143
\145\163\051\061\073\060\071\006\003\125\004\003\014\062\116\145
\164\114\157\143\153\040\120\154\141\164\151\156\141\040\050\103
\154\141\163\163\040\120\154\141\164\151\156\165\155\051\040\106
\305\221\164\141\156\303\272\163\303\255\164\166\303\241\156\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL

\060\201\255\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\025\060\023\006\003\125\004\012\014\014\116\145
\164\114\157\143\153\040\113\146\164\056\061\067\060\065\006\003
\125\004\013\014\056\124\141\156\303\272\163\303\255\164\166\303
\241\156\171\153\151\141\144\303\263\153\040\050\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\123\145\162\166\151\143
\145\163\051\061\073\060\071\006\003\125\004\003\014\062\116\145
\164\114\157\143\153\040\120\154\141\164\151\156\141\040\050\103
\154\141\163\163\040\120\154\141\164\151\156\165\155\051\040\106
\305\221\164\141\156\303\272\163\303\255\164\166\303\241\156\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\006\111\101\055\354\000\020
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\041\060\202\004\011\240\003\002\001\002\002\006\111
\101\055\354\000\020\060\015\006\011\052\206\110\206\367\015\001
\001\013\005\000\060\201\255\061\013\060\011\006\003\125\004\006
\023\002\110\125\061\021\060\017\006\003\125\004\007\014\010\102
\165\144\141\160\145\163\164\061\025\060\023\006\003\125\004\012
\014\014\116\145\164\114\157\143\153\040\113\146\164\056\061\067
\060\065\006\003\125\004\013\014\056\124\141\156\303\272\163\303
\255\164\166\303\241\156\171\153\151\141\144\303\263\153\040\050
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145
\162\166\151\143\145\163\051\061\073\060\071\006\003\125\004\003
\014\062\116\145\164\114\157\143\153\040\120\154\141\164\151\156
\141\040\050\103\154\141\163\163\040\120\154\141\164\151\156\165
\155\051\040\106\305\221\164\141\156\303\272\163\303\255\164\166
\303\241\156\171\060\036\027\015\060\070\061\062\061\061\061\065
\061\062\064\064\132\027\015\062\070\061\062\060\066\061\065\061
\062\064\064\132\060\201\255\061\013\060\011\006\003\125\004\006
\023\002\110\125\061\021\060\017\006\003\125\004\007\014\010\102
\165\144\141\160\145\163\164\061\025\060\023\006\003\125\004\012
\014\014\116\145\164\114\157\143\153\040\113\146\164\056\061\067
\060\065\006\003\125\004\013\014\056\124\141\156\303\272\163\303
\255\164\166\303\241\156\171\153\151\141\144\303\263\153\040\050
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145
\162\166\151\143\145\163\051\061\073\060\071\006\003\125\004\003
\014\062\116\145\164\114\157\143\153\040\120\154\141\164\151\156
\141\040\050\103\154\141\163\163\040\120\154\141\164\151\156\165
\155\051\040\106\305\221\164\141\156\303\272\163\303\255\164\166
\303\241\156\171\060\202\002\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012
\002\202\002\001\000\315\362\356\304\032\172\353\164\051\114\266
\275\344\326\012\027\154\145\342\146\075\304\321\274\014\266\132
\326\053\160\137\055\314\041\321\131\020\344\261\023\275\366\314
\042\225\326\154\106\116\221\062\263\353\365\254\313\004\001\117

\166\335\123\076\170\237\371\136\274\265\202\023\106\312\020\343
\035\055\151\053\224\062\020\163\041\253\251\070\305\343\156\023
\144\325\143\251\355\011\146\354\212\157\211\215\021\206\320\365
\277\062\226\013\165\160\365\050\130\102\136\254\151\264\365\374
\221\071\056\242\221\100\321\074\124\101\207\043\144\120\110\171
\150\113\150\223\113\162\353\200\151\263\112\034\220\276\262\101
\243\245\315\027\300\321\032\151\177\002\030\112\265\142\207\046
\127\055\154\250\054\041\071\365\227\136\233\232\246\370\347\114
\171\304\173\073\126\334\172\370\264\130\316\166\012\256\042\125
\353\217\307\204\144\173\275\153\312\225\117\330\276\061\023\277
\215\241\012\053\325\171\267\365\166\255\332\121\134\201\107\142
\250\252\377\317\123\340\064\161\317\015\045\123\251\236\143\107
\257\205\221\370\317\031\021\345\116\371\317\355\343\065\005\001
\042\003\317\232\174\352\035\121\132\313\375\163\075\071\013\061
\353\304\073\312\205\052\021\024\000\240\033\201\242\011\210\110
\363\174\242\144\241\354\147\264\130\207\360\024\352\251\276\245
\042\101\115\354\275\244\016\350\075\207\367\057\252\316\065\206
\117\060\127\222\215\066\256\170\326\375\030\374\327\045\036\317
\172\374\031\375\240\077\162\027\066\010\101\077\227\066\225\014
\211\225\161\105\372\204\326\324\040\140\263\105\012\362\267\225
\075\013\345\244\303\270\022\362\221\154\351\155\140\203\366\105
\021\005\272\346\107\203\331\221\342\156\341\273\106\153\110\033
\274\306\373\317\176\336\054\273\220\204\356\266\047\071\347\215
\242\061\017\337\201\267\054\154\000\342\261\330\052\027\134\033
\036\107\211\113\027\121\024\100\100\117\304\071\030\062\302\200
\140\066\345\172\107\147\366\250\005\124\301\135\226\240\037\266
\210\122\014\002\276\215\125\176\024\113\303\242\001\356\234\212
\101\135\371\137\226\221\011\216\264\344\265\305\004\337\326\066
\255\131\264\262\327\002\003\000\363\221\243\105\060\103\060\022
\006\003\125\035\023\001\001\377\004\010\060\006\001\001\377\002
\001\004\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\006\060\035\006\003\125\035\016\004\026\004\024\346\241\023
\203\376\227\113\362\330\377\061\241\247\164\063\211\316\136\177
\244\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000
\003\202\002\001\000\151\204\102\300\343\136\023\141\227\040\111
\361\364\026\205\245\237\244\021\010\045\304\143\206\217\360\113
\257\263\051\365\007\127\032\142\307\033\105\156\257\135\026\267
\301\320\144\203\073\227\365\103\266\105\220\361\146\052\203\044
\052\377\210\351\172\013\371\302\133\172\257\143\367\011\170\206
\110\131\064\136\233\152\020\116\361\156\225\211\066\112\150\320
\157\233\340\176\117\267\065\017\343\171\261\005\257\047\174\252
\211\012\103\336\372\014\357\331\127\057\050\161\315\151\153\122
\102\311\212\060\105\131\241\314\372\131\112\217\367\326\335\104
\245\263\056\133\021\030\342\262\265\347\021\123\070\376\202\114
\323\163\276\145\222\032\072\250\322\322\252\274\324\276\155\066
\122\377\153\324\322\265\033\067\363\027\102\361\056\247\325\220
\154\164\235\164\365\372\137\042\033\323\334\165\250\265\377\362
\032\321\274\053\000\134\074\305\270\206\010\124\111\242\234\043

\373\357\246\215\160\364\102\122\115\033\040\000\201\370\240\270
\364\164\043\234\276\364\271\016\354\036\152\330\145\112\025\165
\361\167\133\156\330\261\346\017\264\226\270\035\372\206\310\222
\156\213\351\175\337\242\016\325\361\361\174\256\112\343\146\277
\135\374\133\357\110\262\236\151\307\175\220\240\125\266\224\160
\201\271\012\275\211\165\123\354\204\251\003\245\337\121\231\010
\320\164\014\002\326\163\162\006\173\213\273\135\252\116\374\147
\147\330\216\020\003\031\055\067\072\324\167\251\072\034\235\300
\171\173\154\051\167\062\115\112\213\060\210\302\347\066\316\150
\243\232\230\206\371\211\025\236\277\252\121\175\361\120\106\124
\017\002\056\134\237\343\336\127\063\025\376\030\222\141\250\322
\051\005\135\145\104\036\233\343\357\373\334\005\337\025\253\246
\330\013\244\163\262\114\072\340\236\324\263\152\345\072\016\012
\360\116\317\170\201\037\276\251\230\157\261\107\121\175\102\063
\066\263\246\251\002\122\005\164\176\052\154\324\252\222\126\260
\076\073\043\130\261\215\065\247\023\217\147\036\161\025\246\263
\265\003\206\270\040\146\300\110\157\271\254\324\112\003\125\262
\067\337\004\335\042\014\123\206\052\112\052\241\301\070\076\074
\345\074\337\165\227
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "NetLock Platina (Class Platinum) Ftanúsítvány"
Issuer: CN=NetLock Platina (Class Platinum) Ftanúsítvány,OU=Tanúsítványkiadók (Certification Services),O=NetLock Kft.,L=Budapest,C=HU
Serial Number:49:41:2d:ec:00:10
Subject: CN=NetLock Platina (Class Platinum) Ftanúsítvány,OU=Tanúsítványkiadók (Certification Services),O=NetLock Kft.,L=Budapest,C=HU
Not Valid Before: Thu Dec 11 15:12:44 2008
Not Valid After: Wed Dec 06 15:12:44 2028
Fingerprint (MD5): d5:97:88:da:64:16:e7:1d:66:4a:a6:ea:37:fc:7a:dc
Fingerprint (SHA1): ec:93:de:08:3c:93:d9:33:a9:86:b3:d5:cd:e2:5a:cb:2f:ee:cf:8e
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NetLock Platina (Class Platinum) Ftanúsítvány"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\354\223\336\010\074\223\331\063\251\206\263\325\315\342\132\313
\057\356\317\216
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\325\227\210\332\144\026\347\035\146\112\246\352\067\374\172\334
END
CKA_ISSUER MULTILINE_OCTAL

\060\201\255\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\025\060\023\006\003\125\004\012\014\014\116\145
\164\114\157\143\153\040\113\146\164\056\061\067\060\065\006\003
\125\004\013\014\056\124\141\156\303\272\163\303\255\164\166\303
\241\156\171\153\151\141\144\303\263\153\040\050\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\123\145\162\166\151\143
\145\163\051\061\073\060\071\006\003\125\004\003\014\062\116\145
\164\114\157\143\153\040\120\154\141\164\151\156\141\040\050\103
\154\141\163\163\040\120\154\141\164\151\156\165\155\051\040\106
\305\221\164\141\156\303\272\163\303\255\164\166\303\241\156\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\006\111\101\055\354\000\020
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "AC Raíz Certicámara S.A."
Issuer: CN=AC Raíz Certicámara S.A.,O=Sociedad Cameral de Certificación Digital - Certicámara S.A.,C=CO
Serial Number:07:7e:52:93:7b:e0:15:e3:57:f0:69:8c:cb:ec:0c
Subject: CN=AC Raíz Certicámara S.A.,O=Sociedad Cameral de Certificación Digital - Certicámara S.A.,C=CO
Not Valid Before: Mon Nov 27 20:46:29 2006
Not Valid After: Tue Apr 02 21:42:02 2030
Fingerprint (MD5): 93:2a:3e:f6:fd:23:69:0d:71:20:d4:2b:47:99:2b:a6
Fingerprint (SHA1): cb:a1:c5:f8:b0:e3:5e:b8:b9:45:12:d3:f9:34:a2:e9:06:10:d3:36
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC Raíz Certicámara S.A."
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\173\061\013\060\011\006\003\125\004\006\023\002\103\117\061
\107\060\105\006\003\125\004\012\014\076\123\157\143\151\145\144
\141\144\040\103\141\155\145\162\141\154\040\144\145\040\103\145
\162\164\151\146\151\143\141\143\151\303\263\156\040\104\151\147
\151\164\141\154\040\055\040\103\145\162\164\151\143\303\241\155
\141\162\141\040\123\056\101\056\061\043\060\041\006\003\125\004
\003\014\032\101\103\040\122\141\303\255\172\040\103\145\162\164
\151\143\303\241\155\141\162\141\040\123\056\101\056
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\173\061\013\060\011\006\003\125\004\006\023\002\103\117\061

\107\060\105\006\003\125\004\012\014\076\123\157\143\151\145\144
\141\144\040\103\141\155\145\162\141\154\040\144\145\040\103\145
\162\164\151\146\151\143\141\143\151\303\263\156\040\104\151\147
\151\164\141\154\040\055\040\103\145\162\164\151\143\303\241\155
\141\162\141\040\123\056\101\056\061\043\060\041\006\003\125\004
\003\014\032\101\103\040\122\141\303\255\172\040\103\145\162\164
\151\143\303\241\155\141\162\141\040\123\056\101\056
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\017\007\176\122\223\173\340\025\343\127\360\151\214\313\354
\014
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\146\060\202\004\116\240\003\002\001\002\002\017\007
\176\122\223\173\340\025\343\127\360\151\214\313\354\014\060\015
\006\011\052\206\110\206\367\015\001\001\005\005\000\060\173\061
\013\060\011\006\003\125\004\006\023\002\103\117\061\107\060\105
\006\003\125\004\012\014\076\123\157\143\151\145\144\141\144\040
\103\141\155\145\162\141\154\040\144\145\040\103\145\162\164\151
\146\151\143\141\143\151\303\263\156\040\104\151\147\151\164\141
\154\040\055\040\103\145\162\164\151\143\303\241\155\141\162\141
\040\123\056\101\056\061\043\060\041\006\003\125\004\003\014\032
\101\103\040\122\141\303\255\172\040\103\145\162\164\151\143\303
\241\155\141\162\141\040\123\056\101\056\060\036\027\015\060\066
\061\061\062\067\062\060\064\066\062\071\132\027\015\063\060\060
\064\060\062\062\061\064\062\060\062\132\060\173\061\013\060\011
\006\003\125\004\006\023\002\103\117\061\107\060\105\006\003\125
\004\012\014\076\123\157\143\151\145\144\141\144\040\103\141\155
\145\162\141\154\040\144\145\040\103\145\162\164\151\146\151\143
\141\143\151\303\263\156\040\104\151\147\151\164\141\154\040\055
\040\103\145\162\164\151\143\303\241\155\141\162\141\040\123\056
\101\056\061\043\060\041\006\003\125\004\003\014\032\101\103\040
\122\141\303\255\172\040\103\145\162\164\151\143\303\241\155\141
\162\141\040\123\056\101\056\060\202\002\042\060\015\006\011\052
\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060
\202\002\012\002\202\002\001\000\253\153\211\243\123\314\110\043
\010\373\303\317\121\226\010\056\270\010\172\155\074\220\027\206
\251\351\355\056\023\064\107\262\320\160\334\311\074\320\215\312
\356\113\027\253\320\205\260\247\043\004\313\250\242\374\345\165
\333\100\312\142\211\217\120\236\001\075\046\133\030\204\034\313
\174\067\267\175\354\323\177\163\031\260\152\262\330\210\212\055
\105\164\250\367\263\270\300\324\332\315\042\211\164\115\132\025
\071\163\030\164\117\265\353\231\247\301\036\210\264\302\223\220
\143\227\363\247\247\022\262\011\042\007\063\331\221\315\016\234
\037\016\040\307\356\273\063\215\217\302\322\130\247\137\375\145
\067\342\210\302\330\217\206\165\136\371\055\247\207\063\362\170
\067\057\213\274\035\206\067\071\261\224\362\330\274\112\234\203
\030\132\006\374\363\324\324\272\214\025\011\045\360\371\266\215

\004\176\027\022\063\153\127\110\114\117\333\046\036\353\314\220
\347\213\371\150\174\160\017\243\052\320\072\070\337\067\227\342
\133\336\200\141\323\200\330\221\203\102\132\114\004\211\150\021
\074\254\137\150\200\101\314\140\102\316\015\132\052\014\017\233
\060\300\246\360\206\333\253\111\327\227\155\110\213\371\003\300
\122\147\233\022\367\302\362\056\230\145\102\331\326\232\343\320
\031\061\014\255\207\325\127\002\172\060\350\206\046\373\217\043
\212\124\207\344\277\074\356\353\303\165\110\137\036\071\157\201
\142\154\305\055\304\027\124\031\267\067\215\234\067\221\310\366
\013\325\352\143\157\203\254\070\302\363\077\336\232\373\341\043
\141\360\310\046\313\066\310\241\363\060\217\244\243\242\241\335
\123\263\336\360\232\062\037\203\221\171\060\301\251\037\123\233
\123\242\025\123\077\335\235\263\020\073\110\175\211\017\374\355
\003\365\373\045\144\165\016\027\031\015\217\000\026\147\171\172
\100\374\055\131\007\331\220\372\232\255\075\334\200\212\346\134
\065\242\147\114\021\153\261\370\200\144\000\055\157\042\141\305
\254\113\046\345\132\020\202\233\244\203\173\064\367\236\211\221
\040\227\216\267\102\307\146\303\320\351\244\326\365\040\215\304
\303\225\254\104\012\235\133\163\074\046\075\057\112\276\247\311
\247\020\036\373\237\120\151\363\002\003\001\000\001\243\201\346
\060\201\343\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\006\060\035\006\003\125\035\016\004\026\004\024\321
\011\320\351\327\316\171\164\124\371\072\060\263\364\155\054\003
\003\033\150\060\201\240\006\003\125\035\040\004\201\230\060\201
\225\060\201\222\006\004\125\035\040\000\060\201\211\060\053\006
\010\053\006\001\005\005\007\002\001\026\037\150\164\164\160\072
\057\057\167\167\167\056\143\145\162\164\151\143\141\155\141\162
\141\056\143\157\155\057\144\160\143\057\060\132\006\010\053\006
\001\005\005\007\002\002\060\116\032\114\114\151\155\151\164\141
\143\151\157\156\145\163\040\144\145\040\147\141\162\141\156\164
\355\141\163\040\144\145\040\145\163\164\145\040\143\145\162\164
\151\146\151\143\141\144\157\040\163\145\040\160\165\145\144\145
\156\040\145\156\143\157\156\164\162\141\162\040\145\156\040\154
\141\040\104\120\103\056\060\015\006\011\052\206\110\206\367\015
\001\001\005\005\000\003\202\002\001\000\134\224\265\270\105\221
\115\216\141\037\003\050\017\123\174\346\244\131\251\263\212\172
\305\260\377\010\174\054\243\161\034\041\023\147\241\225\022\100
\065\203\203\217\164\333\063\134\360\111\166\012\201\122\335\111
\324\232\062\063\357\233\247\313\165\345\172\313\227\022\220\134
\272\173\305\233\337\273\071\043\310\377\230\316\012\115\042\001
\110\007\176\212\300\325\040\102\224\104\357\277\167\242\211\147
\110\033\100\003\005\241\211\354\317\142\343\075\045\166\146\277
\046\267\273\042\276\157\377\071\127\164\272\172\311\001\225\301
\225\121\350\253\054\370\261\206\040\351\077\313\065\133\322\027
\351\052\376\203\023\027\100\356\210\142\145\133\325\073\140\351
\173\074\270\311\325\177\066\002\045\252\150\302\061\025\267\060
\145\353\177\035\110\171\261\317\071\342\102\200\026\323\365\223

\043\374\114\227\311\132\067\154\174\042\330\112\315\322\216\066
\203\071\221\220\020\310\361\311\065\176\077\270\323\201\306\040
\144\032\266\120\302\041\244\170\334\320\057\073\144\223\164\360
\226\220\361\357\373\011\132\064\100\226\360\066\022\301\243\164
\214\223\176\101\336\167\213\354\206\331\322\017\077\055\321\314
\100\242\211\146\110\036\040\263\234\043\131\163\251\104\163\274
\044\171\220\126\067\263\306\051\176\243\017\361\051\071\357\176
\134\050\062\160\065\254\332\270\310\165\146\374\233\114\071\107
\216\033\157\233\115\002\124\042\063\357\141\272\236\051\204\357
\116\113\063\107\166\227\152\313\176\137\375\025\246\236\102\103
\133\146\132\212\210\015\367\026\271\077\121\145\053\146\152\213
\321\070\122\242\326\106\021\372\374\232\034\164\236\217\227\013
\002\117\144\306\365\150\323\113\055\377\244\067\036\213\077\277
\104\276\141\106\241\204\075\010\047\114\201\040\167\211\010\352
\147\100\136\154\010\121\137\064\132\214\226\150\315\327\367\211
\302\034\323\062\000\257\122\313\323\140\133\052\072\107\176\153
\060\063\241\142\051\177\112\271\341\055\347\024\043\016\016\030
\107\341\171\374\025\125\320\261\374\045\161\143\165\063\034\043
\053\257\134\331\355\107\167\140\016\073\017\036\322\300\334\144
\005\211\374\170\326\134\054\046\103\251
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "AC Raíz Certicámara S.A."
Issuer: CN=AC Raíz Certicámara S.A.,O=Sociedad Cameral de Certificación Digital - Certicámara S.A.,C=CO
Serial Number:07:7e:52:93:7b:e0:15:e3:57:f0:69:8c:cb:ec:0c
Subject: CN=AC Raíz Certicámara S.A.,O=Sociedad Cameral de Certificación Digital - Certicámara S.A.,C=CO
Not Valid Before: Mon Nov 27 20:46:29 2006
Not Valid After: Tue Apr 02 21:42:02 2030
Fingerprint (MD5): 93:2a:3e:f6:fd:23:69:0d:71:20:d4:2b:47:99:2b:a6
Fingerprint (SHA1): cb:a1:c5:f8:b0:e3:5e:b8:b9:45:12:d3:f9:34:a2:e9:06:10:d3:36
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC Raíz Certicámara S.A."
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\313\241\305\370\260\343\136\270\271\105\022\323\371\064\242\351
\006\020\323\066
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\223\052\076\366\375\043\151\015\161\040\324\053\107\231\053\246
END
CKA_ISSUER MULTILINE_OCTAL
\060\173\061\013\060\011\006\003\125\004\006\023\002\103\117\061

\107\060\105\006\003\125\004\012\014\076\123\157\143\151\145\144
\141\144\040\103\141\155\145\162\141\154\040\144\145\040\103\145
\162\164\151\146\151\143\141\143\151\303\263\156\040\104\151\147
\151\164\141\154\040\055\040\103\145\162\164\151\143\303\241\155
\141\162\141\040\123\056\101\056\061\043\060\041\006\003\125\004
\003\014\032\101\103\040\122\141\303\255\172\040\103\145\162\164
\151\143\303\241\155\141\162\141\040\123\056\101\056
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\017\007\176\122\223\173\340\025\343\127\360\151\214\313\354
\014
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Cisco Root CA 2048"
Issuer: CN=Cisco Root CA 2048,O=Cisco Systems
Serial Number:5f:f8:7b:28:2b:54:dc:8d:42:a3:15:b5:68:c9:ad:ff
Subject: CN=Cisco Root CA 2048,O=Cisco Systems
Not Valid Before: Fri May 14 20:17:12 2004
Not Valid After: Mon May 14 20:25:42 2029
Fingerprint (MD5): be:39:5a:be:07:8a:b1:12:17:25:cc:1d:46:34:3c:b2
Fingerprint (SHA1): de:99:0c:ed:99:e0:43:1f:60:ed:c3:93:7e:7c:d5:bf:0e:d9:e5:fa
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Cisco Root CA 2048"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\065\061\026\060\024\006\003\125\004\012\023\015\103\151\163
\143\157\040\123\171\163\164\145\155\163\061\033\060\031\006\003
\125\004\003\023\022\103\151\163\143\157\040\122\157\157\164\040
\103\101\040\062\060\064\070
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\065\061\026\060\024\006\003\125\004\012\023\015\103\151\163
\143\157\040\123\171\163\164\145\155\163\061\033\060\031\006\003
\125\004\003\023\022\103\151\163\143\157\040\122\157\157\164\040
\103\101\040\062\060\064\070
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\137\370\173\050\053\124\334\215\102\243\025\265\150\311
\255\377

END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\103\060\202\002\053\240\003\002\001\002\002\020\137
\370\173\050\053\124\334\215\102\243\025\265\150\311\255\377\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\065
\061\026\060\024\006\003\125\004\012\023\015\103\151\163\143\157
\040\123\171\163\164\145\155\163\061\033\060\031\006\003\125\004
\003\023\022\103\151\163\143\157\040\122\157\157\164\040\103\101
\040\062\060\064\070\060\036\027\015\060\064\060\065\061\064\062
\060\061\067\061\062\132\027\015\062\071\060\065\061\064\062\060
\062\065\064\062\132\060\065\061\026\060\024\006\003\125\004\012
\023\015\103\151\163\143\157\040\123\171\163\164\145\155\163\061
\033\060\031\006\003\125\004\003\023\022\103\151\163\143\157\040
\122\157\157\164\040\103\101\040\062\060\064\070\060\202\001\040
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\001\015\000\060\202\001\010\002\202\001\001\000\260\232\271
\253\247\257\012\167\247\342\161\266\264\146\142\224\170\210\107
\306\142\125\204\100\062\277\300\253\056\245\034\161\326\274\156
\173\250\252\272\156\322\025\210\110\105\235\242\374\203\320\314
\271\214\340\046\150\160\112\170\337\041\027\236\364\141\005\311
\025\310\317\026\332\065\141\211\224\103\250\204\250\061\230\170
\233\271\116\157\054\123\022\154\315\035\255\053\044\273\061\304
\053\377\203\104\157\266\075\044\167\011\352\277\052\250\037\152
\126\366\040\017\021\124\227\201\165\247\045\316\131\152\202\145
\357\267\352\347\342\215\165\213\156\362\335\117\246\136\142\234
\317\020\012\144\320\116\155\316\053\314\133\365\140\245\047\107
\215\151\364\177\316\033\160\336\160\033\040\326\156\315\246\001
\250\074\022\322\251\077\240\153\136\273\216\040\213\172\221\343
\265\150\356\240\347\304\001\164\250\123\013\053\112\232\017\145
\022\016\202\115\216\143\375\357\353\233\032\333\123\246\023\140
\257\302\175\327\307\154\027\045\324\163\373\107\144\120\201\200
\224\114\341\277\256\113\034\337\222\355\056\005\337\002\001\003
\243\121\060\117\060\013\006\003\125\035\017\004\004\003\002\001
\206\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\035\006\003\125\035\016\004\026\004\024\047\363\310
\025\036\156\232\002\011\026\255\053\240\211\140\137\332\173\057
\252\060\020\006\011\053\006\001\004\001\202\067\025\001\004\003
\002\001\000\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\003\202\001\001\000\235\235\204\204\243\101\251\174\167
\014\267\123\312\116\104\120\142\357\124\174\323\165\027\034\350
\340\306\110\113\266\376\114\072\031\201\126\260\126\356\031\226
\142\252\132\243\144\301\366\116\124\063\306\167\376\305\034\272
\345\135\045\312\365\360\223\232\203\021\056\346\313\370\164\105
\376\347\005\270\253\347\337\313\113\341\067\204\332\271\213\227
\160\036\360\342\213\327\260\330\016\235\261\151\326\052\221\173
\251\111\117\176\346\216\225\330\203\047\074\325\150\111\016\324
\235\366\056\353\247\276\353\060\244\254\037\104\374\225\253\063
\006\373\175\140\012\336\264\212\143\260\234\251\362\244\271\123

\001\207\320\150\244\047\177\253\377\351\372\311\100\070\210\147
\264\071\306\204\157\127\311\123\333\272\216\356\300\103\262\370
\011\203\156\377\146\317\076\357\027\263\130\030\045\011\064\136
\343\313\326\024\266\354\362\222\157\164\344\057\201\052\325\222
\221\340\340\227\074\062\150\005\205\113\321\367\127\342\122\035
\223\032\124\237\005\160\300\112\161\140\036\103\013\140\036\376
\243\316\201\031\341\013\065
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Cisco Root CA 2048"
Issuer: CN=Cisco Root CA 2048,O=Cisco Systems
Serial Number:5f:f8:7b:28:2b:54:dc:8d:42:a3:15:b5:68:c9:ad:ff
Subject: CN=Cisco Root CA 2048,O=Cisco Systems
Not Valid Before: Fri May 14 20:17:12 2004
Not Valid After: Mon May 14 20:25:42 2029
Fingerprint (MD5): be:39:5a:be:07:8a:b1:12:17:25:cc:1d:46:34:3c:b2
Fingerprint (SHA1): de:99:0c:ed:99:e0:43:1f:60:ed:c3:93:7e:7c:d5:bf:0e:d9:e5:fa
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Cisco Root CA 2048"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\336\231\014\355\231\340\103\037\140\355\303\223\176\174\325\277
\016\331\345\372
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\276\071\132\276\007\212\261\022\027\045\314\035\106\064\074\262
END
CKA_ISSUER MULTILINE_OCTAL
\060\065\061\026\060\024\006\003\125\004\012\023\015\103\151\163
\143\157\040\123\171\163\164\145\155\163\061\033\060\031\006\003
\125\004\003\023\022\103\151\163\143\157\040\122\157\157\164\040
\103\101\040\062\060\064\070
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\137\370\173\050\053\124\334\215\102\243\025\265\150\311
\255\377
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "CA Disig"
Issuer: CN=CA Disig,O=Disig a.s.,L=Bratislava,C=SK
Serial Number: 1 (0x1)
Subject: CN=CA Disig,O=Disig a.s.,L=Bratislava,C=SK
Not Valid Before: Wed Mar 22 01:39:34 2006
Not Valid After: Tue Mar 22 01:39:34 2016
Fingerprint (MD5): 3f:45:96:39:e2:50:87:f7:bb:fe:98:0c:3c:20:98:e6
Fingerprint (SHA1): 2a:c8:d5:8b:57:ce:bf:2f:49:af:f2:fc:76:8f:51:14:62:90:7a:41
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CA Disig"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\056\163\056\061\021\060\017\006\003\125
\004\003\023\010\103\101\040\104\151\163\151\147
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\056\163\056\061\021\060\017\006\003\125
\004\003\023\010\103\101\040\104\151\163\151\147
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\017\060\202\002\367\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\112\061\013\060\011\006\003\125\004\006\023\002\123\113\061\023
\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163\154
\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104\151
\163\151\147\040\141\056\163\056\061\021\060\017\006\003\125\004
\003\023\010\103\101\040\104\151\163\151\147\060\036\027\015\060
\066\060\063\062\062\060\061\063\071\063\064\132\027\015\061\066
\060\063\062\062\060\061\063\071\063\064\132\060\112\061\013\060
\011\006\003\125\004\006\023\002\123\113\061\023\060\021\006\003
\125\004\007\023\012\102\162\141\164\151\163\154\141\166\141\061
\023\060\021\006\003\125\004\012\023\012\104\151\163\151\147\040
\141\056\163\056\061\021\060\017\006\003\125\004\003\023\010\103
\101\040\104\151\163\151\147\060\202\001\042\060\015\006\011\052

\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060
\202\001\012\002\202\001\001\000\222\366\061\301\175\210\375\231
\001\251\330\173\362\161\165\361\061\306\363\165\146\372\121\050
\106\204\227\170\064\274\154\374\274\105\131\210\046\030\112\304
\067\037\241\112\104\275\343\161\004\365\104\027\342\077\374\110
\130\157\134\236\172\011\272\121\067\042\043\146\103\041\260\074
\144\242\370\152\025\016\077\353\121\341\124\251\335\006\231\327
\232\074\124\213\071\003\077\017\305\316\306\353\203\162\002\250
\037\161\363\055\370\165\010\333\142\114\350\372\316\371\347\152
\037\266\153\065\202\272\342\217\026\222\175\005\014\154\106\003
\135\300\355\151\277\072\301\212\240\350\216\331\271\105\050\207
\010\354\264\312\025\276\202\335\265\104\213\055\255\206\014\150
\142\155\205\126\362\254\024\143\072\306\321\231\254\064\170\126
\113\317\266\255\077\214\212\327\004\345\343\170\114\365\206\252
\365\217\372\075\154\161\243\055\312\147\353\150\173\156\063\251
\014\202\050\250\114\152\041\100\025\040\014\046\133\203\302\251
\026\025\300\044\202\135\053\026\255\312\143\366\164\000\260\337
\103\304\020\140\126\147\143\105\002\003\001\000\001\243\201\377
\060\201\374\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024\215
\262\111\150\235\162\010\045\271\300\047\365\120\223\126\110\106
\161\371\217\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\006\060\066\006\003\125\035\021\004\057\060\055\201\023
\143\141\157\160\145\162\141\164\157\162\100\144\151\163\151\147
\056\163\153\206\026\150\164\164\160\072\057\057\167\167\167\056
\144\151\163\151\147\056\163\153\057\143\141\060\146\006\003\125
\035\037\004\137\060\135\060\055\240\053\240\051\206\047\150\164
\164\160\072\057\057\167\167\167\056\144\151\163\151\147\056\163
\153\057\143\141\057\143\162\154\057\143\141\137\144\151\163\151
\147\056\143\162\154\060\054\240\052\240\050\206\046\150\164\164
\160\072\057\057\143\141\056\144\151\163\151\147\056\163\153\057
\143\141\057\143\162\154\057\143\141\137\144\151\163\151\147\056
\143\162\154\060\032\006\003\125\035\040\004\023\060\021\060\017
\006\015\053\201\036\221\223\346\012\000\000\000\001\001\001\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202
\001\001\000\135\064\164\141\114\257\073\330\377\237\155\130\066
\034\075\013\201\015\022\053\106\020\200\375\347\074\047\320\172
\310\251\266\176\164\060\063\243\072\212\173\164\300\171\171\102
\223\155\377\261\051\024\202\253\041\214\057\027\371\077\046\057
\365\131\306\357\200\006\267\232\111\051\354\316\176\161\074\152
\020\101\300\366\323\232\262\174\132\221\234\300\254\133\310\115
\136\367\341\123\377\103\167\374\236\113\147\154\327\363\203\321
\240\340\177\045\337\270\230\013\232\062\070\154\060\240\363\377
\010\025\063\367\120\112\173\076\243\076\040\251\334\057\126\200
\012\355\101\120\260\311\364\354\262\343\046\104\000\016\157\236
\006\274\042\226\123\160\145\304\120\012\106\153\244\057\047\201
\022\047\023\137\020\241\166\316\212\173\067\352\303\071\141\003
\225\230\072\347\154\210\045\010\374\171\150\015\207\175\142\370

\264\137\373\305\330\114\275\130\274\077\103\133\324\036\001\115
\074\143\276\043\357\214\315\132\120\270\150\124\371\012\231\063
\021\000\341\236\302\106\167\202\365\131\006\214\041\114\207\011
\315\345\250
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "CA Disig"
Issuer: CN=CA Disig,O=Disig a.s.,L=Bratislava,C=SK
Serial Number: 1 (0x1)
Subject: CN=CA Disig,O=Disig a.s.,L=Bratislava,C=SK
Not Valid Before: Wed Mar 22 01:39:34 2006
Not Valid After: Tue Mar 22 01:39:34 2016
Fingerprint (MD5): 3f:45:96:39:e2:50:87:f7:bb:fe:98:0c:3c:20:98:e6
Fingerprint (SHA1): 2a:c8:d5:8b:57:ce:bf:2f:49:af:f2:fc:76:8f:51:14:62:90:7a:41
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CA Disig"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\052\310\325\213\127\316\277\057\111\257\362\374\166\217\121\024
\142\220\172\101
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\077\105\226\071\342\120\207\367\273\376\230\014\074\040\230\346
END
CKA_ISSUER MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\056\163\056\061\021\060\017\006\003\125
\004\003\023\010\103\101\040\104\151\163\151\147
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "InfoNotary CSP Root"
Issuer: C=BG+1.2.840.113549.1.9.1=csp@infonotary.com+OU=InfoNotary CSP Root+DC=root-

ca+O=InfoNotary PLC+CN=InfoNotary CSP Root
Serial Number:1a:af:92:6c:8f:93:af:60
Subject: C=BG+1.2.840.113549.1.9.1=csp@infonotary.com+OU=InfoNotary CSP Root+DC=root-ca+O=InfoNotary PLC+CN=InfoNotary CSP Root
Not Valid Before: Mon Mar 06 17:33:05 2006
Not Valid After: Fri Mar 06 17:33:05 2026
Fingerprint (MD5): e2:d8:f8:67:f4:50:94:35:fc:5e:05:fc:82:22:95:c3
Fingerprint (SHA1): 04:46:c8:bb:9a:69:83:c9:5c:8a:2e:54:64:68:7c:11:15:aa:b7:4a
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "InfoNotary CSP Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\225\061\201\222\060\011\006\003\125\004\006\014\002\102
\107\060\025\006\003\125\004\012\014\016\111\156\146\157\116\157
\164\141\162\171\040\120\114\103\060\025\006\012\011\222\046\211
\223\362\054\144\001\031\026\007\162\157\157\164\055\143\141\060
\032\006\003\125\004\003\014\023\111\156\146\157\116\157\164\141
\162\171\040\103\123\120\040\122\157\157\164\060\032\006\003\125
\004\013\014\023\111\156\146\157\116\157\164\141\162\171\040\103
\123\120\040\122\157\157\164\060\037\006\011\052\206\110\206\367
\015\001\011\001\026\022\143\163\160\100\151\156\146\157\156\157
\164\141\162\171\056\143\157\155
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\225\061\201\222\060\011\006\003\125\004\006\014\002\102
\107\060\025\006\003\125\004\012\014\016\111\156\146\157\116\157
\164\141\162\171\040\120\114\103\060\025\006\012\011\222\046\211
\223\362\054\144\001\031\026\007\162\157\157\164\055\143\141\060
\032\006\003\125\004\003\014\023\111\156\146\157\116\157\164\141
\162\171\040\103\123\120\040\122\157\157\164\060\032\006\003\125
\004\013\014\023\111\156\146\157\116\157\164\141\162\171\040\103
\123\120\040\122\157\157\164\060\037\006\011\052\206\110\206\367
\015\001\011\001\026\022\143\163\160\100\151\156\146\157\156\157
\164\141\162\171\056\143\157\155
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\032\257\222\154\217\223\257\140
END
CKA_VALUE MULTILINE_OCTAL
\060\202\007\304\060\202\005\254\240\003\002\001\002\002\010\032
\257\222\154\217\223\257\140\060\015\006\011\052\206\110\206\367
\015\001\001\005\005\000\060\201\225\061\201\222\060\011\006\003
\125\004\006\014\002\102\107\060\025\006\003\125\004\012\014\016
\111\156\146\157\116\157\164\141\162\171\040\120\114\103\060\025

\006\012\011\222\046\211\223\362\054\144\001\031\026\007\162\157
\157\164\055\143\141\060\032\006\003\125\004\003\014\023\111\156
\146\157\116\157\164\141\162\171\040\103\123\120\040\122\157\157
\164\060\032\006\003\125\004\013\014\023\111\156\146\157\116\157
\164\141\162\171\040\103\123\120\040\122\157\157\164\060\037\006
\011\052\206\110\206\367\015\001\011\001\026\022\143\163\160\100
\151\156\146\157\156\157\164\141\162\171\056\143\157\155\060\042
\030\017\062\060\060\066\060\063\060\066\061\067\063\063\060\065
\132\030\017\062\060\062\066\060\063\060\066\061\067\063\063\060
\065\132\060\201\225\061\201\222\060\011\006\003\125\004\006\014
\002\102\107\060\025\006\003\125\004\012\014\016\111\156\146\157
\116\157\164\141\162\171\040\120\114\103\060\025\006\012\011\222
\046\211\223\362\054\144\001\031\026\007\162\157\157\164\055\143
\141\060\032\006\003\125\004\003\014\023\111\156\146\157\116\157
\164\141\162\171\040\103\123\120\040\122\157\157\164\060\032\006
\003\125\004\013\014\023\111\156\146\157\116\157\164\141\162\171
\040\103\123\120\040\122\157\157\164\060\037\006\011\052\206\110
\206\367\015\001\011\001\026\022\143\163\160\100\151\156\146\157
\156\157\164\141\162\171\056\143\157\155\060\202\002\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002
\017\000\060\202\002\012\002\202\002\001\000\234\315\244\136\037
\244\176\010\202\117\200\166\301\047\214\107\026\140\237\163\254
\311\221\177\055\020\154\073\224\111\234\102\063\137\224\361\203
\041\011\221\367\222\267\017\070\105\213\224\007\112\253\376\077
\066\065\133\321\325\122\070\102\106\350\107\307\112\120\063\310
\344\340\163\266\220\232\272\243\210\070\323\053\102\300\156\337
\242\023\027\362\117\271\347\362\041\335\145\372\246\375\122\302
\140\262\313\117\067\275\257\047\216\151\153\062\100\123\131\365
\362\061\166\210\006\155\150\237\060\274\267\201\034\216\147\143
\303\005\145\367\063\366\131\251\253\263\212\107\013\024\023\307
\066\335\042\373\370\104\064\065\101\050\300\201\272\116\265\161
\023\257\003\250\111\012\056\244\233\141\167\153\035\044\322\245
\361\055\321\107\136\202\377\110\203\260\025\230\107\336\166\373
\117\116\300\277\124\111\146\274\117\001\321\174\072\145\376\305
\254\160\133\305\025\033\162\245\175\246\133\073\027\303\276\303
\077\135\022\177\147\055\166\107\014\213\277\026\043\265\203\162
\315\200\315\350\272\257\136\150\063\070\324\220\355\156\322\351
\126\004\044\241\371\276\154\136\312\236\043\040\222\053\232\015
\113\115\343\242\110\217\276\355\252\016\214\276\251\070\160\271
\020\177\062\135\200\047\132\003\340\324\107\063\045\132\166\251
\203\331\230\100\355\177\165\002\357\356\141\221\254\061\076\200
\323\064\113\360\302\116\065\060\111\136\267\051\350\175\041\260
\377\052\171\234\064\061\031\146\063\040\141\032\057\260\202\325
\261\147\123\220\015\235\052\227\050\156\267\146\077\032\177\246
\304\232\150\226\346\146\133\172\067\337\132\167\025\340\331\343
\174\263\262\320\325\150\333\076\035\130\037\216\312\230\164\143
\277\324\175\066\150\356\320\057\244\052\362\210\057\167\303\022
\077\215\250\045\054\004\151\130\246\313\264\071\361\210\320\246

\336\226\316\163\102\106\323\243\371\361\330\216\212\235\156\212
\300\122\117\105\267\160\376\034\173\075\015\226\334\371\220\226
\155\306\030\241\102\302\266\334\331\043\037\227\223\233\017\031
\371\260\267\077\045\164\275\202\123\354\015\057\155\326\077\122
\057\330\166\320\045\275\320\271\365\275\017\002\003\001\000\001
\243\202\002\020\060\202\002\014\060\016\006\003\125\035\017\001
\001\377\004\004\003\002\001\006\060\104\006\010\053\006\001\005
\005\007\001\001\004\070\060\066\060\064\006\010\053\006\001\005
\005\007\060\001\206\050\150\164\164\160\072\057\057\157\143\163
\160\056\151\156\146\157\156\157\164\141\162\171\056\143\157\155
\057\162\145\163\160\157\156\144\145\162\056\143\147\151\060\126
\006\010\053\006\001\005\005\007\001\013\004\112\060\110\060\106
\006\010\053\006\001\005\005\007\060\005\206\072\154\144\141\160
\072\057\057\154\144\141\160\056\151\156\146\157\156\157\164\141
\162\171\056\143\157\155\057\144\143\075\162\157\157\164\055\143
\141\054\144\143\075\151\156\146\157\156\157\164\141\162\171\054
\144\143\075\143\157\155\060\201\252\006\003\125\035\040\004\201
\242\060\201\237\060\157\006\011\053\006\001\004\001\201\255\000
\001\060\142\060\072\006\010\053\006\001\005\005\007\002\001\026
\056\150\164\164\160\072\057\057\162\145\160\157\163\151\164\157
\162\171\056\151\156\146\157\156\157\164\141\162\171\056\143\157
\155\057\143\160\163\057\161\143\160\163\056\150\164\155\154\060
\044\006\010\053\006\001\005\005\007\002\002\060\030\032\026\111
\156\146\157\116\157\164\141\162\171\040\103\123\120\040\122\157
\157\164\040\103\101\060\054\006\011\053\006\001\004\001\201\255
\000\000\060\037\060\035\006\010\053\006\001\005\005\007\002\001
\026\021\150\164\164\160\072\057\057\167\167\167\056\143\162\143
\056\142\147\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\177\006\003\125\035\021\004\170\060\166\244
\164\060\162\061\160\060\013\006\003\125\004\021\014\004\061\060
\060\060\060\014\006\003\125\004\007\014\005\123\157\146\151\141
\060\023\006\003\125\004\024\014\014\053\063\065\071\062\071\070
\067\065\067\061\067\060\033\006\006\125\004\012\144\001\001\014
\021\061\063\061\062\067\066\070\062\067\072\102\125\114\123\124
\101\124\060\041\006\011\052\206\110\206\367\015\001\011\010\014
\024\061\066\040\111\166\141\156\040\126\141\163\157\166\040\123
\164\162\145\145\164\060\035\006\003\125\035\016\004\026\004\024
\335\324\116\147\103\077\323\352\142\350\332\211\156\216\073\156
\013\273\225\237\060\015\006\011\052\206\110\206\367\015\001\001
\005\005\000\003\202\002\001\000\030\233\374\015\301\370\161\254
\324\314\024\265\047\011\301\130\112\064\100\346\233\145\312\340
\361\213\122\075\226\176\211\036\336\250\025\372\335\224\056\203
\306\066\135\033\041\251\066\016\134\075\111\210\014\123\041\135
\037\155\111\066\157\234\120\353\333\144\317\211\272\257\136\255
\024\104\207\142\357\060\174\300\226\337\160\071\313\073\121\356
\053\374\010\005\207\126\315\063\045\340\200\032\340\246\347\015
\103\114\000\043\103\126\242\016\031\124\342\215\321\015\026\271
\132\157\233\167\345\034\251\203\213\050\361\341\062\166\137\107

\260\232\066\352\262\157\335\206\061\130\376\006\151\260\303\140
\246\373\330\050\324\010\335\361\156\116\032\275\315\267\254\276
\042\207\026\111\261\070\000\325\214\103\051\347\051\153\053\022
\142\131\252\103\360\264\162\210\070\326\002\137\037\332\044\222
\215\215\174\374\037\175\070\220\130\013\037\034\267\034\273\066
\047\055\132\034\307\061\335\264\053\235\275\107\241\061\267\011
\021\342\315\157\247\156\364\270\243\051\217\363\140\277\247\035
\340\117\227\045\045\012\060\111\307\376\172\071\104\324\323\145
\357\210\135\377\331\356\123\071\274\072\104\250\061\073\045\227
\173\232\277\321\335\153\342\327\022\152\373\062\273\321\330\216
\363\226\263\217\220\352\170\130\301\012\333\245\045\276\212\003
\037\345\222\322\274\177\244\162\344\353\126\172\251\372\174\270
\361\240\277\046\376\112\064\317\045\252\144\304\273\173\355\030
\345\114\054\157\101\145\355\340\273\075\054\165\125\157\344\025
\006\305\113\154\223\366\017\125\314\223\165\205\141\046\003\322
\314\225\313\172\020\040\047\126\172\277\165\130\334\365\015\226
\331\112\007\204\330\042\233\020\321\326\006\156\026\007\003\263
\257\171\343\240\027\272\270\103\010\102\235\074\073\047\314\174
\021\324\176\061\363\146\121\002\021\162\072\243\351\162\275\225
\135\241\025\177\107\023\071\225\262\265\256\366\361\141\164\060
\170\307\146\001\323\262\160\227\010\311\015\044\364\104\052\160
\246\235\057\022\144\006\156\212\215\040\343\176\332\361\124\277
\015\024\254\051\276\175\177\177\271\153\105\002\121\147\025\131
\242\016\041\047\311\202\147\061
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "InfoNotary CSP Root"
Issuer: C=BG+1.2.840.113549.1.9.1=csp@infonotary.com+OU=InfoNotary CSP Root+DC=root-ca+O=InfoNotary PLC+CN=InfoNotary CSP Root
Serial Number:1a:af:92:6c:8f:93:af:60
Subject: C=BG+1.2.840.113549.1.9.1=csp@infonotary.com+OU=InfoNotary CSP Root+DC=root-ca+O=InfoNotary PLC+CN=InfoNotary CSP Root
Not Valid Before: Mon Mar 06 17:33:05 2006
Not Valid After: Fri Mar 06 17:33:05 2026
Fingerprint (MD5): e2:d8:f8:67:f4:50:94:35:fc:5e:05:fc:82:22:95:c3
Fingerprint (SHA1): 04:46:c8:bb:9a:69:83:c9:5c:8a:2e:54:64:68:7c:11:15:aa:b7:4a
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "InfoNotary CSP Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\004\106\310\273\232\151\203\311\134\212\056\124\144\150\174\021
\025\252\267\112

END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\342\330\370\147\364\120\224\065\374\136\005\374\202\042\225\303
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\225\061\201\222\060\011\006\003\125\004\006\014\002\102
\107\060\025\006\003\125\004\012\014\016\111\156\146\157\116\157
\164\141\162\171\040\120\114\103\060\025\006\012\011\222\046\211
\223\362\054\144\001\031\026\007\162\157\157\164\055\143\141\060
\032\006\003\125\004\003\014\023\111\156\146\157\116\157\164\141
\162\171\040\103\123\120\040\122\157\157\164\060\032\006\003\125
\004\013\014\023\111\156\146\157\116\157\164\141\162\171\040\103
\123\120\040\122\157\157\164\060\037\006\011\052\206\110\206\367
\015\001\011\001\026\022\143\163\160\100\151\156\146\157\156\157
\164\141\162\171\056\143\157\155
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\032\257\222\154\217\223\257\140
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "UCA Global Root"
Issuer: CN=UCA Global Root,O=UniTrust,C=CN
Serial Number: 8 (0x8)
Subject: CN=UCA Global Root,O=UniTrust,C=CN
Not Valid Before: Tue Jan 01 00:00:00 2008
Not Valid After: Thu Dec 31 00:00:00 2037
Fingerprint (MD5): c1:d9:51:c0:84:b8:6a:75:e8:2f:d7:d6:5f:7e:ac:46
Fingerprint (SHA1): 0b:97:2c:9e:a6:e7:cc:58:d9:3b:20:bf:71:ec:41:2e:72:09:fa:bf
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Global Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\072\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\023\010\125\156\151\124\162\165
\163\164\061\030\060\026\006\003\125\004\003\023\017\125\103\101
\040\107\154\157\142\141\154\040\122\157\157\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\072\061\013\060\011\006\003\125\004\006\023\002\103\116\061

\021\060\017\006\003\125\004\012\023\010\125\156\151\124\162\165
\163\164\061\030\060\026\006\003\125\004\003\023\017\125\103\101
\040\107\154\157\142\141\154\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\010
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\222\060\202\003\172\240\003\002\001\002\002\001\010
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\072\061\013\060\011\006\003\125\004\006\023\002\103\116\061\021
\060\017\006\003\125\004\012\023\010\125\156\151\124\162\165\163
\164\061\030\060\026\006\003\125\004\003\023\017\125\103\101\040
\107\154\157\142\141\154\040\122\157\157\164\060\036\027\015\060
\070\060\061\060\061\060\060\060\060\060\060\132\027\015\063\067
\061\062\063\061\060\060\060\060\060\060\060\132\060\072\061\013\060
\011\006\003\125\004\006\023\002\103\116\061\021\060\017\006\003
\125\004\012\023\010\125\156\151\124\162\165\163\164\061\030\060
\026\006\003\125\004\003\023\017\125\103\101\040\107\154\157\142
\141\154\040\122\157\157\164\060\202\002\042\060\015\006\011\052
\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060
\202\002\012\002\202\002\001\000\332\263\345\006\120\077\366\163
\367\304\062\277\106\245\045\142\063\207\260\150\376\247\337\210
\003\143\175\002\226\375\353\207\311\356\342\010\273\235\273\273
\344\101\217\307\060\211\017\155\044\300\004\154\024\224\201\115
\240\015\164\146\363\360\205\257\370\144\031\336\271\351\201\223
\320\050\205\231\107\102\112\054\074\070\047\112\314\377\371\154
\031\327\265\363\357\233\256\133\064\006\327\217\242\023\006\234
\212\204\102\325\263\243\220\150\155\201\220\356\115\204\354\114
\160\116\055\336\044\071\316\031\000\103\223\170\371\010\206\035
\103\321\364\162\274\005\300\147\372\300\121\322\311\205\007\044
\256\071\036\172\315\101\322\066\253\141\352\053\253\360\040\125
\231\074\155\055\034\056\056\165\226\330\162\227\340\014\312\151
\163\356\165\053\025\011\340\216\155\273\332\023\377\106\250\350
\000\014\254\007\057\035\271\272\271\321\240\367\231\236\164\134
\031\005\146\061\317\076\052\122\376\157\237\363\271\275\371\301
\201\365\067\332\056\114\201\045\135\366\331\224\232\323\065\213
\040\050\067\137\121\353\175\142\307\251\223\321\371\320\064\313
\251\047\046\054\050\220\222\073\125\143\267\027\016\124\163\253
\257\174\354\072\253\160\063\254\041\373\042\046\263\206\254\043
\251\327\177\155\313\010\040\362\257\100\365\377\104\107\161\335
\047\335\023\050\241\352\166\071\371\020\240\240\115\100\244\047
\262\131\025\053\154\055\044\267\044\143\170\367\103\030\172\017
\115\021\343\350\254\207\102\215\347\130\161\244\253\156\242\300
\227\174\273\343\023\113\312\333\273\153\010\371\151\264\004\162
\325\303\106\271\167\352\377\272\373\351\360\072\014\065\366\217
\017\256\006\204\026\335\224\125\324\357\312\047\267\003\074\305
\034\046\052\365\074\250\245\225\233\206\361\212\211\147\370\307

\014\146\261\355\101\277\202\246\000\150\072\042\064\356\036\353
\345\157\211\164\117\152\252\152\250\127\147\122\324\040\141\301
\316\123\313\375\044\177\137\046\337\241\010\151\226\240\236\376
\111\103\342\323\352\332\304\361\210\061\041\156\034\341\315\363
\165\016\040\104\026\314\175\163\164\065\105\054\073\201\324\040
\354\266\011\214\076\110\262\111\002\003\001\000\001\243\201\242
\060\201\237\060\013\006\003\125\035\017\004\004\003\002\001\006
\060\014\006\003\125\035\023\004\005\060\003\001\001\377\060\143
\006\003\125\035\045\004\134\060\132\006\010\053\006\001\005\005
\007\003\001\006\010\053\006\001\005\005\007\003\002\006\010\053
\006\001\005\005\007\003\003\006\010\053\006\001\005\005\007\003
\004\006\010\053\006\001\005\005\007\003\005\006\010\053\006\001
\005\005\007\003\006\006\010\053\006\001\005\005\007\003\007\006
\010\053\006\001\005\005\007\003\010\006\010\053\006\001\005\005
\007\003\011\060\035\006\003\125\035\016\004\026\004\024\331\303
\323\370\200\222\147\314\135\322\072\242\327\161\242\264\304\070
\200\055\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\000\003\202\002\001\000\320\210\171\312\010\252\367\013\064\240
\116\011\302\351\176\065\110\211\160\204\043\057\121\303\053\057
\136\333\123\153\133\165\010\052\124\272\062\016\325\306\161\205
\261\227\111\200\366\204\320\360\272\267\161\224\310\171\153\246
\305\104\350\102\242\255\045\055\127\057\346\326\061\051\372\031
\211\124\051\176\267\176\107\066\151\055\156\062\274\324\165\332
\102\163\270\116\345\203\100\163\262\135\337\324\104\163\246\142
\013\333\252\156\005\214\310\177\106\117\071\205\220\235\274\033
\124\051\254\245\327\376\345\130\126\127\155\054\231\241\111\041
\325\141\306\214\141\341\165\044\301\001\335\055\033\066\303\057
\022\314\013\326\170\213\165\200\351\101\271\210\261\312\074\251
\026\306\116\025\343\162\066\366\324\240\101\205\257\212\145\160
\115\265\104\020\120\354\355\337\155\346\331\306\300\022\361\113
\072\057\163\351\074\251\356\033\252\057\065\245\233\237\115\305
\064\204\137\046\024\151\263\043\261\211\162\024\370\351\115\121
\042\003\377\112\206\304\034\350\173\171\012\333\107\045\201\176
\374\064\204\254\131\270\130\103\344\075\103\011\124\164\302\320
\375\331\357\156\131\367\162\140\231\166\157\365\047\247\273\203
\244\112\201\354\051\201\364\167\113\341\102\022\125\324\206\052
\022\266\360\125\233\001\056\335\366\250\343\031\303\316\107\057
\300\170\141\030\132\307\145\374\235\106\133\127\334\174\016\273
\226\203\020\174\125\030\011\004\256\321\367\213\052\076\240\346
\120\326\060\066\327\347\213\070\123\354\111\104\340\317\244\337
\361\123\173\213\132\266\366\021\220\113\326\165\363\376\002\363
\051\257\360\043\162\175\024\355\251\135\337\172\201\236\233\222
\042\374\036\370\001\105\101\227\307\153\001\141\276\063\150\362
\240\145\204\146\274\340\052\244\150\323\161\354\307\010\336\243
\303\311\066\112\064\361\027\342\200\257\040\041\223\224\036\346
\025\323\124\142\361\265\070\057\343\314\271\147\004\251\272\345
\356\371\020\156\313\056\176\023\257\222\024\376\363\047\163\173
\070\374\163\155\271\271\210\366\156\214\013\365\374\377\011\016

\263\055\136\173\165\343\222\044\342\346\341\130\076\113\050\003
\165\153\030\233\107\014
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "UCA Global Root"
Issuer: CN=UCA Global Root,O=UniTrust,C=CN
Serial Number: 8 (0x8)
Subject: CN=UCA Global Root,O=UniTrust,C=CN
Not Valid Before: Tue Jan 01 00:00:00 2008
Not Valid After: Thu Dec 31 00:00:00 2037
Fingerprint (MD5): c1:d9:51:c0:84:b8:6a:75:e8:2f:d7:d6:5f:7e:ac:46
Fingerprint (SHA1): 0b:97:2c:9e:a6:e7:cc:58:d9:3b:20:bf:71:ec:41:2e:72:09:fa:bf
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Global Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\013\227\054\236\246\347\314\130\331\073\040\277\161\354\101\056
\162\011\372\277
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\301\331\121\300\204\270\152\165\350\057\327\326\137\176\254\106
END
CKA_ISSUER MULTILINE_OCTAL
\060\072\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\023\010\125\156\151\124\162\165
\163\164\061\030\060\026\006\003\125\004\003\023\017\125\103\101
\040\107\154\157\142\141\154\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\010
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "UCA Root"
Issuer: CN=UCA Root,O=UniTrust,C=CN
Serial Number: 9 (0x9)
Subject: CN=UCA Root,O=UniTrust,C=CN
Not Valid Before: Thu Jan 01 00:00:00 2004

Not Valid After: Mon Dec 31 00:00:00 2029
Fingerprint (MD5): 8f:91:e7:ee:e3:fc:da:86:ca:fc:dc:70:ed:b7:b7:0c
Fingerprint (SHA1): 82:50:be:d5:a2:14:43:3a:66:37:7c:bc:10:ef:83:f6:69:da:3a:67
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\063\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\023\010\125\156\151\124\162\165
\163\164\061\021\060\017\006\003\125\004\003\023\010\125\103\101
\040\122\157\157\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\063\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\023\010\125\156\151\124\162\165
\163\164\061\021\060\017\006\003\125\004\003\023\010\125\103\101
\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\011
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\204\060\202\002\154\240\003\002\001\002\002\001\011
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\063\061\013\060\011\006\003\125\004\006\023\002\103\116\061\021
\060\017\006\003\125\004\012\023\010\125\156\151\124\162\165\163
\164\061\021\060\017\006\003\125\004\003\023\010\125\103\101\040
\122\157\157\164\060\036\027\015\060\064\060\061\060\061\060\060
\060\060\060\060\132\027\015\062\071\061\062\063\061\060\060\060
\060\060\060\132\060\063\061\013\060\011\006\003\125\004\006\023
\002\103\116\061\021\060\017\006\003\125\004\012\023\010\125\156
\151\124\162\165\163\164\061\021\060\017\006\003\125\004\003\023
\010\125\103\101\040\122\157\157\164\060\202\001\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017
\000\060\202\001\012\002\202\001\001\000\263\135\007\312\206\046
\175\153\342\373\070\011\016\314\202\302\152\032\000\242\025\137
\326\351\324\001\267\126\003\001\131\217\365\070\151\044\166\302
\136\053\305\366\053\277\257\373\101\375\017\132\374\253\327\203
\160\115\060\230\321\236\262\166\273\222\326\273\351\020\050\151
\050\066\104\350\361\054\327\130\174\044\326\177\002\072\360\201
\153\141\140\077\364\063\336\155\345\352\050\122\117\374\251\035
\143\174\013\272\352\256\304\150\106\344\336\217\301\247\262\266
\130\132\155\035\054\331\214\072\267\210\313\205\324\367\350\003
\136\375\262\115\120\350\326\037\377\256\002\077\213\117\226\041

\074\233\327\045\311\035\077\373\230\261\131\344\360\251\073\257
\263\315\205\054\342\140\106\314\157\216\240\353\360\064\305\361
\102\030\140\256\022\355\106\165\034\345\330\251\226\132\276\336
\132\326\170\147\226\133\223\167\120\362\156\033\336\226\121\112
\246\326\113\103\165\041\146\215\167\354\002\204\166\134\104\020
\266\035\141\154\344\243\040\175\267\215\272\017\221\165\307\215
\337\274\002\140\250\051\250\275\075\103\002\003\001\000\001\243
\201\242\060\201\237\060\013\006\003\125\035\017\004\004\003\002
\001\006\060\014\006\003\125\035\023\004\005\060\003\001\001\377
\060\143\006\003\125\035\045\004\134\060\132\006\010\053\006\001
\005\005\007\003\001\006\010\053\006\001\005\005\007\003\002\006
\010\053\006\001\005\005\007\003\003\006\010\053\006\001\005\005
\007\003\004\006\010\053\006\001\005\005\007\003\005\006\010\053
\006\001\005\005\007\003\006\006\010\053\006\001\005\005\007\003
\007\006\010\053\006\001\005\005\007\003\010\006\010\053\006\001
\005\005\007\003\011\060\035\006\003\125\035\016\004\026\004\024
\333\037\065\363\153\114\377\102\061\144\233\315\273\132\036\035
\110\020\267\356\060\015\006\011\052\206\110\206\367\015\001\001
\005\005\000\003\202\001\001\000\070\154\267\210\361\255\372\130
\067\164\321\350\160\336\234\047\131\313\344\025\327\240\303\140
\327\210\200\004\305\060\114\075\324\032\353\006\136\131\107\346
\274\146\313\340\010\374\350\065\354\142\175\312\300\332\301\170
\257\345\106\157\373\211\202\043\217\366\327\123\146\125\240\336
\045\022\073\161\066\026\125\022\166\373\075\370\124\133\061\272
\000\006\370\175\125\345\247\166\203\252\134\112\227\246\052\050
\337\275\306\154\013\043\225\216\063\177\036\136\100\037\023\124
\054\234\345\265\016\335\027\050\256\153\001\323\122\051\365\042
\037\220\071\364\334\142\150\360\074\206\107\354\270\005\105\273
\267\014\226\224\306\147\313\043\161\320\216\164\042\326\101\353
\003\250\266\352\276\304\001\022\265\263\135\100\166\006\040\324
\144\270\051\106\006\212\316\037\223\232\020\356\373\252\132\264
\334\057\325\053\313\366\327\005\204\230\005\221\013\204\367\075
\372\326\371\172\372\054\025\352\066\202\103\267\267\270\343\363
\161\001\355\103\103\242\005\105\303\050\005\007\065\343\001\245
\070\036\200\324\327\303\331\336
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "UCA Root"
Issuer: CN=UCA Root,O=UniTrust,C=CN
Serial Number: 9 (0x9)
Subject: CN=UCA Root,O=UniTrust,C=CN
Not Valid Before: Thu Jan 01 00:00:00 2004
Not Valid After: Mon Dec 31 00:00:00 2029
Fingerprint (MD5): 8f:91:e7:ee:e3:fc:da:86:ca:fc:dc:70:ed:b7:b7:0c

Fingerprint (SHA1): 82:50:be:d5:a2:14:43:3a:66:37:7c:bc:10:ef:83:f6:69:da:3a:67
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\202\120\276\325\242\024\103\072\146\067\174\274\020\357\203\366
\151\332\072\147
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\217\221\347\356\343\374\332\206\312\374\334\160\355\267\267\014
END
CKA_ISSUER MULTILINE_OCTAL
\060\063\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\023\010\125\156\151\124\162\165
\163\164\061\021\060\017\006\003\125\004\003\023\010\125\103\101
\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\011
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "DigiNotar Root CA"
Issuer: 1.2.840.113549.1.9.1=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
Serial Number:0c:76:da:9c:91:0c:4e:2c:9e:fe:15:d0:58:93:3c:4c
Subject: 1.2.840.113549.1.9.1=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
Not Valid Before: Wed May 16 17:19:36 2007
Not Valid After: Mon Mar 31 18:19:21 2025
Fingerprint (MD5): 7a:79:54:4d:07:92:3b:5b:ff:41:f0:0e:c7:39:a2:98
Fingerprint (SHA1): c0:60:ed:44:cb:d8:81:bd:0e:f8:6c:0b:a2:87:dd:cf:81:67:47:8c
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiNotar Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\022\060\020\006\003\125\004\012\023\011\104\151\147\151\116\157
\164\141\162\061\032\060\030\006\003\125\004\003\023\021\104\151
\147\151\116\157\164\141\162\040\122\157\157\164\040\103\101\061
\040\060\036\006\011\052\206\110\206\367\015\001\011\001\026\021

\151\156\146\157\100\144\151\147\151\156\157\164\141\162\056\156
\154
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\022\060\020\006\003\125\004\012\023\011\104\151\147\151\116\157
\164\141\162\061\032\060\030\006\003\125\004\003\023\021\104\151
\147\151\116\157\164\141\162\040\122\157\157\164\040\103\101\061
\040\060\036\006\011\052\206\110\206\367\015\001\011\001\026\021
\151\156\146\157\100\144\151\147\151\156\157\164\141\162\056\156
\154
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\014\166\332\234\221\014\116\054\236\376\025\320\130\223
\074\114
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\212\060\202\003\162\240\003\002\001\002\002\020\014
\166\332\234\221\014\116\054\236\376\025\320\130\223\074\114\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\137
\061\013\060\011\006\003\125\004\006\023\002\116\114\061\022\060
\020\006\003\125\004\012\023\011\104\151\147\151\116\157\164\141
\162\061\032\060\030\006\003\125\004\003\023\021\104\151\147\151
\116\157\164\141\162\040\122\157\157\164\040\103\101\061\040\060
\036\006\011\052\206\110\206\367\015\001\011\001\026\021\151\156
\146\157\100\144\151\147\151\156\157\164\141\162\056\156\154\060
\036\027\015\060\067\060\065\061\066\061\067\061\071\063\066\132
\027\015\062\065\060\063\063\061\061\070\061\071\062\061\132\060
\137\061\013\060\011\006\003\125\004\006\023\002\116\114\061\022
\060\020\006\003\125\004\012\023\011\104\151\147\151\116\157\164
\141\162\061\032\060\030\006\003\125\004\003\023\021\104\151\147
\151\116\157\164\141\162\040\122\157\157\164\040\103\101\061\040
\060\036\006\011\052\206\110\206\367\015\001\011\001\026\021\151
\156\146\157\100\144\151\147\151\156\157\164\141\162\056\156\154
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001
\000\254\260\130\301\000\275\330\041\010\013\053\232\376\156\126
\060\005\237\033\167\220\020\101\134\303\015\207\021\167\216\201
\361\312\174\351\214\152\355\070\164\065\273\332\337\371\273\300
\011\067\264\226\163\201\175\063\032\230\071\367\223\157\225\177
\075\271\261\165\207\272\121\110\350\213\160\076\225\004\305\330
\266\303\026\331\210\260\261\207\035\160\332\206\264\017\024\213
\172\317\020\321\164\066\242\022\173\167\206\112\171\346\173\337
\002\021\150\245\116\206\256\064\130\233\044\023\170\126\042\045
\036\001\213\113\121\161\373\202\314\131\226\151\210\132\150\123
\305\271\015\002\067\313\113\274\146\112\220\176\052\013\005\007
\355\026\137\125\220\165\330\106\311\033\203\342\010\276\361\043

\314\231\035\326\052\017\203\040\025\130\047\202\056\372\342\042
\302\111\261\271\001\201\152\235\155\235\100\167\150\166\116\041
\052\155\204\100\205\116\166\231\174\202\363\363\267\002\131\324
\046\001\033\216\337\255\123\006\321\256\030\335\342\262\072\313
\327\210\070\216\254\133\051\271\031\323\230\371\030\003\317\110
\202\206\146\013\033\151\017\311\353\070\210\172\046\032\005\114
\222\327\044\324\226\362\254\122\055\243\107\325\122\366\077\376
\316\204\006\160\246\252\076\242\362\266\126\064\030\127\242\344
\201\155\347\312\360\152\323\307\221\153\002\203\101\174\025\357
\153\232\144\136\343\320\074\345\261\353\173\135\206\373\313\346
\167\111\315\243\145\334\367\271\234\270\344\013\137\223\317\314
\060\032\062\034\316\034\143\225\245\371\352\341\164\213\236\351
\053\251\060\173\240\030\037\016\030\013\345\133\251\323\321\154
\036\007\147\217\221\113\251\212\274\322\146\252\223\001\210\262
\221\372\061\134\325\246\301\122\010\011\315\012\143\242\323\042
\246\350\241\331\071\006\227\365\156\215\002\220\214\024\173\077
\200\315\033\234\272\304\130\162\043\257\266\126\237\306\172\102
\063\051\007\077\202\311\346\037\005\015\315\114\050\066\213\323
\310\076\034\306\210\357\136\356\211\144\351\035\353\332\211\176
\062\246\151\321\335\314\210\237\321\320\311\146\041\334\006\147
\305\224\172\232\155\142\114\175\314\340\144\200\262\236\107\216
\243\002\003\001\000\001\243\102\060\100\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003\125
\035\016\004\026\004\024\210\150\277\340\216\065\304\073\070\153
\142\367\050\073\204\201\310\014\327\115\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\003\202\002\001\000\073\002
\215\313\074\060\350\156\240\255\362\163\263\137\236\045\023\004
\005\323\366\343\213\273\013\171\316\123\336\344\226\305\321\257
\163\274\325\303\320\100\125\174\100\177\315\033\137\011\325\362
\174\237\150\035\273\135\316\172\071\302\214\326\230\173\305\203
\125\250\325\175\100\312\340\036\367\211\136\143\135\241\023\302
\135\212\266\212\174\000\363\043\303\355\205\137\161\166\360\150
\143\252\105\041\071\110\141\170\066\334\361\103\223\324\045\307
\362\200\145\341\123\002\165\121\374\172\072\357\067\253\204\050
\127\014\330\324\324\231\126\154\343\242\376\131\204\264\061\350
\063\370\144\224\224\121\227\253\071\305\113\355\332\335\200\013
\157\174\051\015\304\216\212\162\015\347\123\024\262\140\101\075
\204\221\061\150\075\047\104\333\345\336\364\372\143\105\310\114
\076\230\365\077\101\272\116\313\067\015\272\146\230\361\335\313
\237\134\367\124\066\202\153\054\274\023\141\227\102\370\170\273
\314\310\242\237\312\360\150\275\153\035\262\337\215\157\007\235
\332\216\147\307\107\036\312\271\277\052\102\221\267\143\123\146
\361\102\243\341\364\132\115\130\153\265\344\244\063\255\134\160
\035\334\340\362\353\163\024\221\232\003\301\352\000\145\274\007
\374\317\022\021\042\054\256\240\275\072\340\242\052\330\131\351
\051\323\030\065\244\254\021\137\031\265\265\033\377\042\112\134
\306\172\344\027\357\040\251\247\364\077\255\212\247\232\004\045

\235\016\312\067\346\120\375\214\102\051\004\232\354\271\317\113
\162\275\342\010\066\257\043\057\142\345\312\001\323\160\333\174
\202\043\054\026\061\014\306\066\007\220\172\261\037\147\130\304
\073\130\131\211\260\214\214\120\263\330\206\313\150\243\304\012
\347\151\113\040\316\301\036\126\113\225\251\043\150\330\060\330
\303\353\260\125\121\315\345\375\053\270\365\273\021\237\123\124
\366\064\031\214\171\011\066\312\141\027\045\027\013\202\230\163
\014\167\164\303\325\015\307\250\022\114\307\247\124\161\107\056
\054\032\175\311\343\053\073\110\336\047\204\247\143\066\263\175
\217\240\144\071\044\015\075\173\207\257\146\134\164\033\113\163
\262\345\214\360\206\231\270\345\305\337\204\301\267\353
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "DigiNotar Root CA"
Issuer: 1.2.840.113549.1.9.1=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
Serial Number:0c:76:da:9c:91:0c:4e:2c:9e:fe:15:d0:58:93:3c:4c
Subject: 1.2.840.113549.1.9.1=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
Not Valid Before: Wed May 16 17:19:36 2007
Not Valid After: Mon Mar 31 18:19:21 2025
Fingerprint (MD5): 7a:79:54:4d:07:92:3b:5b:ff:41:f0:0e:c7:39:a2:98
Fingerprint (SHA1): c0:60:ed:44:cb:d8:81:bd:0e:f8:6c:0b:a2:87:dd:cf:81:67:47:8c
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiNotar Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\300\140\355\104\313\330\201\275\016\370\154\013\242\207\335\317
\201\147\107\214
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\172\171\124\115\007\222\073\133\377\101\360\016\307\071\242\230
END
CKA_ISSUER MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\022\060\020\006\003\125\004\012\023\011\104\151\147\151\116\157
\164\141\162\061\032\060\030\006\003\125\004\003\023\021\104\151
\147\151\116\157\164\141\162\040\122\157\157\164\040\103\101\061
\040\060\036\006\011\052\206\110\206\367\015\001\011\001\026\021
\151\156\146\157\100\144\151\147\151\156\157\164\141\162\056\156
\154
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\014\166\332\234\221\014\116\054\236\376\025\320\130\223

\074\114
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Starfield Services Root Certificate Authority"
Issuer: CN=Starfield Services Root Certificate
Authority,OU=http://certificates.starfieldtech.com/repository/,O=Starfield Technologies\,
Inc.,L=Scottsdale,ST=Arizona,C=US
Serial Number: 0 (0x0)
Subject: CN=Starfield Services Root Certificate
Authority,OU=http://certificates.starfieldtech.com/repository/,O=Starfield Technologies\,
Inc.,L=Scottsdale,ST=Arizona,C=US
Not Valid Before: Mon Jun 02 00:00:00 2008
Not Valid After: Mon Dec 31 23:59:59 2029
Fingerprint (MD5): cf:8f:3b:62:a3:ca:ca:71:1b:a3:e1:cb:48:57:35:1f
Fingerprint (SHA1): 5d:00:38:60:f0:02:ed:82:9d:ea:a4:18:68:f7:88:18:6d:62:12:7f
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Services Root Certificate Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\317\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\072
\060\070\006\003\125\004\013\023\061\150\164\164\160\072\057\057
\143\145\162\164\151\146\151\143\141\164\145\163\056\163\164\141
\162\146\151\145\154\144\164\145\143\150\056\143\157\155\057\162
\145\160\157\163\151\164\157\162\171\057\061\066\060\064\006\003
\125\004\003\023\055\123\164\141\162\146\151\145\154\144\040\123
\145\162\166\151\143\145\163\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\317\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012

\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\072
\060\070\006\003\125\004\013\023\061\150\164\164\160\072\057\057
\143\145\162\164\151\146\151\143\141\164\145\163\056\163\164\141
\162\146\151\145\154\144\164\145\143\150\056\143\157\155\057\162
\145\160\157\163\151\164\157\162\171\057\061\066\060\064\006\003
\125\004\003\023\055\123\164\141\162\146\151\145\154\144\040\123
\145\162\166\151\143\145\163\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\176\060\202\003\146\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\201\317\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157\156
\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157\164
\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012\023
\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150\156
\157\154\157\147\151\145\163\054\040\111\156\143\056\061\072\060
\070\006\003\125\004\013\023\061\150\164\164\160\072\057\057\143
\145\162\164\151\146\151\143\141\164\145\163\056\163\164\141\162
\146\151\145\154\144\164\145\143\150\056\143\157\155\057\162\145
\160\157\163\151\164\157\162\171\057\061\066\060\064\006\003\125
\004\003\023\055\123\164\141\162\146\151\145\154\144\040\123\145
\162\166\151\143\145\163\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164
\171\060\036\027\015\060\070\060\066\060\062\060\060\060\060\060
\060\132\027\015\062\071\061\062\063\061\062\063\065\071\065\071
\132\060\201\317\061\013\060\011\006\003\125\004\006\023\002\125
\123\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172
\157\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143
\157\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004
\012\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143
\150\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061
\072\060\070\006\003\125\004\013\023\061\150\164\164\160\072\057
\057\143\145\162\164\151\146\151\143\141\164\145\163\056\163\164
\141\162\146\151\145\154\144\164\145\143\150\056\143\157\155\057
\162\145\160\157\163\151\164\157\162\171\057\061\066\060\064\006
\003\125\004\003\023\055\123\164\141\162\146\151\145\154\144\040
\123\145\162\166\151\143\145\163\040\122\157\157\164\040\103\145
\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162
\151\164\171\060\202\001\042\060\015\006\011\052\206\110\206\367
\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002
\202\001\001\000\362\314\126\052\115\346\026\067\132\227\352\155

\065\070\321\020\233\333\270\334\251\004\011\225\063\056\011\305
\000\173\032\170\102\217\310\364\005\216\376\322\150\203\036\116
\231\315\027\333\107\076\120\363\211\322\347\334\230\373\005\370
\252\326\143\364\124\115\301\161\003\260\037\033\166\263\032\064
\060\163\361\050\062\140\203\375\264\234\327\266\322\042\067\174
\031\252\073\336\023\020\151\156\134\006\323\157\243\362\146\132
\166\102\110\257\200\321\124\131\075\324\271\324\333\355\271\253
\071\231\364\356\142\253\341\170\162\173\330\070\215\100\266\314
\334\022\000\160\103\205\151\330\030\343\312\127\162\237\264\337
\077\374\042\250\102\122\365\167\133\231\360\126\055\046\160\026
\066\022\302\047\236\127\246\174\320\043\361\171\334\243\223\130
\050\070\075\237\255\066\103\356\067\373\370\371\103\255\310\126
\362\224\022\136\102\353\163\270\023\015\313\246\325\206\271\252
\050\152\124\003\241\077\017\051\353\011\000\350\077\136\242\177
\027\075\241\053\370\276\320\165\035\244\204\343\253\027\145\006
\122\000\257\261\002\003\001\000\001\243\143\060\141\060\017\006
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\035
\006\003\125\035\016\004\026\004\024\264\306\177\032\103\314\233
\165\135\057\304\113\362\213\230\020\351\361\121\020\060\037\006
\003\125\035\043\004\030\060\026\200\024\264\306\177\032\103\314
\233\165\135\057\304\113\362\213\230\020\351\361\121\020\060\015
\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202\001
\001\000\254\200\273\304\045\005\013\130\244\344\176\051\176\257
\274\073\354\055\300\104\056\371\221\340\322\073\062\047\220\055
\366\200\011\134\302\253\145\044\332\070\020\106\304\111\322\375
\232\253\050\110\167\210\306\351\157\321\107\221\325\065\117\024
\011\250\133\100\007\035\174\161\126\313\211\102\324\277\141\300
\042\367\056\337\253\363\162\103\213\100\350\224\353\260\046\332
\321\023\323\253\320\066\055\056\072\225\263\167\056\025\071\030
\014\151\272\252\200\355\361\123\116\063\233\150\004\342\240\060
\056\327\321\135\324\246\146\235\204\346\347\273\074\211\273\066
\235\374\027\251\075\125\053\212\373\233\304\114\204\377\337\322
\276\151\033\164\260\250\366\352\260\234\262\051\164\201\114\150
\072\232\177\163\045\071\365\023\340\146\221\151\324\127\113\267
\356\255\105\340\054\303\210\323\276\224\111\211\037\377\160\325
\133\155\071\023\260\035\313\230\346\147\143\015\143\366\373\303
\327\141\162\203\210\077\160\176\123\311\236\211\124\326\117\177
\175\161\271\256\361\140\213\167\140\354\370\277\372\152\243\234
\001\042
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Starfield Services Root Certificate Authority"
Issuer: CN=Starfield Services Root Certificate

Authority,OU=http://certificates.starfieldtech.com/repository/,O=Starfield Technologies\,
Inc.,L=Scottsdale,ST=Arizona,C=US
Serial Number: 0 (0x0)
Subject: CN=Starfield Services Root Certificate
Authority,OU=http://certificates.starfieldtech.com/repository/,O=Starfield Technologies\,
Inc.,L=Scottsdale,ST=Arizona,C=US
Not Valid Before: Mon Jun 02 00:00:00 2008
Not Valid After: Mon Dec 31 23:59:59 2029
Fingerprint (MD5): cf:8f:3b:62:a3:ca:ca:71:1b:a3:e1:cb:48:57:35:1f
Fingerprint (SHA1): 5d:00:38:60:f0:02:ed:82:9d:ea:a4:18:68:f7:88:18:6d:62:12:7f
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Services Root Certificate Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\135\000\070\140\360\002\355\202\235\352\244\030\150\367\210\030
\155\142\022\177
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\317\217\073\142\243\312\312\161\033\243\341\313\110\127\065\037
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\317\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\072
\060\070\006\003\125\004\013\023\061\150\164\164\160\072\057\057
\143\145\162\164\151\146\151\143\141\164\145\163\056\163\164\141
\162\146\151\145\154\144\164\145\143\150\056\143\157\155\057\162
\145\160\157\163\151\164\157\162\171\057\061\066\060\064\006\003
\125\004\003\023\055\123\164\141\162\146\151\145\154\144\040\123
\145\162\166\151\143\145\163\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "I.CA - Qualified root certificate"

```
# Issuer: O=První certifikaní autorita\, a.s.,CN=I.CA - Qualified root certificate,C=CZ
# Serial Number:9d:2a:60
# Subject: O=První certifikaní autorita\, a.s.,CN=I.CA - Qualified root certificate,C=CZ
# Not Valid Before: Tue Apr 01 00:00:00 2008
# Not Valid After: Sun Apr 01 00:00:00 2018
# Fingerprint (MD5): 48:d1:1e:62:78:01:c2:6e:43:69:a4:2c:ee:13:0a:b5
# Fingerprint (SHA1): 64:90:2a:d7:27:7a:f3:e3:2c:d8:cc:1d:c7:9d:e1:fd:7f:80:69:ea
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "I.CA - Qualified root certificate"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\150\061\013\060\011\006\003\125\004\006\023\002\103\132\061
\052\060\050\006\003\125\004\003\014\041\111\056\103\101\040\055
\040\121\165\141\154\151\146\151\145\144\040\162\157\157\164\040
\143\145\162\164\151\146\151\143\141\164\145\061\055\060\053\006
\003\125\004\012\014\044\120\162\166\156\303\255\040\143\145\162
\164\151\146\151\153\141\304\215\156\303\255\040\141\165\164\157
\162\151\164\141\054\040\141\056\163\056
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\150\061\013\060\011\006\003\125\004\006\023\002\103\132\061
\052\060\050\006\003\125\004\003\014\041\111\056\103\101\040\055
\040\121\165\141\154\151\146\151\145\144\040\162\157\157\164\040
\143\145\162\164\151\146\151\143\141\164\145\061\055\060\053\006
\003\125\004\012\014\044\120\162\166\156\303\255\040\143\145\162
\164\151\146\151\153\141\304\215\156\303\255\040\141\165\164\157
\162\151\164\141\054\040\141\056\163\056
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\000\235\052\140
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\071\060\202\003\041\240\003\002\001\002\002\004\000
\235\052\140\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\060\150\061\013\060\011\006\003\125\004\006\023\002\103
\132\061\052\060\050\006\003\125\004\003\014\041\111\056\103\101
\040\055\040\121\165\141\154\151\146\151\145\144\040\162\157\157
\164\040\143\145\162\164\151\146\151\143\141\164\145\061\055\060
\053\006\003\125\004\012\014\044\120\162\166\156\303\255\040\143
\145\162\164\151\146\151\153\141\304\215\156\303\255\040\141\165
\164\157\162\151\164\141\054\040\141\056\163\056\060\036\027\015
\060\070\060\064\060\061\060\060\060\060\060\060\132\027\015\061
\070\060\064\060\061\060\060\060\060\060\060\132\060\150\061\013
\060\011\006\003\125\004\006\023\002\103\132\061\052\060\050\006
```

\003\125\004\003\014\041\111\056\103\101\040\055\040\121\165\141
\154\151\146\151\145\144\040\162\157\157\164\040\143\145\162\164
\151\146\151\143\141\164\145\061\055\060\053\006\003\125\004\012
\014\044\120\162\166\156\303\255\040\143\145\162\164\151\146\151
\153\141\304\215\156\303\255\040\141\165\164\157\162\151\164\141
\054\040\141\056\163\056\060\202\001\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202
\001\012\002\202\001\001\000\253\010\210\244\360\164\362\237\370
\333\326\167\215\060\031\076\246\305\307\212\305\275\335\346\002
\256\216\075\120\165\270\257\175\066\253\376\365\355\010\147\264
\000\212\230\301\003\143\210\121\362\033\066\211\164\132\055\310
\304\202\304\077\271\210\375\154\375\072\035\025\005\104\225\200
\032\246\206\313\041\165\220\205\134\260\160\000\207\064\250\321
\037\111\375\154\070\155\152\254\270\105\237\274\024\327\146\324
\041\343\047\012\215\165\340\132\057\012\113\264\347\176\163\243
\052\275\160\361\221\206\010\217\277\220\204\034\207\251\365\231
\045\045\224\301\343\156\007\301\113\007\133\124\374\064\313\106
\067\234\305\241\040\316\246\254\207\251\203\074\070\117\300\100
\363\351\377\233\327\071\166\344\023\043\165\265\377\241\102\256
\134\206\117\305\116\103\266\231\013\122\123\040\250\263\302\114
\323\000\054\025\322\131\154\012\237\041\265\163\026\171\036\206
\045\356\032\373\223\236\255\143\361\114\342\166\061\136\067\357
\374\320\251\066\344\371\021\351\172\374\120\347\101\043\003\064
\270\175\272\016\317\335\123\002\003\001\000\001\243\201\352\060
\201\347\060\017\006\003\125\035\023\001\001\377\004\005\060\003
\001\001\377\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\006\060\201\244\006\003\125\035\040\004\201\234\060\201
\231\060\201\226\006\014\053\006\001\004\001\201\270\110\001\004
\000\001\060\201\205\060\201\202\006\010\053\006\001\005\005\007
\002\002\060\166\032\164\124\145\156\164\157\040\143\145\162\164
\151\146\151\153\141\164\040\152\145\040\166\171\144\141\156\040
\152\141\153\157\040\153\166\141\154\151\146\151\153\157\166\141
\156\171\040\163\171\163\164\145\155\157\166\171\040\143\145\162
\164\151\146\151\153\141\164\040\166\040\163\157\165\154\141\144
\165\040\163\145\040\172\141\153\157\156\145\155\040\062\062\067
\057\062\060\060\060\040\123\142\056\040\166\040\160\154\141\164
\156\145\155\040\172\156\145\156\151\056\060\035\006\003\125\035
\016\004\026\004\024\150\235\176\326\304\045\071\373\073\240\067
\326\117\334\214\321\172\360\126\131\060\015\006\011\052\206\110
\206\367\015\001\001\005\005\000\003\202\001\001\000\162\365\274
\006\215\322\054\226\362\202\333\130\173\107\360\100\144\345\056
\033\357\372\340\372\323\361\162\110\001\104\362\210\364\336\230
\201\123\204\347\175\116\107\347\061\067\126\256\263\301\060\157
\306\253\110\203\365\230\123\122\151\052\050\301\100\145\353\145
\347\264\060\013\360\253\016\245\022\045\277\364\120\135\277\243
\176\345\321\164\370\012\050\256\102\234\260\024\122\304\240\140
\135\367\105\027\102\272\102\055\233\222\373\156\224\263\160\107
\040\010\235\123\360\260\255\275\251\204\132\335\007\052\014\315

\053\155\141\050\337\073\222\050\354\121\201\177\121\174\216\056
\177\235\351\274\301\064\075\213\255\201\255\361\036\164\146\103
\074\101\115\270\056\063\117\261\072\036\333\022\337\066\216\161
\377\127\143\261\326\217\264\075\206\022\152\317\102\060\264\223
\026\352\231\352\002\133\376\010\356\262\117\160\277\063\000\347
\172\112\070\241\362\110\221\246\036\313\043\262\070\235\360\056
\111\242\311\210\126\145\145\216\072\147\105\214\214\013\342\252
\261\113\007\377\261\037\272\024\317\162\372\247\170
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "I.CA - Qualified root certificate"
Issuer: O=První certifikaní autorita\, a.s.,CN=I.CA - Qualified root certificate,C=CZ
Serial Number:9d:2a:60
Subject: O=První certifikaní autorita\, a.s.,CN=I.CA - Qualified root certificate,C=CZ
Not Valid Before: Tue Apr 01 00:00:00 2008
Not Valid After: Sun Apr 01 00:00:00 2018
Fingerprint (MD5): 48:d1:1e:62:78:01:c2:6e:43:69:a4:2c:ee:13:0a:b5
Fingerprint (SHA1): 64:90:2a:d7:27:7a:f3:e3:2c:d8:cc:1d:c7:9d:e1:fd:7f:80:69:ea
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "I.CA - Qualified root certificate"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\144\220\052\327\047\172\363\343\054\330\314\035\307\235\341\375
\177\200\151\352
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\110\321\036\142\170\001\302\156\103\151\244\054\356\023\012\265
END
CKA_ISSUER MULTILINE_OCTAL
\060\150\061\013\060\011\006\003\125\004\006\023\002\103\132\061
\052\060\050\006\003\125\004\003\014\041\111\056\103\101\040\055
\040\121\165\141\154\151\146\151\145\144\040\162\157\157\164\040
\143\145\162\164\151\146\151\143\141\164\145\061\055\060\053\006
\003\125\004\012\014\044\120\162\166\156\303\255\040\143\145\162
\164\151\146\151\153\141\304\215\156\303\255\040\141\165\164\157
\162\151\164\141\054\040\141\056\163\056
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\000\235\052\140
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "I.CA - Standard root certificate"
Issuer: O=Prvni certifikacni autorita a.s.,CN=I.CA - Standard root certificate,C=CZ
Serial Number:13:d6:20
Subject: O=Prvni certifikacni autorita a.s.,CN=I.CA - Standard root certificate,C=CZ
Not Valid Before: Tue Apr 01 00:00:00 2008
Not Valid After: Sun Apr 01 00:00:00 2018
Fingerprint (MD5): 04:68:e9:24:7e:41:ce:d7:6c:44:16:30:70:3d:dd:b9
Fingerprint (SHA1): ab:16:dd:14:4e:cd:c0:fc:4b:aa:b6:2e:cf:04:08:89:6f:de:52:b7
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "I.CA - Standard root certificate"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\103\132\061
\051\060\047\006\003\125\004\003\023\040\111\056\103\101\040\055
\040\123\164\141\156\144\141\162\144\040\162\157\157\164\040\143
\145\162\164\151\146\151\143\141\164\145\061\051\060\047\006\003
\125\004\012\023\040\120\162\166\156\151\040\143\145\162\164\151
\146\151\153\141\143\156\151\040\141\165\164\157\162\151\164\141
\040\141\056\163\056
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\103\132\061
\051\060\047\006\003\125\004\003\023\040\111\056\103\101\040\055
\040\123\164\141\156\144\141\162\144\040\162\157\157\164\040\143
\145\162\164\151\146\151\143\141\164\145\061\051\060\047\006\003
\125\004\012\023\040\120\162\166\156\151\040\143\145\162\164\151
\146\151\153\141\143\156\151\040\141\165\164\157\162\151\164\141
\040\141\056\163\056
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\023\326\040
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\056\060\202\003\026\240\003\002\001\002\002\003\023
\326\040\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\000\060\143\061\013\060\011\006\003\125\004\006\023\002\103\132
\061\051\060\047\006\003\125\004\003\023\040\111\056\103\101\040
\055\040\123\164\141\156\144\141\162\144\040\162\157\157\164\040
\143\145\162\164\151\146\151\143\141\164\145\061\051\060\047\006
\003\125\004\012\023\040\120\162\166\156\151\040\143\145\162\164

\151\146\151\153\141\143\156\151\040\141\165\164\157\162\151\164
\141\040\141\056\163\056\060\036\027\015\060\070\060\064\060\061
\060\060\060\060\060\060\132\027\015\061\070\060\064\060\061\060
\060\060\060\060\060\132\060\143\061\013\060\011\006\003\125\004
\006\023\002\103\132\061\051\060\047\006\003\125\004\003\023\040
\111\056\103\101\040\055\040\123\164\141\156\144\141\162\144\040
\162\157\157\164\040\143\145\162\164\151\146\151\143\141\164\145
\061\051\060\047\006\003\125\004\012\023\040\120\162\166\156\151
\040\143\145\162\164\151\146\151\153\141\143\156\151\040\141\165
\164\157\162\151\164\141\040\141\056\163\056\060\202\001\042\060
\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202
\001\017\000\060\202\001\012\002\202\001\001\000\321\055\025\304
\071\114\152\241\304\345\363\053\264\375\251\026\351\270\121\217
\067\221\331\247\323\227\220\266\160\151\207\365\257\131\322\142
\101\130\325\363\225\215\002\025\372\146\234\301\041\024\330\037
\255\372\052\154\164\126\241\142\341\361\260\255\270\376\322\243
\340\221\241\265\256\123\255\215\244\015\017\131\140\227\052\374
\243\056\163\065\043\163\314\250\246\241\024\155\277\211\303\204
\070\363\144\131\314\061\363\340\371\047\140\012\074\101\005\157
\132\122\360\217\156\122\156\354\136\210\157\340\100\214\041\107
\127\042\351\070\156\346\372\363\044\264\256\257\057\163\077\200
\325\062\217\214\331\204\031\330\140\316\333\151\215\076\257\002
\257\256\336\257\120\365\317\346\263\141\030\304\340\335\360\116
\112\146\015\172\163\040\267\344\324\223\206\107\141\330\117\312
\072\216\253\302\077\306\042\027\243\135\235\040\306\305\016\044
\151\310\246\175\146\006\315\106\346\063\341\103\164\223\365\203
\142\322\260\105\042\001\244\166\275\353\121\223\130\154\372\032
\241\237\165\200\332\330\000\342\361\210\115\077\002\003\001\000
\001\243\201\352\060\201\347\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\016\006\003\125\035\017\001
\001\377\004\004\003\002\001\006\060\035\006\003\125\035\016\004
\026\004\024\353\067\244\276\271\157\140\027\373\323\377\055\140
\341\004\036\257\317\306\323\060\201\244\006\003\125\035\040\004
\201\234\060\201\231\060\201\226\006\014\053\006\001\004\001\201
\270\110\001\001\000\001\060\201\205\060\201\202\006\010\053\006
\001\005\005\007\002\002\060\166\032\164\124\145\156\164\157\040
\143\145\162\164\151\146\151\153\141\164\040\152\145\040\166\171
\144\141\156\040\152\141\153\157\040\153\166\141\154\151\146\151
\153\157\166\141\156\171\040\163\171\163\164\145\155\157\166\171
\040\143\145\162\164\151\146\151\153\141\164\040\166\040\163\157
\165\154\141\144\165\040\163\145\040\172\141\153\157\156\145\155
\040\062\062\067\057\062\060\060\060\040\123\142\056\040\166\040
\160\154\141\164\156\145\155\040\172\156\145\156\151\056\060\015
\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202\001
\001\000\027\042\130\252\057\030\125\002\241\114\066\111\067\113
\233\163\272\256\143\066\016\213\053\204\105\067\314\372\340\147
\367\240\163\152\147\150\126\274\141\250\064\232\050\272\146\054
\141\233\213\034\370\004\160\214\206\343\101\357\224\171\015\335

\064\207\004\356\265\236\061\153\071\364\176\130\345\362\260\004
\115\251\127\045\111\340\013\325\344\354\175\016\076\073\001\340
\214\374\122\220\223\346\362\260\253\365\061\167\314\321\311\103
\202\253\017\056\264\371\230\256\076\343\104\364\244\003\151\125
\332\134\216\333\301\271\254\344\230\325\166\025\106\241\056\132
\014\042\140\240\302\353\160\177\161\003\260\150\323\061\144\315
\352\313\113\125\211\202\076\134\146\313\032\010\230\107\302\336
\331\056\070\114\005\375\055\214\372\343\042\045\271\222\375\326
\262\055\312\242\064\234\337\111\357\325\204\001\054\222\377\005
\101\012\147\306\102\153\236\313\330\237\220\274\015\017\020\175
\307\146\275\352\163\007\340\030\352\121\201\264\105\100\074\017
\241\042\067\025\001\205\251\056\174\016\137\135\316\152\223\276
\331\276
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "I.CA - Standard root certificate"
Issuer: O=Prvni certifikacni autorita a.s.,CN=I.CA - Standard root certificate,C=CZ
Serial Number:13:d6:20
Subject: O=Prvni certifikacni autorita a.s.,CN=I.CA - Standard root certificate,C=CZ
Not Valid Before: Tue Apr 01 00:00:00 2008
Not Valid After: Sun Apr 01 00:00:00 2018
Fingerprint (MD5): 04:68:e9:24:7e:41:ce:d7:6c:44:16:30:70:3d:dd:b9
Fingerprint (SHA1): ab:16:dd:14:4e:cd:c0:fc:4b:aa:b6:2e:cf:04:08:89:6f:de:52:b7
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "I.CA - Standard root certificate"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\253\026\335\024\116\315\300\374\113\252\266\056\317\004\010\211
\157\336\122\267
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\004\150\351\044\176\101\316\327\154\104\026\060\160\075\335\271
END
CKA_ISSUER MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\103\132\061
\051\060\047\006\003\125\004\003\023\040\111\056\103\101\040\055
\040\123\164\141\156\144\141\162\144\040\162\157\157\164\040\143
\145\162\164\151\146\151\143\141\164\145\061\051\060\047\006\003
\125\004\012\023\040\120\162\166\156\151\040\143\145\162\164\151
\146\151\153\141\143\156\151\040\141\165\164\157\162\151\164\141
\040\141\056\163\056
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\023\326\040
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "e-Guven Kok Elektronik Sertifika Hizmet Saglayicisi"
Issuer: CN=e-Guven Kok Elektronik Sertifika Hizmet Saglayicisi,O=Elektronik Bilgi Guvenligi A.S.,C=TR
Serial Number:44:99:8d:3c:c0:03:27:bd:9c:76:95:b9:ea:db:ac:b5
Subject: CN=e-Guven Kok Elektronik Sertifika Hizmet Saglayicisi,O=Elektronik Bilgi Guvenligi A.S.,C=TR
Not Valid Before: Thu Jan 04 11:32:48 2007
Not Valid After: Wed Jan 04 11:32:48 2017
Fingerprint (MD5): 3d:41:29:cb:1e:aa:11:74:cd:5d:b0:62:af:b0:43:5b
Fingerprint (SHA1): dd:e1:d2:a9:01:80:2e:1d:87:5e:84:b3:80:7e:4b:b1:fd:99:41:34
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "e-Guven Kok Elektronik Sertifika Hizmet Saglayicisi"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\165\061\013\060\011\006\003\125\004\006\023\002\124\122\061
\050\060\046\006\003\125\004\012\023\037\105\154\145\153\164\162
\157\156\151\153\040\102\151\154\147\151\040\107\165\166\145\156
\154\151\147\151\040\101\056\123\056\061\074\060\072\006\003\125
\004\003\023\063\145\055\107\165\166\145\156\040\113\157\153\040
\105\154\145\153\164\162\157\156\151\153\040\123\145\162\164\151
\146\151\153\141\040\110\151\172\155\145\164\040\123\141\147\154
\141\171\151\143\151\163\151
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\165\061\013\060\011\006\003\125\004\006\023\002\124\122\061
\050\060\046\006\003\125\004\012\023\037\105\154\145\153\164\162
\157\156\151\153\040\102\151\154\147\151\040\107\165\166\145\156
\154\151\147\151\040\101\056\123\056\061\074\060\072\006\003\125
\004\003\023\063\145\055\107\165\166\145\156\040\113\157\153\040
\105\154\145\153\164\162\157\156\151\153\040\123\145\162\164\151
\146\151\153\141\040\110\151\172\155\145\164\040\123\141\147\154
\141\171\151\143\151\163\151
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\104\231\215\074\300\003\047\275\234\166\225\271\352\333
\254\265
END

CKA_VALUE MULTILINE_OCTAL
\060\202\003\266\060\202\002\236\240\003\002\001\002\002\020\104
\231\215\074\300\003\047\275\234\166\225\271\352\333\254\265\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\165
\061\013\060\011\006\003\125\004\006\023\002\124\122\061\050\060
\046\006\003\125\004\012\023\037\105\154\145\153\164\162\157\156
\151\153\040\102\151\154\147\151\040\107\165\166\145\156\154\151
\147\151\040\101\056\123\056\061\074\060\072\006\003\125\004\003
\023\063\145\055\107\165\166\145\156\040\113\157\153\040\105\154
\145\153\164\162\157\156\151\153\040\123\145\162\164\151\146\151
\153\141\040\110\151\172\155\145\164\040\123\141\147\154\141\171
\151\143\151\163\151\060\036\027\015\060\067\060\061\060\064\061
\061\063\062\064\070\132\027\015\061\067\060\061\060\064\061\061
\063\062\064\070\132\060\165\061\013\060\011\006\003\125\004\006
\023\002\124\122\061\050\060\046\006\003\125\004\012\023\037\105
\154\145\153\164\162\157\156\151\153\040\102\151\154\147\151\040
\107\165\166\145\156\154\151\147\151\040\101\056\123\056\061\074
\060\072\006\003\125\004\003\023\063\145\055\107\165\166\145\156
\040\113\157\153\040\105\154\145\153\164\162\157\156\151\153\040
\123\145\162\164\151\146\151\153\141\040\110\151\172\155\145\164
\040\123\141\147\154\141\171\151\143\151\163\151\060\202\001\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\001\017\000\060\202\001\012\002\202\001\001\000\303\022\040
\236\260\136\000\145\215\116\106\273\200\134\351\054\006\227\325
\363\162\311\160\271\347\113\145\200\301\113\276\176\074\327\124
\061\224\336\325\022\272\123\026\002\352\130\143\357\133\330\363
\355\052\032\252\161\110\243\334\020\055\137\137\353\134\113\234
\226\010\102\045\050\021\314\212\132\142\001\120\325\353\011\123
\057\370\303\217\376\263\374\375\235\242\343\137\175\276\355\013
\340\140\353\151\354\063\355\330\215\373\022\111\203\000\311\213
\227\214\073\163\052\062\263\022\367\271\115\362\364\115\155\307
\346\326\046\067\010\362\331\375\153\134\243\345\110\134\130\274
\102\276\003\132\201\272\034\065\014\000\323\365\043\176\161\060
\010\046\070\334\045\021\107\055\363\272\043\020\245\277\274\002
\367\103\136\307\376\260\067\120\231\173\017\223\316\346\103\054
\303\176\015\362\034\103\146\140\313\141\061\107\207\243\117\256
\275\126\154\114\274\274\370\005\312\144\364\351\064\241\054\265
\163\341\302\076\350\310\311\064\045\010\134\363\355\246\307\224
\237\255\210\103\045\327\341\071\140\376\254\071\131\002\003\001
\000\001\243\102\060\100\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026
\004\024\237\356\104\263\224\325\372\221\117\056\331\125\232\004
\126\333\055\304\333\245\060\015\006\011\052\206\110\206\367\015
\001\001\005\005\000\003\202\001\001\000\177\137\271\123\133\143
\075\165\062\347\372\304\164\032\313\106\337\106\151\034\122\317
\252\117\302\150\353\377\200\251\121\350\075\142\167\211\075\012
\165\071\361\156\135\027\207\157\150\005\301\224\154\331\135\337

\332\262\131\313\245\020\212\312\314\071\315\237\353\116\336\122
\377\014\360\364\222\251\362\154\123\253\233\322\107\240\037\164
\367\233\232\361\057\025\237\172\144\060\030\007\074\052\017\147
\312\374\017\211\141\235\145\245\074\345\274\023\133\010\333\343
\377\355\273\006\273\152\006\261\172\117\145\306\202\375\036\234
\213\265\015\356\110\273\270\275\252\010\264\373\243\174\313\237
\315\220\166\134\206\226\170\127\012\146\371\130\032\235\375\227
\051\140\336\021\246\220\034\031\034\356\001\226\042\064\064\056
\221\371\267\304\047\321\173\346\277\373\200\104\132\026\345\353
\340\324\012\070\274\344\221\343\325\353\134\301\254\337\033\152
\174\236\345\165\322\266\227\207\333\314\207\053\103\072\204\010
\257\253\074\333\367\074\146\061\206\260\235\123\171\355\370\043
\336\102\343\055\202\361\017\345\372\227
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "e-Guven Kok Elektronik Sertifika Hizmet Saglayicisi"
Issuer: CN=e-Guven Kok Elektronik Sertifika Hizmet Saglayicisi,O=Elektronik Bilgi Guvenligi A.S.,C=TR
Serial Number:44:99:8d:3c:c0:03:27:bd:9c:76:95:b9:ea:db:ac:b5
Subject: CN=e-Guven Kok Elektronik Sertifika Hizmet Saglayicisi,O=Elektronik Bilgi Guvenligi A.S.,C=TR
Not Valid Before: Thu Jan 04 11:32:48 2007
Not Valid After: Wed Jan 04 11:32:48 2017
Fingerprint (MD5): 3d:41:29:cb:1e:aa:11:74:cd:5d:b0:62:af:b0:43:5b
Fingerprint (SHA1): dd:e1:d2:a9:01:80:2e:1d:87:5e:84:b3:80:7e:4b:b1:fd:99:41:34
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "e-Guven Kok Elektronik Sertifika Hizmet Saglayicisi"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\335\341\322\251\001\200\056\035\207\136\204\263\200\176\113\261
\375\231\101\064
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\075\101\051\313\036\252\021\164\315\135\260\142\257\260\103\133
END
CKA_ISSUER MULTILINE_OCTAL
\060\165\061\013\060\011\006\003\125\004\006\023\002\124\122\061
\050\060\046\006\003\125\004\012\023\037\105\154\145\153\164\162
\157\156\151\153\040\102\151\154\147\151\040\107\165\166\145\156
\154\151\147\151\040\101\056\123\056\061\074\060\072\006\003\125
\004\003\023\063\145\055\107\165\166\145\156\040\113\157\153\040
\105\154\145\153\164\162\157\156\151\153\040\123\145\162\164\151
\146\151\153\141\040\110\151\172\155\145\164\040\123\141\147\154
\141\171\151\143\151\163\151

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\104\231\215\074\300\003\047\275\234\166\225\271\352\333
\254\265
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Japanese Government"
Issuer: OU=ApplicationCA,O=Japanese Government,C=JP
Serial Number: 49 (0x31)
Subject: OU=ApplicationCA,O=Japanese Government,C=JP
Not Valid Before: Wed Dec 12 15:00:00 2007
Not Valid After: Tue Dec 12 15:00:00 2017
Fingerprint (MD5): 7e:23:4e:5b:a7:a5:b4:25:e9:00:07:74:11:62:ae:d6
Fingerprint (SHA1): 7f:8a:b0:cf:d0:51:87:6a:66:f3:36:0f:47:c8:8d:8c:d3:35:fc:74
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Japanese Government"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\103\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\034\060\032\006\003\125\004\012\023\023\112\141\160\141\156\145
\163\145\040\107\157\166\145\162\156\155\145\156\164\061\026\060
\024\006\003\125\004\013\023\015\101\160\160\154\151\143\141\164
\151\157\156\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\103\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\034\060\032\006\003\125\004\012\023\023\112\141\160\141\156\145
\163\145\040\107\157\166\145\162\156\155\145\156\164\061\026\060
\024\006\003\125\004\013\023\015\101\160\160\154\151\143\141\164
\151\157\156\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\061
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\240\060\202\002\210\240\003\002\001\002\002\001\061
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\103\061\013\060\011\006\003\125\004\006\023\002\112\120\061\034
\060\032\006\003\125\004\012\023\023\112\141\160\141\156\145\163

\145\040\107\157\166\145\162\156\155\145\156\164\061\026\060\024
\006\003\125\004\013\023\015\101\160\160\154\151\143\141\164\151
\157\156\103\101\060\036\027\015\060\067\061\062\061\062\061\065
\060\060\060\060\132\027\015\061\067\061\062\061\062\061\065\060
\060\060\060\132\060\103\061\013\060\011\006\003\125\004\006\023
\002\112\120\061\034\060\032\006\003\125\004\012\023\023\112\141
\160\141\156\145\163\145\040\107\157\166\145\162\156\155\145\156
\164\061\026\060\024\006\003\125\004\013\023\015\101\160\160\154
\151\143\141\164\151\157\156\103\101\060\202\001\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017
\000\060\202\001\012\002\202\001\001\000\247\155\340\164\116\207
\217\245\006\336\150\242\333\206\231\113\144\015\161\360\012\005
\233\216\252\341\314\056\322\152\073\301\172\264\227\141\215\212
\276\306\232\234\006\264\206\121\344\067\016\164\170\176\137\212
\177\224\244\327\107\010\375\120\132\126\344\150\254\050\163\240
\173\351\177\030\222\100\117\055\235\365\256\104\110\163\066\006
\236\144\054\073\064\043\333\134\046\344\161\171\217\324\156\171
\042\271\223\301\312\315\301\126\355\210\152\327\240\071\041\004
\127\054\242\365\274\107\101\117\136\064\042\225\265\037\051\155
\136\112\363\115\162\276\101\126\040\207\374\351\120\107\327\060
\024\356\134\214\125\272\131\215\207\374\043\336\223\320\004\214
\375\357\155\275\320\172\311\245\072\152\162\063\306\112\015\005
\027\052\055\173\261\247\330\326\360\276\364\077\352\016\050\155
\101\141\043\166\170\303\270\145\244\363\132\256\314\302\252\331
\347\130\336\266\176\235\205\156\237\052\012\157\237\003\051\060
\227\050\035\274\267\317\124\051\116\121\061\371\047\266\050\046
\376\242\143\346\101\026\360\063\230\107\002\003\001\000\001\243
\201\236\060\201\233\060\035\006\003\125\035\016\004\026\004\024
\124\132\313\046\077\161\314\224\106\015\226\123\352\153\110\320
\223\376\102\165\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\006\060\131\006\003\125\035\021\004\122\060\120\244
\116\060\114\061\013\060\011\006\003\125\004\006\023\002\112\120
\061\030\060\026\006\003\125\004\012\014\017\346\227\245\346\234
\254\345\233\275\346\224\277\345\272\234\061\043\060\041\006\003
\125\004\013\014\032\343\202\242\343\203\227\343\203\252\343\202
\261\343\203\274\343\202\267\343\203\247\343\203\263\103\101\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003
\202\001\001\000\071\152\104\166\167\070\072\354\243\147\106\017
\371\213\006\250\373\152\220\061\316\176\354\332\321\211\174\172
\353\056\014\275\231\062\347\260\044\326\303\377\365\262\210\011
\207\054\343\124\341\243\246\262\010\013\300\205\250\310\322\234
\161\366\035\237\140\374\070\063\023\341\236\334\013\137\332\026
\120\051\173\057\160\221\017\231\272\064\064\215\225\164\305\176
\170\251\146\135\275\312\041\167\102\020\254\146\046\075\336\221
\253\375\025\360\157\355\154\137\020\370\363\026\366\003\212\217
\247\022\021\014\313\375\077\171\301\234\375\142\356\243\317\124
\014\321\053\137\027\076\343\076\277\300\053\076\011\233\376\210

\246\176\264\222\027\374\043\224\201\275\156\247\305\214\302\353
\021\105\333\370\101\311\226\166\352\160\137\171\022\153\344\243
\007\132\005\357\047\111\317\041\237\212\114\011\160\146\251\046
\301\053\021\116\063\322\016\374\326\154\322\016\062\144\150\377
\255\005\170\137\003\035\250\343\220\254\044\340\017\100\247\113
\256\213\050\267\202\312\030\007\346\267\133\164\351\040\031\177
\262\033\211\124
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Japanese Government"
Issuer: OU=ApplicationCA,O=Japanese Government,C=JP
Serial Number: 49 (0x31)
Subject: OU=ApplicationCA,O=Japanese Government,C=JP
Not Valid Before: Wed Dec 12 15:00:00 2007
Not Valid After: Tue Dec 12 15:00:00 2017
Fingerprint (MD5): 7e:23:4e:5b:a7:a5:b4:25:e9:00:07:74:11:62:ae:d6
Fingerprint (SHA1): 7f:8a:b0:cf:d0:51:87:6a:66:f3:36:0f:47:c8:8d:8c:d3:35:fc:74
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Japanese Government"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\177\212\260\317\320\121\207\152\146\363\066\017\107\310\215\214
\323\065\374\164
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\176\043\116\133\247\245\264\045\351\000\007\164\021\142\256\326
END
CKA_ISSUER MULTILINE_OCTAL
\060\103\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\034\060\032\006\003\125\004\012\023\023\112\141\160\141\156\145
\163\145\040\107\157\166\145\162\156\155\145\156\164\061\026\060
\024\006\003\125\004\013\023\015\101\160\160\154\151\143\141\164
\151\157\156\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\061
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "AdminCA-CD-T01"
Issuer: CN=AdminCA-CD-T01,OU=Certification Authorities,OU=Services,O=admin,C=CH
Serial Number: 1 (0x1)
Subject: CN=AdminCA-CD-T01,OU=Certification Authorities,OU=Services,O=admin,C=CH
Not Valid Before: Wed Jan 25 13:36:19 2006
Not Valid After: Mon Jan 25 12:36:19 2016
Fingerprint (MD5): 5b:9e:fd:3b:60:35:ea:68:8e:52:fe:13:19:14:4a:a3
Fingerprint (SHA1): 6b:81:44:6a:5c:dd:f4:74:a0:f8:00:ff:be:69:fd:0d:b6:28:75:16
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AdminCA-CD-T01"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\016\060\014\006\003\125\004\012\023\005\141\144\155\151\156\061
\021\060\017\006\003\125\004\013\023\010\123\145\162\166\151\143
\145\163\061\042\060\040\006\003\125\004\013\023\031\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\151\145\163\061\027\060\025\006\003\125\004\003\023
\016\101\144\155\151\156\103\101\055\103\104\055\124\060\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\016\060\014\006\003\125\004\012\023\005\141\144\155\151\156\061
\021\060\017\006\003\125\004\013\023\010\123\145\162\166\151\143
\145\163\061\042\060\040\006\003\125\004\013\023\031\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\151\145\163\061\027\060\025\006\003\125\004\003\023
\016\101\144\155\151\156\103\101\055\103\104\055\124\060\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\115\060\202\003\065\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061\016
\060\014\006\003\125\004\012\023\005\141\144\155\151\156\061\021
\060\017\006\003\125\004\013\023\010\123\145\162\166\151\143\145
\163\061\042\060\040\006\003\125\004\013\023\031\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\151\145\163\061\027\060\025\006\003\125\004\003\023\016
\101\144\155\151\156\103\101\055\103\104\055\124\060\061\060\036
\027\015\060\066\060\061\062\065\061\063\063\066\061\071\132\027

\015\061\066\060\061\062\065\061\062\063\066\061\071\132\060\155
\061\013\060\011\006\003\125\004\006\023\002\103\110\061\016\060
\014\006\003\125\004\012\023\005\141\144\155\151\156\061\021\060
\017\006\003\125\004\013\023\010\123\145\162\166\151\143\145\163
\061\042\060\040\006\003\125\004\013\023\031\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\151\145\163\061\027\060\025\006\003\125\004\003\023\016\101
\144\155\151\156\103\101\055\103\104\055\124\060\061\060\202\001
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000
\003\202\001\017\000\060\202\001\012\002\202\001\001\000\322\064
\045\061\231\251\054\070\125\370\143\121\365\060\050\110\331\136
\046\004\001\343\020\027\044\102\320\177\237\362\110\307\350\024
\016\014\232\062\252\141\164\044\007\243\006\076\344\012\301\037
\127\105\024\217\177\255\157\251\277\030\076\307\143\106\150\051
\157\041\301\161\107\171\267\103\174\105\176\260\105\225\047\074
\305\276\154\040\250\331\132\200\123\205\305\156\171\134\332\001
\312\151\251\264\301\324\355\154\024\327\022\113\364\211\342\007
\177\020\237\027\025\352\112\304\253\353\102\044\027\375\277\305
\272\300\201\137\320\017\234\207\223\242\036\361\367\200\125\154
\042\345\113\132\026\253\156\340\270\205\022\035\220\063\054\154
\073\054\365\071\313\312\316\103\066\203\316\367\267\050\204\356
\074\314\201\223\376\133\015\355\211\271\066\027\337\236\351\227
\242\007\176\323\054\351\225\266\370\051\232\274\054\341\370\210
\254\123\127\021\204\226\005\132\324\115\271\374\325\116\073\311
\154\316\201\376\137\020\163\364\355\264\125\345\003\202\314\051
\275\366\243\142\232\306\313\350\041\273\235\076\374\011\002\003
\001\000\001\243\201\367\060\201\364\060\022\006\003\125\035\023
\001\001\377\004\010\060\006\001\001\377\002\001\000\060\201\256
\006\003\125\035\040\004\201\246\060\201\243\060\201\240\006\010
\140\205\164\001\021\003\025\001\060\201\223\060\110\006\010\053
\006\001\005\005\007\002\002\060\074\032\072\124\150\151\163\040
\151\163\040\164\150\145\040\101\144\155\151\156\103\101\055\103
\104\055\124\060\061\040\103\145\162\164\151\146\151\143\141\164
\145\040\120\162\141\143\164\151\143\145\040\123\164\141\164\145
\155\145\156\164\056\060\107\006\010\053\006\001\005\005\007\002
\001\026\073\150\164\164\160\072\057\057\167\167\167\056\160\153
\151\056\141\144\155\151\156\056\143\150\057\160\157\154\151\143
\171\057\103\120\123\137\062\137\061\066\137\067\065\066\137\061
\137\061\067\137\063\137\062\061\137\061\056\160\144\146\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060\035
\006\003\125\035\016\004\026\004\024\052\304\151\012\241\306\125
\306\003\156\160\316\206\201\263\244\017\252\031\333\060\015\006
\011\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001
\000\237\176\172\155\273\254\214\216\140\224\145\321\103\120\321
\277\155\152\101\375\022\342\315\306\037\046\146\355\312\235\072
\101\145\170\316\364\002\260\123\372\103\217\344\331\273\256\124
\200\027\045\140\022\111\201\164\350\073\263\333\145\134\051\124
\311\346\105\236\236\224\021\204\124\162\050\317\067\300\365\125

\243\121\053\243\310\120\346\351\014\024\023\320\057\244\001\374
\106\367\076\057\333\324\364\113\024\370\262\000\035\013\374\120
\027\053\371\360\132\175\154\371\373\243\013\212\300\247\062\010
\175\127\113\050\277\006\236\027\024\102\345\054\346\242\200\026
\116\377\017\235\074\034\370\025\302\122\165\230\324\370\026\211
\320\115\347\050\010\307\225\050\116\346\213\201\111\231\332\047
\075\351\372\171\060\331\154\250\337\253\072\033\020\212\321\166
\344\110\376\071\212\170\210\033\201\146\303\006\144\242\166\005
\312\224\047\264\166\361\332\202\373\265\104\020\143\103\303\243
\306\306\004\307\017\313\361\266\217\347\134\212\246\121\226\311
\337\200\314\265\321\040\263\103\323\024\307\335\261\120\155\225
\172
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "AdminCA-CD-T01"
Issuer: CN=AdminCA-CD-T01,OU=Certification Authorities,OU=Services,O=admin,C=CH
Serial Number: 1 (0x1)
Subject: CN=AdminCA-CD-T01,OU=Certification Authorities,OU=Services,O=admin,C=CH
Not Valid Before: Wed Jan 25 13:36:19 2006
Not Valid After: Mon Jan 25 12:36:19 2016
Fingerprint (MD5): 5b:9e:fd:3b:60:35:ea:68:8e:52:fe:13:19:14:4a:a3
Fingerprint (SHA1): 6b:81:44:6a:5c:dd:f4:74:a0:f8:00:ff:be:69:fd:0d:b6:28:75:16
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AdminCA-CD-T01"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\153\201\104\152\134\335\364\164\240\370\000\377\276\151\375\015
\266\050\165\026
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\133\236\375\073\140\065\352\150\216\122\376\023\031\024\112\243
END
CKA_ISSUER MULTILINE_OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\016\060\014\006\003\125\004\012\023\005\141\144\155\151\156\061
\021\060\017\006\003\125\004\013\023\010\123\145\162\166\151\143
\145\163\061\042\060\040\006\003\125\004\013\023\031\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\151\145\163\061\027\060\025\006\003\125\004\003\023
\016\101\144\155\151\156\103\101\055\103\104\055\124\060\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL

\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Admin-Root-CA"
Issuer: CN=Admin-Root-CA,OU=Certification Authorities,OU=Services,O=admin,C=ch
Serial Number:3b:f3:81:d0
Subject: CN=Admin-Root-CA,OU=Certification Authorities,OU=Services,O=admin,C=ch
Not Valid Before: Thu Nov 15 08:51:07 2001
Not Valid After: Wed Nov 10 07:51:07 2021
Fingerprint (MD5): f3:7e:3a:13:dc:74:63:06:74:1a:3c:38:32:8c:fb:a9
Fingerprint (SHA1): 25:3f:77:5b:0e:77:97:ab:64:5f:15:91:55:97:c3:9e:26:36:31:d1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Admin-Root-CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\143\150\061
\016\060\014\006\003\125\004\012\023\005\141\144\155\151\156\061
\021\060\017\006\003\125\004\013\023\010\123\145\162\166\151\143
\145\163\061\042\060\040\006\003\125\004\013\023\031\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\151\145\163\061\026\060\024\006\003\125\004\003\023
\015\101\144\155\151\156\055\122\157\157\164\055\103\101
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CKA_ID UTF8 "0"
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\060\154\061\013\060\011\006\003\125\004\006\023\002\143\150\061
\016\060\014\006\003\125\004\012\023\005\141\144\155\151\156\061
\021\060\017\006\003\125\004\013\023\010\123\145\162\166\151\143
\145\163\061\042\060\040\006\003\125\004\013\023\031\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\151\145\163\061\026\060\024\006\003\125\004\003\023
\015\101\144\155\151\156\055\122\157\157\164\055\103\101
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CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\073\363\201\320
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CKA_VALUE MULTILINE_OCTAL
\060\202\005\125\060\202\004\075\240\003\002\001\002\002\004\073
\363\201\320\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\060\154\061\013\060\011\006\003\125\004\006\023\002\143

\150\061\016\060\014\006\003\125\004\012\023\005\141\144\155\151
\156\061\021\060\017\006\003\125\004\013\023\010\123\145\162\166
\151\143\145\163\061\042\060\040\006\003\125\004\013\023\031\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\151\145\163\061\026\060\024\006\003\125\004
\003\023\015\101\144\155\151\156\055\122\157\157\164\055\103\101
\060\036\027\015\060\061\061\061\061\065\060\070\065\061\060\067
\132\027\015\062\061\061\061\061\060\060\067\065\061\060\067\132
\060\154\061\013\060\011\006\003\125\004\006\023\002\143\150\061
\016\060\014\006\003\125\004\012\023\005\141\144\155\151\156\061
\021\060\017\006\003\125\004\013\023\010\123\145\162\166\151\143
\145\163\061\042\060\040\006\003\125\004\013\023\031\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\151\145\163\061\026\060\024\006\003\125\004\003\023
\015\101\144\155\151\156\055\122\157\157\164\055\103\101\060\202
\001\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\001\017\000\060\202\001\012\002\202\001\001\000\313
\340\257\104\024\042\376\152\027\111\362\135\235\317\134\002\142
\013\200\271\132\277\250\125\063\173\243\022\044\136\114\157\073
\101\211\116\203\075\237\263\225\046\064\246\314\022\364\314\235
\207\136\075\014\015\027\057\205\046\076\052\046\131\163\241\250
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\147\263\153\353\357\305\342\371\065\335\014\152\006\266\232\050
\232\160\263\100\051\166\300\161\106\021\153\103\257\345\126\101
\373\346\034\071\203\115\267\366\242\261\146\311\250\015\262\360
\167\276\066\301\040\047\062\271\314\327\132\312\366\027\101\066
\115\373\273\125\201\143\234\223\136\203\153\177\270\025\167\162
\174\175\115\011\153\131\225\346\355\060\253\104\106\331\025\001
\245\133\211\145\266\340\050\331\050\010\225\176\010\043\262\042
\350\337\045\114\074\150\367\156\347\113\307\220\375\204\101\046
\276\134\203\072\327\043\171\267\032\370\007\031\202\132\151\130
\305\377\210\162\053\307\276\370\323\055\063\167\247\026\022\250
\213\041\306\102\256\172\144\257\362\263\300\355\167\344\151\002
\003\001\000\001\243\202\001\375\060\202\001\371\060\017\006\003
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\201\231
\006\003\125\035\040\004\201\221\060\201\216\060\201\213\006\010
\140\205\164\001\021\003\001\000\060\177\060\053\006\010\053\006
\001\005\005\007\002\002\060\037\032\035\124\150\151\163\040\151
\163\040\164\150\145\040\101\144\155\151\156\055\122\157\157\164
\055\103\101\040\103\120\123\060\120\006\010\053\006\001\005\005
\007\002\001\026\104\150\164\164\160\072\057\057\167\167\167\056
\151\156\146\157\162\155\141\164\151\153\056\141\144\155\151\156
\056\143\150\057\120\113\111\057\154\151\156\153\163\057\103\120
\123\137\062\137\061\066\137\067\065\066\137\061\137\061\067\137
\063\137\061\137\060\056\160\144\146\060\177\006\003\125\035\037
\004\170\060\166\060\164\240\162\240\160\244\156\060\154\061\026
\060\024\006\003\125\004\003\023\015\101\144\155\151\156\055\122
\157\157\164\055\103\101\061\042\060\040\006\003\125\004\013\023

\031\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\151\145\163\061\021\060\017\006\003
\125\004\013\023\010\123\145\162\166\151\143\145\163\061\016\060
\014\006\003\125\004\012\023\005\141\144\155\151\156\061\013\060
\011\006\003\125\004\006\023\002\143\150\060\035\006\003\125\035
\016\004\026\004\024\202\237\372\043\163\040\361\227\213\262\114
\115\276\102\305\177\146\315\144\350\060\201\231\006\003\125\035
\043\004\201\221\060\201\216\200\024\202\237\372\043\163\040\361
\227\213\262\114\115\276\102\305\177\146\315\144\350\241\160\244
\156\060\154\061\013\060\011\006\003\125\004\006\023\002\143\150
\061\016\060\014\006\003\125\004\012\023\005\141\144\155\151\156
\061\021\060\017\006\003\125\004\013\023\010\123\145\162\166\151
\143\145\163\061\042\060\040\006\003\125\004\013\023\031\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\151\145\163\061\026\060\024\006\003\125\004\003
\023\015\101\144\155\151\156\055\122\157\157\164\055\103\101\202
\004\073\363\201\320\060\016\006\003\125\035\017\001\001\377\004
\004\003\002\001\006\060\015\006\011\052\206\110\206\367\015\001
\001\005\005\000\003\202\001\001\000\170\117\172\134\046\021\247
\056\256\232\103\312\134\065\202\106\176\310\066\217\172\146\265
\251\062\010\034\014\344\156\241\361\310\301\324\344\200\347\214
\275\143\261\014\337\362\271\076\302\013\161\100\151\106\243\154
\364\133\017\015\041\104\307\052\053\075\032\013\300\240\301\314
\210\312\034\077\254\122\266\366\147\315\114\155\304\276\043\375
\101\053\004\156\167\245\026\170\351\233\134\043\317\201\032\006
\041\143\152\334\051\121\262\072\371\233\367\135\261\055\365\004
\027\006\177\234\350\067\205\055\356\061\274\056\001\370\304\353
\153\216\064\305\071\071\366\224\230\273\037\016\036\021\057\250
\214\007\012\110\242\214\152\231\205\064\267\052\141\205\170\032
\051\151\037\235\045\120\121\004\312\027\303\071\070\007\161\347
\321\230\233\325\321\030\025\226\274\342\363\311\147\053\361\011
\262\316\234\364\103\046\001\372\127\153\220\251\261\276\350\065
\325\151\377\360\071\025\116\274\137\360\317\073\364\276\043\077
\105\146\304\264\226\135\276\217\015\336\307\155\011\102\363\211
\371\361\077\365\164\117\337\270\145
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Admin-Root-CA"
Issuer: CN=Admin-Root-CA,OU=Certification Authorities,OU=Services,O=admin,C=ch
Serial Number:3b:f3:81:d0
Subject: CN=Admin-Root-CA,OU=Certification Authorities,OU=Services,O=admin,C=ch
Not Valid Before: Thu Nov 15 08:51:07 2001
Not Valid After: Wed Nov 10 07:51:07 2021
Fingerprint (MD5): f3:7e:3a:13:dc:74:63:06:74:1a:3c:38:32:8c:fb:a9

Fingerprint (SHA1): 25:3f:77:5b:0e:77:97:ab:64:5f:15:91:55:97:c3:9e:26:36:31:d1
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Admin-Root-CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\045\077\167\133\016\167\227\253\144\137\025\221\125\227\303\236
\046\066\061\321
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\363\176\072\023\334\164\143\006\164\032\074\070\062\214\373\251
END
CKA_ISSUER MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\143\150\061
\016\060\014\006\003\125\004\012\023\005\141\144\155\151\156\061
\021\060\017\006\003\125\004\013\023\010\123\145\162\166\151\143
\145\163\061\042\060\040\006\003\125\004\013\023\031\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\151\145\163\061\026\060\024\006\003\125\004\003\023
\015\101\144\155\151\156\055\122\157\157\164\055\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\073\363\201\320
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "TÜBTAK UEKAE Kök Sertifika Hizmet Salaycs - Sürüm 3"
Issuer: CN=TÜBTAK UEKAE Kök Sertifika Hizmet Salaycs - Sürüm 3,OU=Kamu Sertifikasyon Merkezi,OU=Ulusal Elektronik ve Kriptoloji Aratrma Enstitüsü - UEKAE,O=Türkiye Bilimsel ve Teknolojik Aratrma Kurumu - TÜBTAK,L=Gebze - Kocaeli,C=TR
Serial Number: 17 (0x11)
Subject: CN=TÜBTAK UEKAE Kök Sertifika Hizmet Salaycs - Sürüm 3,OU=Kamu Sertifikasyon Merkezi,OU=Ulusal Elektronik ve Kriptoloji Aratrma Enstitüsü - UEKAE,O=Türkiye Bilimsel ve Teknolojik Aratrma Kurumu - TÜBTAK,L=Gebze - Kocaeli,C=TR
Not Valid Before: Fri Aug 24 11:37:07 2007
Not Valid After: Mon Aug 21 11:37:07 2017
Fingerprint (MD5): ed:41:f5:8c:50:c5:2b:9c:73:e6:ee:6c:eb:c2:a8:26
Fingerprint (SHA1): 1b:4b:39:61:26:27:6b:64:91:a2:68:6d:d7:02:43:21:2d:1f:1d:96
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TÜBTAK UEKAE Kök Sertifika Hizmet Salaycs - Sürüm 3"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\202\001\053\061\013\060\011\006\003\125\004\006\023\002\124
\122\061\030\060\026\006\003\125\004\007\014\017\107\145\142\172
\145\040\055\040\113\157\143\141\145\154\151\061\107\060\105\006
\003\125\004\012\014\076\124\303\274\162\153\151\171\145\040\102
\151\154\151\155\163\145\154\040\166\145\040\124\145\153\156\157
\154\157\152\151\153\040\101\162\141\305\237\164\304\261\162\155
\141\040\113\165\162\165\155\165\040\055\040\124\303\234\102\304
\260\124\101\113\061\110\060\106\006\003\125\004\013\014\077\125
\154\165\163\141\154\040\105\154\145\153\164\162\157\156\151\153
\040\166\145\040\113\162\151\160\164\157\154\157\152\151\040\101
\162\141\305\237\164\304\261\162\155\141\040\105\156\163\164\151
\164\303\274\163\303\274\040\055\040\125\105\113\101\105\061\043
\060\041\006\003\125\004\013\014\032\113\141\155\165\040\123\145
\162\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153
\145\172\151\061\112\060\110\006\003\125\004\003\014\101\124\303
\234\102\304\260\124\101\113\040\125\105\113\101\105\040\113\303
\266\153\040\123\145\162\164\151\146\151\153\141\040\110\151\172
\155\145\164\040\123\141\304\237\154\141\171\304\261\143\304\261
\163\304\261\040\055\040\123\303\274\162\303\274\155\040\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\202\001\053\061\013\060\011\006\003\125\004\006\023\002\124
\122\061\030\060\026\006\003\125\004\007\014\017\107\145\142\172
\145\040\055\040\113\157\143\141\145\154\151\061\107\060\105\006
\003\125\004\012\014\076\124\303\274\162\153\151\171\145\040\102
\151\154\151\155\163\145\154\040\166\145\040\124\145\153\156\157
\154\157\152\151\153\040\101\162\141\305\237\164\304\261\162\155
\141\040\113\165\162\165\155\165\040\055\040\124\303\234\102\304
\260\124\101\113\061\110\060\106\006\003\125\004\013\014\077\125
\154\165\163\141\154\040\105\154\145\153\164\162\157\156\151\153
\040\166\145\040\113\162\151\160\164\157\154\157\152\151\040\101
\162\141\305\237\164\304\261\162\155\141\040\105\156\163\164\151
\164\303\274\163\303\274\040\055\040\125\105\113\101\105\061\043
\060\041\006\003\125\004\013\014\032\113\141\155\165\040\123\145
\162\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153
\145\172\151\061\112\060\110\006\003\125\004\003\014\101\124\303
\234\102\304\260\124\101\113\040\125\105\113\101\105\040\113\303
\266\153\040\123\145\162\164\151\146\151\153\141\040\110\151\172
\155\145\164\040\123\141\304\237\154\141\171\304\261\143\304\261
\163\304\261\040\055\040\123\303\274\162\303\274\155\040\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\021
END
CKA_VALUE MULTILINE_OCTAL

\060\202\005\027\060\202\003\377\240\003\002\001\002\002\001\021
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\202\001\053\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\030\060\026\006\003\125\004\007\014\017\107\145\142\172\145
\040\055\040\113\157\143\141\145\154\151\061\107\060\105\006\003
\125\004\012\014\076\124\303\274\162\153\151\171\145\040\102\151
\154\151\155\163\145\154\040\166\145\040\124\145\153\156\157\154
\157\152\151\153\040\101\162\141\305\237\164\304\261\162\155\141
\040\113\165\162\165\155\165\040\055\040\124\303\234\102\304\260
\124\101\113\061\110\060\106\006\003\125\004\013\014\077\125\154
\165\163\141\154\040\105\154\145\153\164\162\157\156\151\153\040
\166\145\040\113\162\151\160\164\157\154\157\152\151\040\101\162
\141\305\237\164\304\261\162\155\141\040\105\156\163\164\151\164
\303\274\163\303\274\040\055\040\125\105\113\101\105\061\043\060
\041\006\003\125\004\013\014\032\113\141\155\165\040\123\145\162
\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153\145
\172\151\061\112\060\110\006\003\125\004\003\014\101\124\303\234
\102\304\260\124\101\113\040\125\105\113\101\105\040\113\303\266
\153\040\123\145\162\164\151\146\151\153\141\040\110\151\172\155
\145\164\040\123\141\304\237\154\141\171\304\261\143\304\261\163
\304\261\040\055\040\123\303\274\162\303\274\155\040\063\060\036
\027\015\060\067\060\070\062\064\061\061\063\067\060\067\132\027
\015\061\067\060\070\062\061\061\061\063\067\060\067\132\060\202
\001\053\061\013\060\011\006\003\125\004\006\023\002\124\122\061
\030\060\026\006\003\125\004\007\014\017\107\145\142\172\145\040
\055\040\113\157\143\141\145\154\151\061\107\060\105\006\003\125
\004\012\014\076\124\303\274\162\153\151\171\145\040\102\151\154
\151\155\163\145\154\040\166\145\040\124\145\153\156\157\154\157
\152\151\153\040\101\162\141\305\237\164\304\261\162\155\141\040
\113\165\162\165\155\165\040\055\040\124\303\234\102\304\260\124
\101\113\061\110\060\106\006\003\125\004\013\014\077\125\154\165
\163\141\154\040\105\154\145\153\164\162\157\156\151\153\040\166
\145\040\113\162\151\160\164\157\154\157\152\151\040\101\162\141
\305\237\164\304\261\162\155\141\040\105\156\163\164\151\164\303
\274\163\303\274\040\055\040\125\105\113\101\105\061\043\060\041
\006\003\125\004\013\014\032\113\141\155\165\040\123\145\162\164
\151\146\151\153\141\163\171\157\156\040\115\145\162\153\145\172
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\304\260\124\101\113\040\125\105\113\101\105\040\113\303\266\153
\040\123\145\162\164\151\146\151\153\141\040\110\151\172\155\145
\164\040\123\141\304\237\154\141\171\304\261\143\304\261\163\304
\261\040\055\040\123\303\274\162\303\274\155\040\063\060\202\001
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000
\003\202\001\017\000\060\202\001\012\002\202\001\001\000\212\155
\113\377\020\210\072\303\366\176\224\350\352\040\144\160\256\041
\201\276\072\173\074\333\361\035\122\177\131\372\363\042\114\225
\240\220\274\110\116\021\253\373\267\265\215\172\203\050\214\046
\106\330\116\225\100\207\141\237\305\236\155\201\207\127\154\212

\073\264\146\352\314\100\374\343\252\154\262\313\001\333\062\277
\322\353\205\317\241\015\125\303\133\070\127\160\270\165\306\171
\321\024\060\355\033\130\133\153\357\065\362\241\041\116\305\316
\174\231\137\154\271\270\042\223\120\247\315\114\160\152\276\152
\005\177\023\234\053\036\352\376\107\316\004\245\157\254\223\056
\174\053\237\236\171\023\221\350\352\236\312\070\165\216\142\260
\225\223\052\345\337\351\136\227\156\040\137\137\204\172\104\071
\031\100\034\272\125\053\373\060\262\201\357\204\343\334\354\230
\070\071\003\205\010\251\124\003\005\051\360\311\217\213\352\013
\206\145\031\021\323\351\011\043\336\150\223\003\311\066\034\041
\156\316\214\146\361\231\060\330\327\263\303\035\370\201\056\250
\275\202\013\146\376\202\313\341\340\032\202\303\100\201\002\003
\001\000\001\243\102\060\100\060\035\006\003\125\035\016\004\026
\004\024\275\210\207\311\217\366\244\012\013\252\353\305\376\221
\043\235\253\112\212\062\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\015\006\011\052\206\110\206\367
\015\001\001\005\005\000\003\202\001\001\000\035\174\372\111\217
\064\351\267\046\222\026\232\005\164\347\113\320\155\071\154\303
\046\366\316\270\061\274\304\337\274\052\370\067\221\030\334\004
\310\144\231\053\030\155\200\003\131\311\256\370\130\320\076\355
\303\043\237\151\074\206\070\034\236\357\332\047\170\321\204\067
\161\212\074\113\071\317\176\105\006\326\055\330\212\115\170\022
\326\255\302\323\313\322\320\101\363\046\066\112\233\225\154\014
\356\345\321\103\047\146\301\210\367\172\263\040\154\352\260\151
\053\307\040\350\014\003\304\101\005\231\342\077\344\153\370\240
\206\201\307\204\306\037\325\113\201\022\262\026\041\054\023\241
\200\262\136\014\112\023\236\040\330\142\100\253\220\352\144\112
\057\254\015\001\022\171\105\250\057\207\031\150\310\342\205\307
\060\262\165\371\070\077\262\300\223\264\153\342\003\104\316\147
\240\337\211\326\255\214\166\243\023\303\224\141\053\153\331\154
\301\007\012\042\007\205\154\205\044\106\251\276\077\213\170\204
\202\176\044\014\235\375\201\067\343\045\250\355\066\116\225\054
\311\234\220\332\354\251\102\074\255\266\002
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "TÜBTAK UEKAE Kök Sertifika Hizmet Salaycs - Sürüm 3"
Issuer: CN=TÜBTAK UEKAE Kök Sertifika Hizmet Salaycs - Sürüm 3,OU=Kamu Sertifikasyon Merkezi,OU=Ulusal Elektronik ve Kriptoloji Aratrma Enstitüsü - UEKAE,O=Türkiye Bilimsel ve Teknolojik Aratrma Kurumu - TÜBTAK,L=Gebze - Kocaeli,C=TR
Serial Number: 17 (0x11)
Subject: CN=TÜBTAK UEKAE Kök Sertifika Hizmet Salaycs - Sürüm 3,OU=Kamu Sertifikasyon Merkezi,OU=Ulusal Elektronik ve Kriptoloji Aratrma Enstitüsü - UEKAE,O=Türkiye Bilimsel ve Teknolojik Aratrma Kurumu - TÜBTAK,L=Gebze - Kocaeli,C=TR

```
# Not Valid Before: Fri Aug 24 11:37:07 2007
# Not Valid After: Mon Aug 21 11:37:07 2017
# Fingerprint (MD5): ed:41:f5:8c:50:c5:2b:9c:73:e6:ee:6c:eb:c2:a8:26
# Fingerprint (SHA1): 1b:4b:39:61:26:27:6b:64:91:a2:68:6d:d7:02:43:21:2d:1f:1d:96
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TÜBTAK UEKAE Kök Sertifika Hizmet Salaycs - Sürüm 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\033\113\071\141\046\047\153\144\221\242\150\155\327\002\103\041
\055\037\035\226
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\355\101\365\214\120\305\053\234\163\346\356\154\353\302\250\046
END
CKA_ISSUER MULTILINE_OCTAL
\060\202\001\053\061\013\060\011\006\003\125\004\006\023\002\124
\122\061\030\060\026\006\003\125\004\007\014\017\107\145\142\172
\145\040\055\040\113\157\143\141\145\154\151\061\107\060\105\006
\003\125\004\012\014\076\124\303\274\162\153\151\171\145\040\102
\151\154\151\155\163\145\154\040\166\145\040\124\145\153\156\157
\154\157\152\151\153\040\101\162\141\305\237\164\304\261\162\155
\141\040\113\165\162\165\155\165\040\055\040\124\303\234\102\304
\260\124\101\113\061\110\060\106\006\003\125\004\013\014\077\125
\154\165\163\141\154\040\105\154\145\153\164\162\157\156\151\153
\040\166\145\040\113\162\151\160\164\157\154\157\152\151\040\101
\162\141\305\237\164\304\261\162\155\141\040\105\156\163\164\151
\164\303\274\163\303\274\040\055\040\125\105\113\101\105\061\043
\060\041\006\003\125\004\013\014\032\113\141\155\165\040\123\145
\162\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153
\145\172\151\061\112\060\110\006\003\125\004\003\014\101\124\303
\234\102\304\260\124\101\113\040\125\105\113\101\105\040\113\303
\266\153\040\123\145\162\164\151\146\151\153\141\040\110\151\172
\155\145\164\040\123\141\304\237\154\141\171\304\261\143\304\261
\163\304\261\040\055\040\123\303\274\162\303\274\155\040\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\021
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Halcom CA FO"
# Issuer: CN=Halcom CA FO,O=Halcom,C=SI
```

```
# Serial Number: 113253 (0x1ba65)
# Subject: CN=Halcom CA FO,O=Halcom,C=SI
# Not Valid Before: Sun Jun 05 10:33:31 2005
# Not Valid After: Fri Jun 05 10:33:31 2020
# Fingerprint (MD5): 0b:09:2c:1c:d7:21:86:6f:94:37:6f:e6:a7:f3:22:4d
# Fingerprint (SHA1): 04:09:56:5b:77:da:58:2e:64:95:ac:00:60:a7:23:54:e6:4b:01:92
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Halcom CA FO"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\065\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\017\060\015\006\003\125\004\012\023\006\110\141\154\143\157\155
\061\025\060\023\006\003\125\004\003\023\014\110\141\154\143\157
\155\040\103\101\040\106\117
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\065\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\017\060\015\006\003\125\004\012\023\006\110\141\154\143\157\155
\061\025\060\023\006\003\125\004\003\023\014\110\141\154\143\157
\155\040\103\101\040\106\117
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\001\272\145
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\032\060\202\002\002\240\003\002\001\002\002\003\001
\272\145\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\000\060\065\061\013\060\011\006\003\125\004\006\023\002\123\111
\061\017\060\015\006\003\125\004\012\023\006\110\141\154\143\157
\155\061\025\060\023\006\003\125\004\003\023\014\110\141\154\143
\157\155\040\103\101\040\106\117\060\036\027\015\060\065\060\066
\060\065\061\060\063\063\063\061\132\027\015\062\060\060\066\060
\065\061\060\063\063\063\061\132\060\065\061\013\060\011\006\003
\125\004\006\023\002\123\111\061\017\060\015\006\003\125\004\012
\023\006\110\141\154\143\157\155\061\025\060\023\006\003\125\004
\003\023\014\110\141\154\143\157\155\040\103\101\040\106\117\060
\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001\001
\005\000\003\202\001\017\000\060\202\001\012\002\202\001\001\000
\274\243\046\001\226\345\235\254\032\002\002\071\174\254\334\006
\114\067\112\256\007\110\165\350\047\034\244\061\375\012\247\043
\135\174\077\016\372\360\214\221\157\125\064\204\003\164\314\003
\065\170\315\161\301\107\033\273\352\041\156\270\007\336\041\222
\252\254\271\336\067\242\037\364\232\034\033\310\356\020\203\326
\123\103\310\335\351\363\220\106\071\162\012\116\374\022\051\111
```

\201\130\046\072\161\023\014\173\123\217\337\146\162\074\027\334
\336\341\171\112\237\351\140\076\155\065\344\115\121\321\034\300
\032\060\134\006\077\163\103\310\315\066\364\036\302\207\214\117
\110\237\332\165\127\052\114\257\215\124\074\104\137\230\074\120
\332\320\030\006\174\140\156\322\204\377\147\205\220\075\136\306
\353\330\172\243\265\155\014\276\165\270\251\332\126\161\066\132
\356\353\111\123\076\342\031\166\174\102\253\241\220\361\367\057
\270\272\112\101\264\053\244\056\141\066\347\326\332\177\365\237
\215\270\113\133\204\065\120\305\275\005\252\252\302\014\164\101
\143\127\031\216\377\341\106\346\173\005\044\376\231\335\061\275
\002\003\001\000\001\243\063\060\061\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\021\006\003\125\035
\016\004\012\004\010\110\040\034\142\015\130\122\045\060\013\006
\003\125\035\017\004\004\003\002\001\006\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\003\202\001\001\000\133\165
\365\346\060\106\130\212\367\017\321\117\013\001\130\004\271\144
\344\060\015\076\166\331\153\023\255\034\156\311\114\360\154\346
\102\021\375\353\203\357\120\330\273\124\235\264\221\212\132\265
\204\017\214\106\315\074\202\250\245\036\040\234\320\365\101\006
\312\001\053\230\260\352\051\120\037\342\164\173\131\202\312\012
\345\156\116\256\260\067\355\076\314\272\062\331\077\013\150\054
\262\323\074\334\070\305\021\326\033\063\356\271\242\152\104\223
\033\120\352\141\033\171\127\121\126\236\062\320\063\170\264\317
\107\052\373\367\315\361\347\155\340\272\144\373\025\233\276\312
\261\362\107\001\177\340\114\267\245\101\254\036\331\032\154\221
\341\320\250\112\303\136\170\053\172\200\300\117\315\045\137\120
\047\306\274\130\165\234\035\265\232\135\225\163\363\204\146\323
\315\155\035\315\340\132\316\040\070\357\222\163\170\136\002\326
\215\371\164\324\267\211\330\214\373\173\325\213\161\325\031\027
\046\330\044\111\074\125\274\202\207\332\143\273\071\327\216\221
\317\064\160\134\163\117\320\120\107\132\373\345\132\121
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Halcom CA FO"
Issuer: CN=Halcom CA FO,O=Halcom,C=SI
Serial Number: 113253 (0x1ba65)
Subject: CN=Halcom CA FO,O=Halcom,C=SI
Not Valid Before: Sun Jun 05 10:33:31 2005
Not Valid After: Fri Jun 05 10:33:31 2020
Fingerprint (MD5): 0b:09:2c:1c:d7:21:86:6f:94:37:6f:e6:a7:f3:22:4d
Fingerprint (SHA1): 04:09:56:5b:77:da:58:2e:64:95:ac:00:60:a7:23:54:e6:4b:01:92
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Halcom CA FO"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\004\011\126\133\167\332\130\056\144\225\254\000\140\247\043\124
\346\113\001\222
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\013\011\054\034\327\041\206\157\224\067\157\346\247\363\042\115
END
CKA_ISSUER MULTILINE_OCTAL
\060\065\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\017\060\015\006\003\125\004\012\023\006\110\141\154\143\157\155
\061\025\060\023\006\003\125\004\003\023\014\110\141\154\143\157
\155\040\103\101\040\106\117
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\001\272\145
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Halcom CA PO 2"
Issuer: CN=Halcom CA PO 2,O=Halcom,C=SI
Serial Number: 79074 (0x134e2)
Subject: CN=Halcom CA PO 2,O=Halcom,C=SI
Not Valid Before: Sat Feb 07 18:33:31 2004
Not Valid After: Thu Feb 07 18:33:31 2019
Fingerprint (MD5): 1d:64:96:af:2d:82:1a:30:0b:a0:62:0d:76:bc:53:aa
Fingerprint (SHA1): 7f:bb:6a:cd:7e:0a:b4:38:da:af:6f:d5:02:10:d0:07:c6:c0:82:9c
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Halcom CA PO 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\067\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\017\060\015\006\003\125\004\012\023\006\110\141\154\143\157\155
\061\027\060\025\006\003\125\004\003\023\016\110\141\154\143\157
\155\040\103\101\040\120\117\040\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\067\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\017\060\015\006\003\125\004\012\023\006\110\141\154\143\157\155

\061\027\060\025\006\003\125\004\003\023\016\110\141\154\143\157
\155\040\103\101\040\120\117\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\001\064\342
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\031\060\202\001\202\240\003\002\001\002\002\003\001
\064\342\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\000\060\067\061\013\060\011\006\003\125\004\006\023\002\123\111
\061\017\060\015\006\003\125\004\012\023\006\110\141\154\143\157
\155\061\027\060\025\006\003\125\004\003\023\016\110\141\154\143
\157\155\040\103\101\040\120\117\040\062\060\036\027\015\060\064
\060\062\060\067\061\070\063\063\063\061\132\027\015\061\071\060
\062\060\067\061\070\063\063\063\061\132\060\067\061\013\060\011
\006\003\125\004\006\023\002\123\111\061\017\060\015\006\003\125
\004\012\023\006\110\141\154\143\157\155\061\027\060\025\006\003
\125\004\003\023\016\110\141\154\143\157\155\040\103\101\040\120
\117\040\062\060\201\237\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\201\215\000\060\201\211\002\201\201\000
\224\027\362\111\067\060\062\011\010\074\276\365\067\267\164\154
\020\073\313\042\161\007\006\271\306\354\332\110\363\237\047\155
\144\215\125\336\171\107\120\373\150\316\171\001\276\247\033\366
\141\255\175\061\013\123\040\255\061\361\133\316\043\372\377\314
\022\002\132\000\234\374\315\153\022\122\350\254\324\063\073\163
\046\020\161\220\100\277\003\210\337\274\137\041\015\214\326\212
\223\037\347\256\025\124\306\114\344\231\141\222\340\367\215\162
\307\334\142\023\063\243\076\111\051\373\204\277\160\072\221\041
\002\003\001\000\001\243\063\060\061\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\021\006\003\125\035
\016\004\012\004\010\110\257\127\146\277\322\300\002\060\013\006
\003\125\035\017\004\004\003\002\001\006\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\003\201\201\000\220\026\127
\166\270\171\316\374\304\321\067\000\242\315\377\070\007\021\163
\023\005\111\355\337\301\305\316\306\100\330\367\002\226\015\267
\157\021\204\070\146\373\161\367\020\001\147\174\135\175\044\332
\366\144\073\010\200\110\246\116\275\104\342\260\007\062\217\174
\206\067\106\157\300\203\003\223\265\364\363\022\174\243\350\313
\342\072\043\170\372\150\157\376\130\312\014\247\127\121\055\142
\220\371\344\250\334\365\312\337\016\207\121\156\067\165\046\016
\327\176\170\212\003\242\225\031\266\136\221\001\126
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Halcom CA PO 2"

```
# Issuer: CN=Halcom CA PO 2,O=Halcom,C=SI
# Serial Number: 79074 (0x134e2)
# Subject: CN=Halcom CA PO 2,O=Halcom,C=SI
# Not Valid Before: Sat Feb 07 18:33:31 2004
# Not Valid After: Thu Feb 07 18:33:31 2019
# Fingerprint (MD5): 1d:64:96:af:2d:82:1a:30:0b:a0:62:0d:76:bc:53:aa
# Fingerprint (SHA1): 7f:bb:6a:cd:7e:0a:b4:38:da:af:6f:d5:02:10:d0:07:c6:c0:82:9c
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Halcom CA PO 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\177\273\152\315\176\012\264\070\332\257\157\325\002\020\320\007
\306\300\202\234
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\035\144\226\257\055\202\032\060\013\240\142\015\166\274\123\252
END
CKA_ISSUER MULTILINE_OCTAL
\060\067\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\017\060\015\006\003\125\004\012\023\006\110\141\154\143\157\155
\061\027\060\025\006\003\125\004\003\023\016\110\141\154\143\157
\155\040\103\101\040\120\117\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\001\064\342
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Root CA"
# Issuer: CN=Root CA,OU=GPKI,O=Government of Korea,C=KR
# Serial Number:3c:c2:81:4b:00:e7:52:4d:9b:aa:47:b7:e1:61:f5:0e
# Subject: CN=Root CA,OU=GPKI,O=Government of Korea,C=KR
# Not Valid Before: Sun Apr 21 09:07:23 2002
# Not Valid After: Sat Apr 21 09:07:23 2012
# Fingerprint (MD5): c7:bd:11:d6:91:8a:35:82:c5:36:66:01:7c:6f:47:79
# Fingerprint (SHA1): 63:4c:3b:02:30:cf:1b:78:b4:56:9f:ec:f2:c0:4a:86:52:ef:ef:0e
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
```

CKA_SUBJECT MULTILINE_OCTAL
\060\114\061\013\060\011\006\003\125\004\006\023\002\113\122\061
\034\060\032\006\003\125\004\012\023\023\107\157\166\145\162\156
\155\145\156\164\040\157\146\040\113\157\162\145\141\061\015\060
\013\006\003\125\004\013\023\004\107\120\113\111\061\020\060\016
\006\003\125\004\003\023\007\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\013\060\011\006\003\125\004\006\023\002\113\122\061
\034\060\032\006\003\125\004\012\023\023\107\157\166\145\162\156
\155\145\156\164\040\157\146\040\113\157\162\145\141\061\015\060
\013\006\003\125\004\013\023\004\107\120\113\111\061\020\060\016
\006\003\125\004\003\023\007\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\074\302\201\113\000\347\122\115\233\252\107\267\341\141
\365\016
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\231\060\202\002\201\240\003\002\001\002\002\020\074
\302\201\113\000\347\122\115\233\252\107\267\341\141\365\016\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\114
\061\013\060\011\006\003\125\004\006\023\002\113\122\061\034\060
\032\006\003\125\004\012\023\023\107\157\166\145\162\156\155\145
\156\164\040\157\146\040\113\157\162\145\141\061\015\060\013\006
\003\125\004\013\023\004\107\120\113\111\061\020\060\016\006\003
\125\004\003\023\007\122\157\157\164\040\103\101\060\036\027\015
\060\062\060\064\062\061\060\071\060\067\062\063\132\027\015\061
\062\060\064\062\061\060\071\060\067\062\063\132\060\114\061\013
\060\011\006\003\125\004\006\023\002\113\122\061\034\060\032\006
\003\125\004\012\023\023\107\157\166\145\162\156\155\145\156\164
\040\157\146\040\113\157\162\145\141\061\015\060\013\006\003\125
\004\013\023\004\107\120\113\111\061\020\060\016\006\003\125\004
\003\023\007\122\157\157\164\040\103\101\060\202\001\041\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001
\016\000\060\202\001\011\002\202\001\000\100\326\241\102\027\054
\125\100\337\232\172\303\221\364\343\275\221\053\365\333\134\146
\057\211\134\375\170\324\011\114\075\247\304\234\056\372\360\131
\266\275\264\322\215\050\010\253\257\023\101\256\200\102\364\353
\134\055\137\176\103\172\065\265\257\077\334\304\075\066\105\222
\262\270\176\015\274\254\307\301\144\330\336\155\316\263\244\216
\120\176\110\364\255\216\331\206\031\065\003\212\167\050\165\055
\202\133\112\354\245\313\161\002\364\104\061\203\112\171\354\316
\145\377\034\241\063\146\257\133\062\145\376\346\255\207\047\114
\375\117\030\011\230\144\176\077\316\067\126\363\302\340\306\231
\233\000\113\067\230\357\034\143\052\225\256\255\003\317\072\134
\042\016\075\331\365\160\161\166\373\104\317\053\000\041\046\160

\072\341\252\353\315\111\373\073\142\270\164\132\126\245\362\054
\222\076\265\000\274\204\277\140\343\102\156\215\243\340\144\266
\255\245\103\230\367\141\337\305\350\340\360\325\246\275\240\151
\157\162\156\216\215\017\313\366\370\353\366\314\133\163\235\325
\055\361\316\027\333\336\010\177\334\215\002\003\001\000\001\243
\170\060\166\060\037\006\003\125\035\043\004\030\060\026\200\024
\002\023\356\256\034\040\070\054\251\360\157\352\137\237\007\072
\223\357\107\164\060\035\006\003\125\035\016\004\026\004\024\002
\023\356\256\034\040\070\054\251\360\157\352\137\237\007\072\223
\357\107\164\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\006\060\023\006\003\125\035\040\004\014\060\012\060\010
\006\004\125\035\040\000\060\000\060\017\006\003\125\035\023\001
\001\377\004\005\060\003\001\001\377\060\015\006\011\052\206\110
\206\367\015\001\001\005\005\000\003\202\001\001\000\001\250\251
\310\046\174\254\076\264\367\266\222\301\176\363\250\220\155\175
\027\314\150\014\104\302\345\014\122\370\261\002\117\312\071\073
\127\130\346\337\277\144\012\215\106\264\324\331\262\347\203\007
\255\113\375\021\277\357\347\231\300\211\335\270\304\247\350\055
\204\222\315\037\327\030\307\173\206\117\353\271\136\136\311\325
\260\340\364\372\366\244\301\220\346\155\334\366\016\113\341\357
\335\065\071\376\361\306\154\220\101\244\141\211\043\346\244\077
\143\147\272\361\236\167\343\016\355\052\173\343\172\045\163\110
\067\177\171\345\052\123\006\331\214\262\010\157\064\004\133\211
\166\007\253\054\243\050\001\377\023\122\164\240\023\123\221\146
\070\302\211\245\031\110\112\060\270\304\276\144\334\354\237\060
\131\232\146\305\226\037\175\023\060\352\175\012\337\326\275\202
\060\050\350\115\215\332\160\312\200\233\034\150\025\174\103\263
\212\365\057\151\004\206\027\017\060\242\217\321\066\327\215\031
\112\152\153\070\027\144\053\273\011\322\253\326\021\256\366\247
\271\053\220\147\212\052\004\332\066\223\033\174\076
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Root CA"
Issuer: CN=Root CA,OU=GPKI,O=Government of Korea,C=KR
Serial Number:3c:c2:81:4b:00:e7:52:4d:9b:aa:47:b7:e1:61:f5:0e
Subject: CN=Root CA,OU=GPKI,O=Government of Korea,C=KR
Not Valid Before: Sun Apr 21 09:07:23 2002
Not Valid After: Sat Apr 21 09:07:23 2012
Fingerprint (MD5): c7:bd:11:d6:91:8a:35:82:c5:36:66:01:7c:6f:47:79
Fingerprint (SHA1): 63:4c:3b:02:30:cf:1b:78:b4:56:9f:ec:f2:c0:4a:86:52:ef:ef:0e
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

```
CKA_LABEL UTF8 "Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\143\114\073\002\060\317\033\170\264\126\237\354\362\300\112\206
\122\357\357\016
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\307\275\021\326\221\212\065\202\305\066\146\001\174\157\107\171
END
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\013\060\011\006\003\125\004\006\023\002\113\122\061
\034\060\032\006\003\125\004\012\023\023\107\157\166\145\162\156
\155\145\156\164\040\157\146\040\113\157\162\145\141\061\015\060
\013\006\003\125\004\013\023\004\107\120\113\111\061\020\060\016
\006\003\125\004\003\023\007\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\074\302\201\113\000\347\122\115\233\252\107\267\341\141
\365\016
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "GPKIRootCA"
# Issuer: CN=GPKIRootCA,OU=GPKI,O=Government of Korea,C=KR
# Serial Number:45:f8:e0:e4:01:c5:3e:71:e6:bd:71:6d:97:9c:41:23
# Subject: CN=GPKIRootCA,OU=GPKI,O=Government of Korea,C=KR
# Not Valid Before: Thu Mar 15 06:00:04 2007
# Not Valid After: Wed Mar 15 06:00:04 2017
# Fingerprint (MD5): b4:81:9e:89:ac:17:24:fd:2a:42:85:27:1d:0c:2b:5d
# Fingerprint (SHA1): 20:cb:59:4f:b4:ed:d8:95:76:3f:d5:25:4e:95:9a:66:74:c6:ee:b2
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GPKIRootCA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\113\122\061
\034\060\032\006\003\125\004\012\023\023\107\157\166\145\162\156
\155\145\156\164\040\157\146\040\113\157\162\145\141\061\015\060
\013\006\003\125\004\013\023\004\107\120\113\111\061\023\060\021
\006\003\125\004\003\023\012\107\120\113\111\122\157\157\164\103
\101
END
CKA_ID UTF8 "0"
```

CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\113\122\061
\034\060\032\006\003\125\004\012\023\023\107\157\166\145\162\156
\155\145\156\164\040\157\146\040\113\157\162\145\141\061\015\060
\013\006\003\125\004\013\023\004\107\120\113\111\061\023\060\021
\006\003\125\004\003\023\012\107\120\113\111\122\157\157\164\103
\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\105\370\340\344\001\305\076\161\346\275\161\155\227\234
\101\043
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\212\060\202\002\162\240\003\002\001\002\002\020\105
\370\340\344\001\305\076\161\346\275\161\155\227\234\101\043\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\117
\061\013\060\011\006\003\125\004\006\023\002\113\122\061\034\060
\032\006\003\125\004\012\023\023\107\157\166\145\162\156\155\145
\156\164\040\157\146\040\113\157\162\145\141\061\015\060\013\006
\003\125\004\013\023\004\107\120\113\111\061\023\060\021\006\003
\125\004\003\023\012\107\120\113\111\122\157\157\164\103\101\060
\036\027\015\060\067\060\063\061\065\060\066\060\060\060\064\132
\027\015\061\067\060\063\061\065\060\066\060\060\060\064\132\060
\117\061\013\060\011\006\003\125\004\006\023\002\113\122\061\034
\060\032\006\003\125\004\012\023\023\107\157\166\145\162\156\155
\145\156\164\040\157\146\040\113\157\162\145\141\061\015\060\013
\006\003\125\004\013\023\004\107\120\113\111\061\023\060\021\006
\003\125\004\003\023\012\107\120\113\111\122\157\157\164\103\101
\060\202\001\041\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\001\016\000\060\202\001\011\002\202\001\000
\132\053\101\025\233\333\166\046\001\360\124\162\013\207\023\037
\240\320\077\226\252\015\263\064\201\336\110\132\237\363\160\132
\302\361\072\236\004\360\116\224\171\227\341\364\265\024\114\327
\157\304\213\030\267\334\022\053\035\012\233\356\040\014\133\217
\377\371\257\202\236\230\106\320\075\135\050\363\227\026\301\134
\345\126\277\104\244\000\241\172\313\233\172\133\334\324\355\373
\362\240\002\147\000\036\104\345\212\001\334\245\243\116\376\326
\014\147\312\111\271\360\320\240\371\115\037\003\323\206\357\015
\205\165\115\363\355\373\315\152\146\004\127\364\127\233\254\146
\212\117\302\250\117\161\211\011\335\114\000\337\226\273\325\220
\012\264\266\152\155\306\277\323\231\051\377\142\360\020\332\105
\254\011\162\013\202\020\350\025\250\213\137\342\242\132\171\036
\302\147\375\351\104\127\013\003\320\041\025\121\260\000\363\217
\155\342\043\360\111\041\331\155\317\142\075\354\353\375\050\222
\001\077\172\243\162\174\353\363\256\347\370\012\354\156\255\172
\233\125\311\060\113\234\266\141\106\153\130\032\376\237\110\035
\002\003\001\000\001\243\143\060\141\060\037\006\003\125\035\043
\004\030\060\026\200\024\026\147\062\364\150\136\150\061\107\333

\355\354\316\141\056\232\044\106\304\175\060\035\006\003\125\035
\016\004\026\004\024\026\147\062\364\150\136\150\061\107\333\355
\354\316\141\056\232\044\106\304\175\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\001\256\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\003\202\001\001\000\065\143
\122\306\140\030\034\267\302\301\132\130\002\354\007\325\241\220
\223\374\200\107\320\122\170\253\205\370\166\323\270\260\030\062
\240\266\220\150\023\146\075\157\257\216\334\366\243\304\316\071
\137\257\355\012\146\340\174\021\310\014\313\236\037\070\051\212
\213\336\310\143\056\307\264\322\316\066\221\224\340\117\204\222
\266\252\042\250\375\061\247\063\110\311\133\366\023\330\026\026
\353\037\077\245\116\006\223\072\331\006\145\060\226\372\215\006
\333\241\032\364\053\372\017\150\360\301\053\174\235\005\327\011
\102\073\322\057\221\220\374\016\153\070\133\262\165\251\127\234
\127\144\365\230\040\244\377\324\060\004\344\316\037\220\311\057
\301\337\132\126\270\313\252\252\264\277\353\270\367\042\112\115
\301\065\364\145\275\170\274\157\170\033\126\072\201\350\015\365
\302\245\027\060\323\215\127\167\313\245\301\114\261\060\335\064
\270\253\222\012\042\002\066\213\366\154\367\141\271\010\356\060
\255\032\250\104\361\056\062\354\203\242\110\110\072\147\137\351
\157\033\027\063\010\052\301\311\303\147\232\016\205\147
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "GPKIRootCA"
Issuer: CN=GPKIRootCA,OU=GPKI,O=Government of Korea,C=KR
Serial Number:45:f8:e0:e4:01:c5:3e:71:e6:bd:71:6d:97:9c:41:23
Subject: CN=GPKIRootCA,OU=GPKI,O=Government of Korea,C=KR
Not Valid Before: Thu Mar 15 06:00:04 2007
Not Valid After: Wed Mar 15 06:00:04 2017
Fingerprint (MD5): b4:81:9e:89:ac:17:24:fd:2a:42:85:27:1d:0c:2b:5d
Fingerprint (SHA1): 20:cb:59:4f:b4:ed:d8:95:76:3f:d5:25:4e:95:9a:66:74:c6:ee:b2
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GPKIRootCA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\040\313\131\117\264\355\330\225\166\077\325\045\116\225\232\146
\164\306\356\262
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\264\201\236\211\254\027\044\375\052\102\205\047\035\014\053\135
END

CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\113\122\061
\034\060\032\006\003\125\004\012\023\023\107\157\166\145\162\156
\155\145\156\164\040\157\146\040\113\157\162\145\141\061\015\060
\013\006\003\125\004\013\023\004\107\120\113\111\061\023\060\021
\006\003\125\004\003\023\012\107\120\113\111\122\157\157\164\103
\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\105\370\340\344\001\305\076\161\346\275\161\155\227\234
\101\043
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "ACNLB"
Issuer: O=ACNLB,C=SI
Serial Number:3e:c3:86:8e
Subject: O=ACNLB,C=SI
Not Valid Before: Thu May 15 11:52:45 2003
Not Valid After: Mon May 15 12:22:45 2023
Fingerprint (MD5): ba:92:64:42:16:1f:cb:a1:16:48:1a:f6:40:5c:59:87
Fingerprint (SHA1): 04:56:f2:3d:1e:9c:43:ae:cb:0d:80:7f:1c:06:47:55:1a:05:f4:56
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ACNLB"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\035\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\016\060\014\006\003\125\004\012\023\005\101\103\116\114\102
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\035\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\016\060\014\006\003\125\004\012\023\005\101\103\116\114\102
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\076\303\206\216
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\267\060\202\002\237\240\003\002\001\002\002\004\076
\303\206\216\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\060\035\061\013\060\011\006\003\125\004\006\023\002\123

\111\061\016\060\014\006\003\125\004\012\023\005\101\103\116\114
\102\060\036\027\015\060\063\060\065\061\065\061\061\065\062\064
\065\132\027\015\062\063\060\065\061\065\061\062\062\062\064\065
\132\060\035\061\013\060\011\006\003\125\004\006\023\002\123\111
\061\016\060\014\006\003\125\004\012\023\005\101\103\116\114\102
\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001\001
\000\277\166\165\075\014\174\100\072\146\137\115\214\373\335\074
\056\376\175\224\144\355\112\324\111\110\241\356\221\161\262\171
\310\216\053\037\252\360\062\264\050\262\243\302\165\117\244\351
\246\032\366\242\146\141\043\047\141\054\156\027\220\013\372\336
\036\161\122\002\051\004\231\171\254\300\260\300\146\230\230\021
\067\144\020\317\234\274\073\102\034\051\134\125\220\366\172\042
\116\126\257\067\150\277\164\072\154\074\306\230\314\140\041\277
\342\010\047\344\331\053\274\343\204\225\327\324\044\140\374\176
\055\057\235\041\353\235\221\306\273\244\321\353\311\022\255\243
\350\310\265\177\125\113\353\231\002\124\304\201\034\014\256\071
\344\152\172\005\330\116\160\240\372\003\167\263\256\330\270\024
\222\373\101\167\023\065\152\267\242\312\210\113\255\055\121\274
\166\232\154\273\100\275\347\044\114\042\246\346\375\116\010\173
\235\013\020\326\022\322\246\306\241\144\062\364\001\163\226\201
\342\110\260\301\050\143\075\073\347\147\254\156\305\024\365\027
\023\242\234\037\053\127\360\025\047\165\135\335\261\064\326\223
\021\002\003\001\000\001\243\201\376\060\201\373\060\021\006\011
\140\206\110\001\206\370\102\001\001\004\004\003\002\000\007\060
\077\006\003\125\035\037\004\070\060\066\060\064\240\062\240\060
\244\056\060\054\061\013\060\011\006\003\125\004\006\023\002\123
\111\061\016\060\014\006\003\125\004\012\023\005\101\103\116\114
\102\061\015\060\013\006\003\125\004\003\023\004\103\122\114\061
\060\053\006\003\125\035\020\004\044\060\042\200\017\062\060\060
\063\060\065\061\065\061\061\065\062\064\065\132\201\017\062\060
\062\063\060\065\061\065\061\062\062\062\064\065\132\060\013\006
\003\125\035\017\004\004\003\002\001\006\060\037\006\003\125\035
\043\004\030\060\026\200\024\314\273\273\206\326\157\370\276\264
\107\042\167\263\266\255\327\001\131\226\115\060\035\006\003\125
\035\016\004\026\004\024\314\273\273\206\326\157\370\276\264\107
\042\167\263\266\255\327\001\131\226\115\060\014\006\003\125\035
\023\004\005\060\003\001\001\377\060\035\006\011\052\206\110\206
\366\175\007\101\000\004\020\060\016\033\010\126\066\056\060\072
\064\056\060\003\002\004\220\060\015\006\011\052\206\110\206\367
\015\001\001\005\005\000\003\202\001\001\000\021\147\313\313\232
\153\040\041\335\157\151\203\325\077\015\272\223\025\227\116\160
\166\046\134\350\236\044\347\067\376\074\120\364\324\371\052\057
\014\023\241\135\004\274\320\260\351\302\003\027\205\005\141\075
\300\247\252\166\114\303\270\072\203\251\206\317\003\371\167\016
\053\262\075\166\033\145\321\152\161\140\161\333\273\270\172\216
\362\371\041\203\370\127\114\250\307\335\145\306\356\357\157\263
\266\231\273\264\303\320\253\137\262\240\176\335\164\041\054\303

\132\353\215\241\312\330\360\310\027\355\166\272\204\143\156\133
\271\265\312\155\327\374\064\071\200\057\272\117\337\215\330\374
\030\304\074\212\065\057\167\202\226\255\040\222\030\262\347\066
\364\256\062\164\270\107\321\330\017\330\054\313\152\302\000\165
\371\054\370\102\016\313\376\163\223\251\217\341\307\256\041\067
\363\312\271\014\264\347\211\176\161\034\126\064\040\303\361\064
\271\125\113\323\123\122\361\007\055\053\076\133\031\100\237\020
\355\323\051\063\305\257\017\020\126\207\332\073\310\261\355\070
\331\031\373\113\360\120\055\244\315\324\130
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "ACNLB"
Issuer: O=ACNLB,C=SI
Serial Number:3e:c3:86:8e
Subject: O=ACNLB,C=SI
Not Valid Before: Thu May 15 11:52:45 2003
Not Valid After: Mon May 15 12:22:45 2023
Fingerprint (MD5): ba:92:64:42:16:1f:cb:a1:16:48:1a:f6:40:5c:59:87
Fingerprint (SHA1): 04:56:f2:3d:1e:9c:43:ae:cb:0d:80:7f:1c:06:47:55:1a:05:f4:56
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ACNLB"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\004\126\362\075\036\234\103\256\313\015\200\177\034\006\107\125
\032\005\364\126
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\272\222\144\102\026\037\313\241\026\110\032\366\100\134\131\207
END
CKA_ISSUER MULTILINE_OCTAL
\060\035\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\016\060\014\006\003\125\004\012\023\005\101\103\116\114\102
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\076\303\206\216
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate

Certificate "state-institutions"
Issuer: OU=sigen-ca,O=state-institutions,C=si
Serial Number:3b:3c:f9:c9
Subject: OU=sigen-ca,O=state-institutions,C=si
Not Valid Before: Fri Jun 29 21:27:46 2001
Not Valid After: Tue Jun 29 21:57:46 2021
Fingerprint (MD5): 49:ef:a6:a1:f0:de:8e:a7:6a:ee:5b:7d:1e:5f:c4:46
Fingerprint (SHA1): 3e:42:a1:87:06:bd:0c:9c:cf:59:47:50:d2:e4:d6:ab:00:48:fd:c4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "state-institutions"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\163\151\061
\033\060\031\006\003\125\004\012\023\022\163\164\141\164\145\055
\151\156\163\164\151\164\165\164\151\157\156\163\061\021\060\017
\006\003\125\004\013\023\010\163\151\147\145\156\055\143\141
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\163\151\061
\033\060\031\006\003\125\004\012\023\022\163\164\141\164\145\055
\151\156\163\164\151\164\165\164\151\157\156\163\061\021\060\017
\006\003\125\004\013\023\010\163\151\147\145\156\055\143\141
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\073\074\371\311
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\031\060\202\003\001\240\003\002\001\002\002\004\073
\074\371\311\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\060\075\061\013\060\011\006\003\125\004\006\023\002\163
\151\061\033\060\031\006\003\125\004\012\023\022\163\164\141\164
\145\055\151\156\163\164\151\164\165\164\151\157\156\163\061\021
\060\017\006\003\125\004\013\023\010\163\151\147\145\156\055\143
\141\060\036\027\015\060\061\060\066\062\071\062\061\062\067\064
\066\132\027\015\062\061\060\066\062\071\062\061\065\067\064\066
\132\060\075\061\013\060\011\006\003\125\004\006\023\002\163\151
\061\033\060\031\006\003\125\004\012\023\022\163\164\141\164\145
\055\151\156\163\164\151\164\165\164\151\157\156\163\061\021\060
\017\006\003\125\004\013\023\010\163\151\147\145\156\055\143\141
\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001\001
\000\260\345\145\262\300\254\144\226\362\210\033\263\355\236\344
\002\306\117\053\210\316\056\212\121\200\165\257\020\133\362\313
\070\146\233\242\016\155\064\107\226\245\222\021\257\366\065\107

\242\167\042\014\316\026\210\142\252\323\111\156\030\274\056\104
\330\276\306\236\302\032\031\254\101\216\374\060\007\002\362\306
\152\324\133\043\000\357\101\064\330\244\163\143\337\042\222\063
\204\001\245\215\363\203\134\372\270\324\172\065\337\354\370\155
\017\340\114\355\255\234\072\175\206\326\245\010\224\276\175\172
\021\037\376\205\077\124\132\210\143\207\234\245\261\247\116\315
\267\104\163\257\317\212\111\153\037\343\315\327\111\115\132\053
\027\346\134\166\263\273\162\271\157\047\322\233\211\025\210\337
\020\137\166\041\001\152\307\025\061\012\321\234\130\370\050\026
\005\155\331\116\331\241\327\007\040\313\113\046\211\115\222\262
\247\272\226\350\343\130\217\042\234\001\226\132\304\367\061\115
\013\111\265\341\170\141\342\124\030\006\273\236\124\064\176\014
\076\353\356\265\200\037\335\026\204\035\150\070\146\147\163\370
\221\002\003\001\000\001\243\202\001\037\060\202\001\033\060\021
\006\011\140\206\110\001\206\370\102\001\001\004\004\003\002\000
\007\060\137\006\003\125\035\037\004\130\060\126\060\124\240\122
\240\120\244\116\060\114\061\013\060\011\006\003\125\004\006\023
\002\163\151\061\033\060\031\006\003\125\004\012\023\022\163\164
\141\164\145\055\151\156\163\164\151\164\165\164\151\157\156\163
\061\021\060\017\006\003\125\004\013\023\010\163\151\147\145\156
\055\143\141\061\015\060\013\006\003\125\004\003\023\004\103\122
\114\061\060\053\006\003\125\035\020\004\044\060\042\200\017\062
\060\060\061\060\066\062\071\062\061\062\067\064\066\132\201\017
\062\060\062\061\060\066\062\071\062\061\065\067\064\066\132\060
\013\006\003\125\035\017\004\004\003\002\001\006\060\037\006\003
\125\035\043\004\030\060\026\200\024\161\173\212\006\037\061\005
\125\253\140\022\167\107\040\036\003\210\030\354\211\060\035\006
\003\125\035\016\004\026\004\024\161\173\212\006\037\061\005\125
\253\140\022\167\107\040\036\003\210\030\354\211\060\014\006\003
\125\035\023\004\005\060\003\001\001\377\060\035\006\011\052\206
\110\206\366\175\007\101\000\004\020\060\016\033\010\126\065\056
\060\072\064\056\060\003\002\004\220\060\015\006\011\052\206\110
\206\367\015\001\001\005\005\000\003\202\001\001\000\000\272\143
\064\363\030\030\356\256\176\215\222\307\065\365\302\023\324\326
\000\252\041\062\026\326\320\133\372\051\260\215\372\027\167\222
\371\245\266\366\371\207\077\006\017\040\356\142\075\064\367\251
\057\307\251\073\320\047\210\114\254\335\311\251\345\132\130\205
\327\022\065\075\334\260\202\133\162\364\273\163\267\373\376\070
\041\230\004\200\262\210\142\017\036\254\072\026\251\346\263\012
\366\025\020\105\003\243\227\342\315\254\020\334\371\000\036\277
\163\154\103\354\167\042\026\006\057\226\203\211\173\260\270\123
\104\101\010\334\200\037\005\333\031\011\166\207\276\065\235\116
\041\113\264\223\301\150\072\235\137\066\376\241\256\060\054\113
\336\170\044\072\130\326\026\103\357\235\231\070\213\052\230\376
\060\321\302\352\326\257\045\325\245\166\013\271\357\100\071\056
\366\353\337\062\136\035\175\207\265\104\314\002\071\322\046\225
\162\330\157\205\103\250\217\016\243\106\316\327\316\350\271\126
\251\370\211\027\022\037\103\111\006\172\062\347\077\276\157\171

\276\326\063\327\114\074\050\374\022\361\166\166\030
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "state-institutions"
Issuer: OU=sigen-ca,O=state-institutions,C=si
Serial Number:3b:3c:f9:c9
Subject: OU=sigen-ca,O=state-institutions,C=si
Not Valid Before: Fri Jun 29 21:27:46 2001
Not Valid After: Tue Jun 29 21:57:46 2021
Fingerprint (MD5): 49:ef:a6:a1:f0:de:8e:a7:6a:ee:5b:7d:1e:5f:c4:46
Fingerprint (SHA1): 3e:42:a1:87:06:bd:0c:9c:cf:59:47:50:d2:e4:d6:ab:00:48:fd:c4
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "state-institutions"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\076\102\241\207\006\275\014\234\317\131\107\120\322\344\326\253
\000\110\375\304
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\111\357\246\241\360\336\216\247\152\356\133\175\036\137\304\106
END
CKA_ISSUER MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\163\151\061
\033\060\031\006\003\125\004\012\023\022\163\164\141\164\145\055
\151\156\163\164\151\164\165\164\151\157\156\163\061\021\060\017
\006\003\125\004\013\023\010\163\151\147\145\156\055\143\141
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\073\074\371\311
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "SECOM Trust Systems CO.,LTD."
Issuer: OU=Security Communication EV RootCA1,O=SECOM Trust Systems CO.\,LTD.,C=JP
Serial Number: 0 (0x0)
Subject: OU=Security Communication EV RootCA1,O=SECOM Trust Systems CO.\,LTD.,C=JP
Not Valid Before: Wed Jun 06 02:12:32 2007
Not Valid After: Sat Jun 06 02:12:32 2037

Fingerprint (MD5): 22:2d:a6:01:ea:7c:0a:f7:f0:6c:56:43:3f:77:76:d3
Fingerprint (SHA1): fe:b8:c4:32:dc:f9:76:9a:ce:ae:3d:d8:90:8f:fd:28:86:65:64:7d
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SECOM Trust Systems CO.,LTD."
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\140\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\052\060\050\006\003\125\004\013\023
\041\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\105\126\040\122\157\157\164\103
\101\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\140\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\052\060\050\006\003\125\004\013\023
\041\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\105\126\040\122\157\157\164\103
\101\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\175\060\202\002\145\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\140\061\013\060\011\006\003\125\004\006\023\002\112\120\061\045
\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040\124
\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117\056
\054\114\124\104\056\061\052\060\050\006\003\125\004\013\023\041
\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156\151
\143\141\164\151\157\156\040\105\126\040\122\157\157\164\103\101
\061\060\036\027\015\060\067\060\066\060\066\060\062\061\062\063
\062\132\027\015\063\067\060\066\060\066\060\062\061\062\063\062
\132\060\140\061\013\060\011\006\003\125\004\006\023\002\112\120
\061\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115
\040\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103
\117\056\054\114\124\104\056\061\052\060\050\006\003\125\004\013
\023\041\123\145\143\165\162\151\164\171\040\103\157\155\155\165
\156\151\143\141\164\151\157\156\040\105\126\040\122\157\157\164
\103\101\061\060\202\001\042\060\015\006\011\052\206\110\206\367

\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002
\202\001\001\000\274\177\354\127\233\044\340\376\234\272\102\171
\251\210\212\372\200\340\365\007\051\103\352\216\012\064\066\215
\034\372\247\265\071\170\377\227\165\367\057\344\252\153\004\204
\104\312\246\342\150\216\375\125\120\142\017\244\161\016\316\007
\070\055\102\205\120\255\074\226\157\213\325\242\016\317\336\111
\211\075\326\144\056\070\345\036\154\265\127\212\236\357\110\016
\315\172\151\026\207\104\265\220\344\006\235\256\241\004\227\130
\171\357\040\112\202\153\214\042\277\354\037\017\351\204\161\355
\361\016\344\270\030\023\314\126\066\135\321\232\036\121\153\071
\156\140\166\210\064\013\363\263\321\260\235\312\141\342\144\035
\301\106\007\270\143\335\036\063\145\263\216\011\125\122\075\265
\275\377\007\353\255\141\125\030\054\251\151\230\112\252\100\305
\063\024\145\164\000\371\221\336\257\003\110\305\100\124\334\017
\204\220\150\040\305\222\226\334\056\345\002\105\252\300\137\124
\370\155\352\111\317\135\154\113\257\357\232\302\126\134\306\065
\126\102\152\060\137\302\253\366\342\075\077\263\311\021\217\061
\114\327\237\111\002\003\001\000\001\243\102\060\100\060\035\006
\003\125\035\016\004\026\004\024\065\112\365\115\257\077\327\202
\070\254\253\161\145\027\165\214\235\125\223\346\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\006\060\017\006\003
\125\035\023\001\001\377\004\005\060\003\001\001\377\060\015\006
\011\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001
\000\250\207\351\354\370\100\147\135\303\301\146\307\100\113\227
\374\207\023\220\132\304\357\240\312\137\213\267\247\267\361\326
\265\144\267\212\263\270\033\314\332\373\254\146\210\101\316\350
\374\344\333\036\210\246\355\047\120\033\002\060\044\106\171\376
\004\207\160\227\100\163\321\300\301\127\031\232\151\245\047\231
\253\235\142\204\366\121\301\054\311\043\025\330\050\267\253\045
\023\265\106\341\206\002\377\046\214\304\210\222\035\126\376\031
\147\362\125\344\200\243\153\234\253\167\341\121\161\015\040\333
\020\232\333\275\166\171\007\167\231\050\255\232\136\332\261\117
\104\054\065\216\245\226\307\375\203\360\130\306\171\326\230\174
\250\215\376\206\076\007\026\222\341\173\347\035\354\063\166\176
\102\056\112\205\371\221\211\150\204\003\201\245\233\232\276\343
\067\305\124\253\126\073\030\055\101\244\014\370\102\333\231\240
\340\162\157\273\135\341\026\117\123\012\144\371\116\364\277\116
\124\275\170\154\210\352\277\234\023\044\302\160\151\242\177\017
\310\074\255\010\311\260\230\100\243\052\347\210\203\355\167\217
\164
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "SECOM Trust Systems CO.,LTD."
Issuer: OU=Security Communication EV RootCA1,O=SECOM Trust Systems CO.\,LTD.,C=JP

```
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication EV RootCA1,O=SECOM Trust Systems CO.\,LTD.,C=JP
# Not Valid Before: Wed Jun 06 02:12:32 2007
# Not Valid After: Sat Jun 06 02:12:32 2037
# Fingerprint (MD5): 22:2d:a6:01:ea:7c:0a:f7:f0:6c:56:43:3f:77:76:d3
# Fingerprint (SHA1): fe:b8:c4:32:dc:f9:76:9a:ce:ae:3d:d8:90:8f:fd:28:86:65:64:7d
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SECOM Trust Systems CO.,LTD."
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\376\270\304\062\334\371\166\232\316\256\075\330\220\217\375\050
\206\145\144\175
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\042\055\246\001\352\174\012\367\360\154\126\103\077\167\166\323
END
CKA_ISSUER MULTILINE_OCTAL
\060\140\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\052\060\050\006\003\125\004\013\023
\041\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\105\126\040\122\157\157\164\103
\101\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "D-TRUST Qualified Root CA 1 2007:PN"
# Issuer: CN=D-TRUST Qualified Root CA 1 2007:PN,O=D-Trust GmbH,C=DE
# Serial Number: 206554 (0x326da)
# Subject: CN=D-TRUST Qualified Root CA 1 2007:PN,O=D-Trust GmbH,C=DE
# Not Valid Before: Fri Jun 08 11:47:46 2007
# Not Valid After: Fri Jun 08 11:47:46 2012
# Fingerprint (MD5): b7:b0:d1:ec:1a:03:3e:ce:a9:15:11:cc:b1:6f:b2:ae
# Fingerprint (SHA1): e3:d7:36:06:99:6c:df:ef:61:fa:04:c3:35:e9:8e:a9:61:04:26:4a
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

CKA_LABEL UTF8 "D-TRUST Qualified Root CA 1 2007:PN"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\054\060\052\006\003\125\004\003\014
\043\104\055\124\122\125\123\124\040\121\165\141\154\151\146\151
\145\144\040\122\157\157\164\040\103\101\040\061\040\062\060\060
\067\072\120\116
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\054\060\052\006\003\125\004\003\014
\043\104\055\124\122\125\123\124\040\121\165\141\154\151\146\151
\145\144\040\122\157\157\164\040\103\101\040\061\040\062\060\060
\067\072\120\116
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\003\046\332
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\347\060\202\003\317\240\003\002\001\002\002\003\003
\046\332\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\000\060\122\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165
\163\164\040\107\155\142\110\061\054\060\052\006\003\125\004\003
\014\043\104\055\124\122\125\123\124\040\121\165\141\154\151\146
\151\145\144\040\122\157\157\164\040\103\101\040\061\040\062\060
\060\067\072\120\116\060\036\027\015\060\067\060\066\060\070\061
\061\064\067\064\066\132\027\015\061\062\060\066\060\070\061\061
\064\067\064\066\132\060\122\061\013\060\011\006\003\125\004\006
\023\002\104\105\061\025\060\023\006\003\125\004\012\014\014\104
\055\124\162\165\163\164\040\107\155\142\110\061\054\060\052\006
\003\125\004\003\014\043\104\055\124\122\125\123\124\040\121\165
\141\154\151\146\151\145\144\040\122\157\157\164\040\103\101\040
\061\040\062\060\060\067\072\120\116\060\202\001\044\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\021
\000\060\202\001\014\002\202\001\001\000\211\331\377\323\377\067
\374\127\210\025\140\301\275\057\150\020\200\267\055\131\245\242
\112\307\012\326\057\216\100\067\173\052\062\252\306\266\023\015
\040\347\117\376\077\016\156\255\371\124\317\153\005\013\376\151
\362\372\274\201\077\336\355\263\063\273\071\054\164\304\064\366
\264\372\303\323\322\130\312\171\160\217\143\343\225\064\370\071
\127\237\001\164\213\227\234\255\352\034\273\145\375\112\346\044
\070\111\076\236\262\306\120\343\134\326\073\351\207\071\167\331
\244\036\007\050\240\135\222\207\053\114\213\165\305\100\003\275

\077\100\015\224\074\073\024\247\340\256\162\275\053\353\322\361
\260\336\010\342\321\244\021\326\070\302\116\362\022\167\037\317
\110\106\013\370\027\063\233\203\037\010\270\005\347\106\123\113
\210\173\207\374\322\243\075\105\162\351\016\031\264\005\212\152
\037\067\014\017\014\314\310\250\271\133\002\272\363\270\243\015
\017\303\024\353\153\173\067\201\352\236\130\321\260\267\107\113
\005\061\004\351\114\012\241\300\222\024\275\043\067\322\041\366
\344\300\354\116\231\177\215\215\350\121\002\005\000\351\314\105
\051\243\202\001\302\060\202\001\276\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035
\016\004\026\004\024\054\114\366\232\052\237\050\202\001\301\231
\006\021\257\263\113\174\267\232\376\060\070\006\010\053\006\001
\005\005\007\001\001\004\054\060\052\060\050\006\010\053\006\001
\005\005\007\060\001\206\034\150\164\164\160\072\057\057\161\165
\141\154\056\157\143\163\160\056\144\055\164\162\165\163\164\056
\156\145\164\060\027\006\003\125\035\040\004\020\060\016\060\014
\006\012\053\006\001\004\001\245\064\002\037\001\060\063\006\003
\125\035\021\004\054\060\052\201\020\151\156\146\157\100\144\055
\164\162\165\163\164\056\156\145\164\206\026\150\164\164\160\072
\057\057\167\167\167\056\144\055\164\162\165\163\164\056\156\145
\164\060\030\006\010\053\006\001\005\005\007\001\003\004\014\060
\012\060\010\006\006\004\000\216\106\001\001\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\006\060\201\331\006\003
\125\035\037\004\201\321\060\201\316\060\201\313\240\201\310\240
\201\305\206\177\154\144\141\160\072\057\057\144\151\162\145\143
\164\157\162\171\056\144\055\164\162\165\163\164\056\156\145\164
\057\103\116\075\104\055\124\122\125\123\124\045\062\060\121\165
\141\154\151\146\151\145\144\045\062\060\122\157\157\164\045\062
\060\103\101\045\062\060\061\045\062\060\062\060\060\067\045\063
\101\120\116\054\117\075\104\055\124\162\165\163\164\045\062\060
\107\155\142\110\054\103\075\104\105\077\143\145\162\164\151\146
\151\143\141\164\145\162\145\166\157\143\141\164\151\157\156\154
\151\163\164\206\102\150\164\164\160\072\057\057\167\167\167\056
\144\055\164\162\165\163\164\056\156\145\164\057\143\162\154\057
\144\055\164\162\165\163\164\137\161\165\141\154\151\146\151\145
\144\137\162\157\157\164\137\143\141\137\061\137\062\060\060\067
\137\160\156\056\143\162\154\060\015\006\011\052\206\110\206\367
\015\001\001\005\005\000\003\202\001\001\000\151\251\361\204\310
\266\006\235\032\027\007\145\363\252\107\234\367\162\252\075\257
\046\146\345\024\041\016\316\033\211\076\212\124\310\377\066\311
\035\054\212\021\345\315\307\162\244\204\133\036\133\303\065\065
\261\261\155\113\252\010\324\331\324\342\375\007\113\344\126\133
\366\312\160\310\165\272\234\176\104\016\005\212\375\326\033\164
\323\273\322\345\132\344\332\366\017\262\037\215\124\314\025\145
\376\166\032\054\020\271\306\324\044\046\073\014\255\150\111\157
\143\254\254\130\136\326\027\271\006\150\014\264\060\314\341\267
\346\077\300\356\322\017\115\240\330\242\137\174\200\310\340\027
\212\124\367\105\010\162\167\112\113\263\051\240\223\240\341\312

\103\301\163\055\273\332\264\222\361\134\346\020\046\325\210\361
\206\347\076\033\142\047\046\314\273\316\314\060\336\317\330\272
\377\214\202\067\036\154\105\204\331\043\265\206\226\227\016\307
\252\042\215\117\242\373\051\003\260\032\334\020\124\143\275\234
\326\236\234\344\037\062\227\220\320\327\232\273\171\243\043\217
\264\165\256\144\310\167\227\372\054\043\215
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "D-TRUST Qualified Root CA 1 2007:PN"
Issuer: CN=D-TRUST Qualified Root CA 1 2007:PN,O=D-Trust GmbH,C=DE
Serial Number: 206554 (0x326da)
Subject: CN=D-TRUST Qualified Root CA 1 2007:PN,O=D-Trust GmbH,C=DE
Not Valid Before: Fri Jun 08 11:47:46 2007
Not Valid After: Fri Jun 08 11:47:46 2012
Fingerprint (MD5): b7:b0:d1:ec:1a:03:3e:ce:a9:15:11:cc:b1:6f:b2:ae
Fingerprint (SHA1): e3:d7:36:06:99:6c:df:ef:61:fa:04:c3:35:e9:8e:a9:61:04:26:4a
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Qualified Root CA 1 2007:PN"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\343\327\066\006\231\154\337\357\141\372\004\303\065\351\216\251
\141\004\046\112
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\267\260\321\354\032\003\076\316\251\025\021\314\261\157\262\256
END
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\054\060\052\006\003\125\004\003\014
\043\104\055\124\122\125\123\124\040\121\165\141\154\151\146\151
\145\144\040\122\157\157\164\040\103\101\040\061\040\062\060\060
\067\072\120\116
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\003\046\332
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "D-TRUST Root Class 2 CA 2007"
Issuer: CN=D-TRUST Root Class 2 CA 2007,O=D-Trust GmbH,C=DE
Serial Number: 200341 (0x30e95)
Subject: CN=D-TRUST Root Class 2 CA 2007,O=D-Trust GmbH,C=DE
Not Valid Before: Wed May 16 05:20:47 2007
Not Valid After: Mon May 16 05:20:47 2022
Fingerprint (MD5): 2c:c2:b0:d5:d6:22:c5:2e:90:1e:f4:63:3f:0f:bb:32
Fingerprint (SHA1): 4a:05:8f:df:d7:61:db:21:b0:c2:ee:48:57:9b:e2:7f:42:a4:da:1c
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 2 CA 2007"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\113\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\045\060\043\006\003\125\004\003\014
\034\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\062\040\103\101\040\062\060\060\067
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\113\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\045\060\043\006\003\125\004\003\014
\034\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\062\040\103\101\040\062\060\060\067
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\003\016\225
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\225\060\202\003\175\240\003\002\001\002\002\003\003
\016\225\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\000\060\113\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165
\163\164\040\107\155\142\110\061\045\060\043\006\003\125\004\003
\014\034\104\055\124\122\125\123\124\040\122\157\157\164\040\103
\154\141\163\163\040\062\040\103\101\040\062\060\060\067\060\036
\027\015\060\067\060\065\061\066\060\065\062\060\064\067\132\027
\015\062\062\060\065\061\066\060\065\062\060\064\067\132\060\113
\061\013\060\011\006\003\125\004\006\023\002\104\105\061\025\060
\023\006\003\125\004\012\014\014\104\055\124\162\165\163\164\040
\107\155\142\110\061\045\060\043\006\003\125\004\003\014\034\104
\055\124\122\125\123\124\040\122\157\157\164\040\103\154\141\163
\163\040\062\040\103\101\040\062\060\060\067\060\202\001\042\060

\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202
\001\017\000\060\202\001\012\002\202\001\001\000\263\315\344\204
\025\111\370\344\326\316\204\263\232\255\366\060\165\220\015\204
\353\356\332\263\172\165\052\342\073\244\352\060\054\353\075\167
\215\201\204\150\112\246\244\150\334\220\163\141\064\145\007\035
\043\245\014\346\277\323\335\063\135\332\062\355\246\015\123\246
\164\152\134\031\131\246\114\265\057\171\001\136\236\177\112\372
\272\311\047\176\324\377\315\000\131\040\353\006\314\263\104\317
\326\205\351\355\073\014\154\301\352\214\134\340\271\251\002\360
\023\000\047\223\234\120\376\315\023\117\155\033\152\252\335\017
\377\106\045\031\334\341\136\120\254\032\177\016\313\332\356\040
\374\303\364\234\112\170\065\156\356\061\307\105\026\162\205\322
\202\040\333\122\105\174\074\277\131\127\371\207\164\126\230\133
\035\120\216\314\057\263\263\077\213\356\354\067\111\001\210\357
\330\041\014\223\323\366\156\211\117\272\027\313\104\201\267\173
\247\043\273\164\012\323\330\352\067\105\047\377\334\360\236\103
\343\272\173\212\033\232\175\351\206\240\376\057\321\326\366\207
\127\252\362\051\224\207\163\025\372\152\116\255\002\003\001\000
\001\243\202\001\200\060\202\001\174\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035
\016\004\026\004\024\221\060\253\366\363\306\104\267\353\335\050
\274\017\024\237\122\135\142\177\002\060\071\006\010\053\006\001
\005\005\007\001\001\004\055\060\053\060\051\006\010\053\006\001
\005\005\007\060\001\206\035\150\164\164\160\072\057\057\165\163
\145\162\163\056\157\143\163\160\056\144\055\164\162\165\163\164
\056\156\145\164\060\063\006\003\125\035\021\004\054\060\052\201
\020\151\156\146\157\100\144\055\164\162\165\163\164\056\156\145
\164\206\026\150\164\164\160\072\057\057\167\167\167\056\144\055
\164\162\165\163\164\056\156\145\164\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\001\006\060\201\311\006\003\125\035
\037\004\201\301\060\201\276\060\201\273\240\201\270\240\201\265
\206\166\154\144\141\160\072\057\057\144\151\162\145\143\164\157
\162\171\056\144\055\164\162\165\163\164\056\156\145\164\057\103
\116\075\104\055\124\122\125\123\124\045\062\060\122\157\157\164
\045\062\060\103\154\141\163\163\045\062\060\062\045\062\060\103
\101\045\062\060\062\060\060\067\054\117\075\104\055\124\162\165
\163\164\045\062\060\107\155\142\110\054\103\075\104\105\077\143
\145\162\164\151\146\151\143\141\164\145\162\145\166\157\143\141
\164\151\157\156\154\151\163\164\206\073\150\164\164\160\072\057
\057\167\167\167\056\144\055\164\162\165\163\164\056\156\145\164
\057\143\162\154\057\144\055\164\162\165\163\164\137\162\157\157
\164\137\143\154\141\163\163\137\062\137\143\141\137\062\060\060
\067\056\143\162\154\060\015\006\011\052\206\110\206\367\015\001
\001\005\005\000\003\202\001\001\000\133\213\362\103\343\005\056
\144\037\325\222\251\121\153\144\374\016\106\314\007\231\342\267
\374\223\051\040\334\374\057\140\344\254\175\045\062\355\020\341
\017\157\333\362\274\116\356\101\311\263\324\007\110\172\012\257
\244\266\377\121\060\355\313\322\234\353\177\120\356\113\342\142

\247\064\302\040\366\363\366\365\066\300\313\221\020\353\355\056
\215\364\007\032\041\014\065\167\364\174\055\215\111\245\327\013
\104\150\325\322\342\345\014\170\070\023\312\261\114\122\252\052
\345\325\257\134\005\071\235\055\255\276\043\126\325\057\125\363
\336\235\253\202\066\240\115\267\131\221\107\356\336\203\245\352
\073\136\047\005\200\013\155\054\120\364\001\067\325\243\167\027
\354\376\335\204\364\305\370\120\222\320\113\306\056\243\213\100
\344\303\067\243\167\275\316\054\125\342\254\337\135\144\000\272
\276\247\152\061\006\374\231\153\120\025\045\235\251\166\232\247
\115\052\232\002\143\353\160\347\376\021\046\320\030\305\246\037
\012\103\223\362\030\331\365\071\171\270\007\135\214\037\346\077
\363\305\313\041\146\061\173\173\317
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "D-TRUST Root Class 2 CA 2007"
Issuer: CN=D-TRUST Root Class 2 CA 2007,O=D-Trust GmbH,C=DE
Serial Number: 200341 (0x30e95)
Subject: CN=D-TRUST Root Class 2 CA 2007,O=D-Trust GmbH,C=DE
Not Valid Before: Wed May 16 05:20:47 2007
Not Valid After: Mon May 16 05:20:47 2022
Fingerprint (MD5): 2c:c2:b0:d5:d6:22:c5:2e:90:1e:f4:63:3f:0f:bb:32
Fingerprint (SHA1): 4a:05:8f:df:d7:61:db:21:b0:c2:ee:48:57:9b:e2:7f:42:a4:da:1c
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 2 CA 2007"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\112\005\217\337\327\141\333\041\260\302\356\110\127\233\342\177
\102\244\332\034
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\054\302\260\325\326\042\305\056\220\036\364\143\077\017\273\062
END
CKA_ISSUER MULTILINE_OCTAL
\060\113\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\045\060\043\006\003\125\004\003\014
\034\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\062\040\103\101\040\062\060\060\067
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\003\016\225
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "D-TRUST Root Class 3 CA 2007"
Issuer: CN=D-TRUST Root Class 3 CA 2007,O=D-Trust GmbH,C=DE
Serial Number: 200342 (0x30e96)
Subject: CN=D-TRUST Root Class 3 CA 2007,O=D-Trust GmbH,C=DE
Not Valid Before: Wed May 16 05:20:47 2007
Not Valid After: Mon May 16 05:20:47 2022
Fingerprint (MD5): 1e:24:0e:a0:f8:76:d7:85:a3:f5:f8:a1:49:3d:2e:ba
Fingerprint (SHA1): fd:1e:d1:e2:02:1b:0b:9f:73:e8:eb:75:ce:23:43:6b:bc:c7:46:eb
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2007"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\113\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\045\060\043\006\003\125\004\003\014
\034\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\060\060\067
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\113\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\045\060\043\006\003\125\004\003\014
\034\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\060\060\067
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\003\016\226
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\225\060\202\003\175\240\003\002\001\002\002\003\003
\016\226\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\000\060\113\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165
\163\164\040\107\155\142\110\061\045\060\043\006\003\125\004\003
\014\034\104\055\124\122\125\123\124\040\122\157\157\164\040\103
\154\141\163\163\040\063\040\103\101\040\062\060\060\067\060\036
\027\015\060\067\060\065\061\066\060\065\062\060\064\067\132\027
\015\062\062\060\065\061\066\060\065\062\060\064\067\132\060\113

\061\013\060\011\006\003\125\004\006\023\002\104\105\061\025\060
\023\006\003\125\004\012\014\014\104\055\124\162\165\163\164\040
\107\155\142\110\061\045\060\043\006\003\125\004\003\014\034\104
\055\124\122\125\123\124\040\122\157\157\164\040\103\154\141\163
\163\040\063\040\103\101\040\062\060\060\067\060\202\001\042\060
\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202
\001\017\000\060\202\001\012\002\202\001\001\000\272\215\315\065
\123\062\356\246\275\110\220\232\362\352\350\130\017\107\146\250
\314\156\011\022\344\241\313\133\337\223\270\366\351\071\071\370
\306\330\351\317\032\206\274\246\256\017\214\257\010\105\343\362
\216\053\302\134\131\053\372\214\066\263\160\035\310\120\074\245
\126\276\352\256\351\107\366\347\111\017\257\177\224\046\324\002
\032\007\270\272\071\125\316\237\273\042\071\051\330\065\305\231
\003\041\330\247\070\143\361\344\064\337\107\256\237\067\361\154
\240\231\302\042\260\155\162\334\042\311\061\071\350\126\327\240
\217\072\041\133\206\232\117\050\371\034\166\367\314\117\077\371
\116\167\213\052\234\212\252\171\101\212\325\034\331\071\157\230
\311\136\105\227\035\011\224\031\331\120\121\205\162\163\277\254
\113\235\164\064\161\207\041\026\017\176\356\322\111\176\312\111
\323\371\222\052\107\110\117\017\135\132\241\313\325\050\354\360
\222\305\162\103\106\353\263\003\246\363\127\045\112\012\141\204
\012\046\326\357\246\270\330\024\215\170\271\323\267\045\321\116
\343\132\026\252\354\237\007\356\043\020\175\265\002\003\001\000
\001\243\202\001\200\060\202\001\174\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035
\016\004\026\004\024\202\057\066\043\111\170\040\102\327\260\122
\130\240\326\164\124\025\170\277\252\060\071\006\010\053\006\001
\005\005\007\001\001\004\055\060\053\060\051\006\010\053\006\001
\005\005\007\060\001\206\035\150\164\164\160\072\057\057\165\163
\145\162\163\056\157\143\163\160\056\144\055\164\162\165\163\164
\056\156\145\164\060\063\006\003\125\035\021\004\054\060\052\201
\020\151\156\146\157\100\144\055\164\162\165\163\164\056\156\145
\164\206\026\150\164\164\160\072\057\057\167\167\167\056\144\055
\164\162\165\163\164\056\156\145\164\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\001\006\060\201\311\006\003\125\035
\037\004\201\301\060\201\276\060\201\273\240\201\270\240\201\265
\206\166\154\144\141\160\072\057\057\144\151\162\145\143\164\157
\162\171\056\144\055\164\162\165\163\164\056\156\145\164\057\103
\116\075\104\055\124\122\125\123\124\045\062\060\122\157\157\164
\045\062\060\103\154\141\163\163\045\062\060\063\045\062\060\103
\101\045\062\060\062\060\060\067\054\117\075\104\055\124\162\165
\163\164\045\062\060\107\155\142\110\054\103\075\104\105\077\143
\145\162\164\151\146\151\143\141\164\145\162\145\166\157\143\141
\164\151\157\156\154\151\163\164\206\073\150\164\164\160\072\057
\057\167\167\167\056\144\055\164\162\165\163\164\056\156\145\164
\057\143\162\154\057\144\055\164\162\165\163\164\137\162\157\157
\164\137\143\154\141\163\163\137\063\137\143\141\137\062\060\060
\067\056\143\162\154\060\015\006\011\052\206\110\206\367\015\001

\001\005\005\000\003\202\001\001\000\125\016\150\012\215\334\331
\250\206\140\002\151\171\215\175\351\220\302\331\035\035\265\016
\273\163\222\144\143\024\106\114\320\152\273\243\165\135\206\031
\070\141\206\035\270\212\042\064\243\264\065\025\263\251\140\114
\124\027\237\261\336\133\062\342\176\153\336\117\042\360\055\035
\042\004\236\266\112\117\253\054\126\235\343\335\354\261\046\116
\052\327\125\302\076\275\202\327\276\125\273\105\310\051\133\206
\074\235\077\150\104\104\104\066\015\150\277\256\001\242\031\265
\114\227\377\362\226\074\147\262\102\336\017\341\240\227\116\312
\347\064\145\256\225\202\141\147\046\163\055\335\173\347\225\113
\016\041\252\222\256\114\374\306\263\251\345\231\203\062\071\360
\140\302\114\121\250\301\107\024\065\211\245\115\066\017\237\033
\002\161\101\215\102\112\044\370\257\156\235\015\160\206\215\252
\142\023\036\003\213\044\371\303\124\223\111\205\033\165\166\142
\177\042\377\111\275\166\163\014\077\230\255\052\262\372\347\305
\337\164\365\377\151\061\125\012\072\300\031\142\065\304\111\271
\053\031\035\364\160\231\356\330\334
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "D-TRUST Root Class 3 CA 2007"
Issuer: CN=D-TRUST Root Class 3 CA 2007,O=D-Trust GmbH,C=DE
Serial Number: 200342 (0x30e96)
Subject: CN=D-TRUST Root Class 3 CA 2007,O=D-Trust GmbH,C=DE
Not Valid Before: Wed May 16 05:20:47 2007
Not Valid After: Mon May 16 05:20:47 2022
Fingerprint (MD5): 1e:24:0e:a0:f8:76:d7:85:a3:f5:f8:a1:49:3d:2e:ba
Fingerprint (SHA1): fd:1e:d1:e2:02:1b:0b:9f:73:e8:eb:75:ce:23:43:6b:bc:c7:46:eb
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2007"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\375\036\321\342\002\033\013\237\163\350\353\165\316\043\103\153
\274\307\106\353
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\036\044\016\240\370\166\327\205\243\365\370\241\111\075\056\272
END
CKA_ISSUER MULTILINE_OCTAL
\060\113\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\045\060\043\006\003\125\004\003\014
\034\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154

\141\163\163\040\063\040\103\101\040\062\060\060\067
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\003\016\226
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "SSC Root CA A"
Issuer: CN=SSC Root CA A,OU=Certification Authority,O=Skaitmeninio sertifikavimo centras,C=LT
Serial Number:66:07:a3:d2:9d:29:56:18:0e:e1:5e:59:98:b1:84:55
Subject: CN=SSC Root CA A,OU=Certification Authority,O=Skaitmeninio sertifikavimo centras,C=LT
Not Valid Before: Wed Dec 27 12:18:52 2006
Not Valid After: Mon Dec 28 12:05:04 2026
Fingerprint (MD5): 46:8c:21:0e:ab:92:21:46:59:db:a6:db:00:61:de:26
Fingerprint (SHA1): 5a:5a:4d:af:78:61:26:7c:4b:1f:1e:67:58:6b:ae:6e:d4:fe:b9:3f
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSC Root CA A"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\164\061\013\060\011\006\003\125\004\006\023\002\114\124\061
\053\060\051\006\003\125\004\012\023\042\123\153\141\151\164\155
\145\156\151\156\151\157\040\163\145\162\164\151\146\151\153\141
\166\151\155\157\040\143\145\156\164\162\141\163\061\040\060\036
\006\003\125\004\013\023\027\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\061\026
\060\024\006\003\125\004\003\023\015\123\123\103\040\122\157\157
\164\040\103\101\040\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\164\061\013\060\011\006\003\125\004\006\023\002\114\124\061
\053\060\051\006\003\125\004\012\023\042\123\153\141\151\164\155
\145\156\151\156\151\157\040\163\145\162\164\151\146\151\153\141
\166\151\155\157\040\143\145\156\164\162\141\163\061\040\060\036
\006\003\125\004\013\023\027\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\061\026
\060\024\006\003\125\004\003\023\015\123\123\103\040\122\157\157
\164\040\103\101\040\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\146\007\243\322\235\051\126\030\016\341\136\131\230\261

\204\125
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\052\060\202\004\022\240\003\002\001\002\002\020\146
\007\243\322\235\051\126\030\016\341\136\131\230\261\204\125\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\164
\061\013\060\011\006\003\125\004\006\023\002\114\124\061\053\060
\051\006\003\125\004\012\023\042\123\153\141\151\164\155\145\156
\151\156\151\157\040\163\145\162\164\151\146\151\153\141\166\151
\155\157\040\143\145\156\164\162\141\163\061\040\060\036\006\003
\125\004\013\023\027\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\061\026\060\024
\006\003\125\004\003\023\015\123\123\103\040\122\157\157\164\040
\103\101\040\101\060\036\027\015\060\066\061\062\062\067\061\062
\061\070\065\062\132\027\015\062\066\061\062\062\070\061\062\060
\065\060\064\132\060\164\061\013\060\011\006\003\125\004\006\023
\002\114\124\061\053\060\051\006\003\125\004\012\023\042\123\153
\141\151\164\155\145\156\151\156\151\157\040\163\145\162\164\151
\146\151\153\141\166\151\155\157\040\143\145\156\164\162\141\163
\061\040\060\036\006\003\125\004\013\023\027\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\061\026\060\024\006\003\125\004\003\023\015\123\123\103
\040\122\157\157\164\040\103\101\040\101\060\202\002\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002
\017\000\060\202\002\012\002\202\002\001\000\272\352\117\276\204
\300\031\044\212\041\251\114\231\175\367\014\325\245\121\222\250
\145\343\211\243\013\146\347\102\370\171\322\017\203\043\173\267
\246\301\044\326\065\326\330\345\001\312\160\261\026\326\107\156
\276\020\154\176\351\120\156\166\367\345\344\203\017\170\325\240
\163\365\215\321\231\037\224\104\043\226\306\356\162\132\371\332
\135\074\221\257\154\350\227\350\206\135\367\236\213\372\304\254
\146\117\344\162\077\073\335\236\116\065\322\023\037\175\273\104
\113\364\123\254\326\024\327\100\071\272\300\077\374\205\040\323
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\064\333\273\176\377\014\157\067\372\371\303\314\311\057\321\351
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\001\321\343\314\307\323\036\025\005\066\333\224\232\354\122\303
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\004\005\060\003\001\001\377\060\075\006\003\125\035\040\004\066
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\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003\125
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\151\056\012\070\233\167\121\123\003\360\060\015\006\011\052\206
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\226\263\036\230\224\111\174\154\074\334\236\035\266\253\303\254
\011\305\235\336\067\327\124\304\234\255\077\260\326\151\001\345
\020\206\175\271\201\203\156\234\146\116\225\005\222\220\061\207
\046\262\332\221\164\275\204\344\161\150\344\166\000\340\166\163
\064\107\206\225\145\272\133\220\242\155\005\051\170\140\353\206
\371\022\115\350\010\126\244\314\214\242\126\112\316\200\364\024
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\216\244\104\175\302\313\313\247\017\350\022\272\362\156\272\217
\063\060\033\335\051\370\360\102\243\156\102\245\156\372\126\245
\251\120\203\321\005\146\026\213\055\373\346\222\321\346\154\013
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END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "SSC Root CA A"
Issuer: CN=SSC Root CA A,OU=Certification Authority,O=Skaitmeninio sertifikavimo centras,C=LT
Serial Number:66:07:a3:d2:9d:29:56:18:0e:e1:5e:59:98:b1:84:55
Subject: CN=SSC Root CA A,OU=Certification Authority,O=Skaitmeninio sertifikavimo centras,C=LT
Not Valid Before: Wed Dec 27 12:18:52 2006
Not Valid After: Mon Dec 28 12:05:04 2026
Fingerprint (MD5): 46:8c:21:0e:ab:92:21:46:59:db:a6:db:00:61:de:26
Fingerprint (SHA1): 5a:5a:4d:af:78:61:26:7c:4b:1f:1e:67:58:6b:ae:6e:d4:fe:b9:3f
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSC Root CA A"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\132\132\115\257\170\141\046\174\113\037\036\147\130\153\256\156
\324\376\271\077
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\106\214\041\016\253\222\041\106\131\333\246\333\000\141\336\046
END
CKA_ISSUER MULTILINE_OCTAL
\060\164\061\013\060\011\006\003\125\004\006\023\002\114\124\061
\053\060\051\006\003\125\004\012\023\042\123\153\141\151\164\155
\145\156\151\156\151\157\040\163\145\162\164\151\146\151\153\141
\166\151\155\157\040\143\145\156\164\162\141\163\061\040\060\036
\006\003\125\004\013\023\027\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\061\026
\060\024\006\003\125\004\003\023\015\123\123\103\040\122\157\157
\164\040\103\101\040\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\146\007\243\322\235\051\126\030\016\341\136\131\230\261
\204\125
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "SSC Root CA B"
Issuer: CN=SSC Root CA B,OU=Certification Authority,O=Skaitmeninio sertifikavimo centras,C=LT
Serial Number:be:92:83:18:f3:55:8a:78:a3:67:59:1c:69:24:09:3f
Subject: CN=SSC Root CA B,OU=Certification Authority,O=Skaitmeninio sertifikavimo centras,C=LT
Not Valid Before: Wed Dec 27 12:22:50 2006
Not Valid After: Fri Dec 25 12:08:26 2026
Fingerprint (MD5): da:26:b6:e6:c7:c2:f7:b7:9e:46:59:b3:57:77:18:65
Fingerprint (SHA1): 3e:84:d3:bc:c5:44:c0:f6:fa:19:43:5c:85:1f:3f:2f:cb:a8:e8:14
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSC Root CA B"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\164\061\013\060\011\006\003\125\004\006\023\002\114\124\061
\053\060\051\006\003\125\004\012\023\042\123\153\141\151\164\155
\145\156\151\156\151\157\040\163\145\162\164\151\146\151\153\141
\166\151\155\157\040\143\145\156\164\162\141\163\061\040\060\036
\006\003\125\004\013\023\027\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\061\026
\060\024\006\003\125\004\003\023\015\123\123\103\040\122\157\157
\164\040\103\101\040\102
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CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
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\053\060\051\006\003\125\004\012\023\042\123\153\141\151\164\155
\145\156\151\156\151\157\040\163\145\162\164\151\146\151\153\141
\166\151\155\157\040\143\145\156\164\162\141\163\061\040\060\036
\006\003\125\004\013\023\027\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\061\026
\060\024\006\003\125\004\003\023\015\123\123\103\040\122\157\157
\164\040\103\101\040\102
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
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\044\011\077
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\053\060\202\004\023\240\003\002\001\002\002\021\000
\276\222\203\030\363\125\212\170\243\147\131\034\151\044\011\077
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\164\061\013\060\011\006\003\125\004\006\023\002\114\124\061\053

\060\051\006\003\125\004\012\023\042\123\153\141\151\164\155\145
\156\151\156\151\157\040\163\145\162\164\151\146\151\153\141\166
\151\155\157\040\143\145\156\164\162\141\163\061\040\060\036\006
\003\125\004\013\023\027\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\026\060
\024\006\003\125\004\003\023\015\123\123\103\040\122\157\157\164
\040\103\101\040\102\060\036\027\015\060\066\061\062\062\067\061
\062\062\062\065\060\132\027\015\062\066\061\062\062\065\061\062
\060\070\062\066\132\060\164\061\013\060\011\006\003\125\004\006
\023\002\114\124\061\053\060\051\006\003\125\004\012\023\042\123
\153\141\151\164\155\145\156\151\156\151\157\040\163\145\162\164
\151\146\151\153\141\166\151\155\157\040\143\145\156\164\162\141
\163\061\040\060\036\006\003\125\004\013\023\027\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\061\026\060\024\006\003\125\004\003\023\015\123\123
\103\040\122\157\157\164\040\103\101\040\102\060\202\002\042\060
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\366\163\377\076\322\311\115\131\077\344\267\307\237\006\135\330
\074\243\210\204\340\163\135\375\005\352\307\216\327\244\004\152
\353\237\275\103\375\024\222\106\270\305\272\252\355\140\354\354
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\144\313\347\035\324\105\147\016\011\153\345\170\354\361\077\004
\124\363\232\231\307\131\321\322\171\247\244\032\260\174\111\374
\034\207\124\136\170\006\325\335\035\314\205\240\102\170\325\320
\260\212\352\350\361\241\236\126\357\323\301\175\207\254\347\332
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\177\344\276\300\111\150\221\270\107\010\223\201\301\265\033\061
\006\323\200\173\321\105\241\317\014\075\141\363\222\370\361\260
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\204\215\163\152\332\160\200\304\364\302\317\220\216\060\232\341
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\023\214\273\325\265\045\011\206\257\366\057\105\224\052\060\301
\024\224\065\366\135\312\045\225\234\261\130\211\270\265\140\205
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\242\112\024\157\303\072\330\347\146\121\012\351\034\376\314\151
\346\064\154\364\201\333\175\242\021\370\114\304\207\005\026\075
\353\227\164\077\156\354\234\271\266\047\214\044\337\055\263\257
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\242\226\013\153\122\173\360\053\113\073\322\213\240\153\223\075
\311\127\143\212\153\314\120\023\217\167\250\121\276\032\114\055
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\304\347\327\135\010\053\121\374\075\106\022\347\321\245\166\305
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\232\047\221\102\160\165\172\010\176\276\057\034\177\067\075\250
\213\334\106\162\365\350\157\066\150\372\156\215\040\235\324\365
\007\161\277\275\047\102\271\163\050\326\354\111\264\005\205\117
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\275\001\354\343\315\153\012\065\302\311\070\343\016\363\130\033
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\054\035\361\137\246\265\366\027\071\101\351\370\145\302\036\130
\021\312\174\216\342\265\272\222\017\147\267\217\353\231\324\061
\373\162\173\132\230\137\222\224\307\004\352\060\366\273\032
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "SSC Root CA B"
Issuer: CN=SSC Root CA B,OU=Certification Authority,O=Skaitmeninio sertifikavimo centras,C=LT
Serial Number:be:92:83:18:f3:55:8a:78:a3:67:59:1c:69:24:09:3f
Subject: CN=SSC Root CA B,OU=Certification Authority,O=Skaitmeninio sertifikavimo centras,C=LT
Not Valid Before: Wed Dec 27 12:22:50 2006
Not Valid After: Fri Dec 25 12:08:26 2026
Fingerprint (MD5): da:26:b6:e6:c7:c2:f7:b7:9e:46:59:b3:57:77:18:65
Fingerprint (SHA1): 3e:84:d3:bc:c5:44:c0:f6:fa:19:43:5c:85:1f:3f:2f:cb:a8:e8:14
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSC Root CA B"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\076\204\323\274\305\104\300\366\372\031\103\134\205\037\077\057
\313\250\350\024
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\332\046\266\346\307\302\367\267\236\106\131\263\127\167\030\145
END
CKA_ISSUER MULTILINE_OCTAL
\060\164\061\013\060\011\006\003\125\004\006\023\002\114\124\061
\053\060\051\006\003\125\004\012\023\042\123\153\141\151\164\155
\145\156\151\156\151\157\040\163\145\162\164\151\146\151\153\141
\166\151\155\157\040\143\145\156\164\162\141\163\061\040\060\036
\006\003\125\004\013\023\027\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\061\026
\060\024\006\003\125\004\003\023\015\123\123\103\040\122\157\157
\164\040\103\101\040\102
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\276\222\203\030\363\125\212\170\243\147\131\034\151
\044\011\077
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "SSC Root CA C"
Issuer: CN=SSC Root CA C,OU=Certification Authority,O=Skaitmeninio sertifikavimo centras,C=LT
Serial Number:34:b9:12:9f:ac:c7:92:55:42:5c:de:57:ff:e3:c0:05

Subject: CN=SSC Root CA C,OU=Certification Authority,O=Skaitmeninio sertifikavimo centras,C=LT
Not Valid Before: Wed Dec 27 12:26:30 2006
Not Valid After: Tue Dec 22 12:11:30 2026
Fingerprint (MD5): 3c:4c:25:cc:0a:19:ca:ee:6a:eb:55:16:00:86:72:5f
Fingerprint (SHA1): 23:e8:33:23:3e:7d:0c:c9:2b:7c:42:79:ac:19:c2:f4:74:d6:04:ca
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSC Root CA C"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\164\061\013\060\011\006\003\125\004\006\023\002\114\124\061
\053\060\051\006\003\125\004\012\023\042\123\153\141\151\164\155
\145\156\151\156\151\157\040\163\145\162\164\151\146\151\153\141
\166\151\155\157\040\143\145\156\164\162\141\163\061\040\060\036
\006\003\125\004\013\023\027\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\061\026
\060\024\006\003\125\004\003\023\015\123\123\103\040\122\157\157
\164\040\103\101\040\103
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\164\061\013\060\011\006\003\125\004\006\023\002\114\124\061
\053\060\051\006\003\125\004\012\023\042\123\153\141\151\164\155
\145\156\151\156\151\157\040\163\145\162\164\151\146\151\153\141
\166\151\155\157\040\143\145\156\164\162\141\163\061\040\060\036
\006\003\125\004\013\023\027\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\061\026
\060\024\006\003\125\004\003\023\015\123\123\103\040\122\157\157
\164\040\103\101\040\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\064\271\022\237\254\307\222\125\102\134\336\127\377\343
\300\005
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\052\060\202\004\022\240\003\002\001\002\002\020\064
\271\022\237\254\307\222\125\102\134\336\127\377\343\300\005\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\164
\061\013\060\011\006\003\125\004\006\023\002\114\124\061\053\060
\051\006\003\125\004\012\023\042\123\153\141\151\164\155\145\156
\151\156\151\157\040\163\145\162\164\151\146\151\153\141\166\151
\155\157\040\143\145\156\164\162\141\163\061\040\060\036\006\003
\125\004\013\023\027\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\061\026\060\024
\006\003\125\004\003\023\015\123\123\103\040\122\157\157\164\040
\103\101\040\103\060\036\027\015\060\066\061\062\062\067\061\062

\062\066\063\060\132\027\015\062\066\061\062\062\062\061\062\061
\061\063\060\132\060\164\061\013\060\011\006\003\125\004\006\023
\002\114\124\061\053\060\051\006\003\125\004\012\023\042\123\153
\141\151\164\155\145\156\151\156\151\157\040\163\145\162\164\151
\146\151\153\141\166\151\155\157\040\143\145\156\164\162\141\163
\061\040\060\036\006\003\125\004\013\023\027\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\061\026\060\024\006\003\125\004\003\023\015\123\123\103
\040\122\157\157\164\040\103\101\040\103\060\202\002\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002
\017\000\060\202\002\012\002\202\002\001\000\241\105\042\372\214
\314\251\157\004\263\364\150\062\026\151\021\117\171\337\103\275
\121\140\160\032\230\335\170\170\226\230\142\367\160\113\201\250
\340\035\004\211\364\217\353\156\351\360\377\201\330\056\175\257
\027\040\361\042\357\360\077\105\107\100\264\313\262\270\040\077
\076\112\150\120\377\232\006\327\227\305\267\212\026\056\161\322
\107\163\135\030\145\057\357\071\063\350\266\125\257\046\255\002
\200\351\143\327\041\160\007\076\314\276\137\211\300\370\316\035
\045\156\303\374\177\126\071\141\321\216\302\046\172\347\170\002
\012\131\335\125\043\260\370\065\247\342\253\363\253\057\327\265
\213\012\052\162\124\053\155\171\274\362\331\351\103\371\317\361
\216\146\022\367\227\131\052\331\327\224\334\370\224\263\105\243
\257\026\055\263\200\312\075\316\350\246\307\012\224\164\374\067
\232\351\077\014\067\026\040\103\311\107\160\273\214\205\374\230
\211\051\313\207\031\176\031\123\020\211\200\165\256\023\361\277
\244\135\060\005\051\174\250\367\266\136\007\060\025\210\256\115
\025\240\312\315\327\377\253\243\006\127\017\247\343\211\151\034
\326\032\321\324\047\337\226\306\070\134\257\167\376\025\253\104
\101\175\323\230\273\250\040\030\257\213\155\324\132\302\330\226
\215\110\365\007\061\176\141\364\141\233\122\201\100\216\112\047
\004\262\007\323\002\020\224\363\373\335\261\173\160\270\264\310
\201\365\000\007\246\215\210\005\115\304\217\226\316\324\266\300
\301\146\214\052\254\150\112\311\106\334\015\346\056\250\171\050
\175\167\103\160\026\176\034\032\072\246\171\117\023\100\211\261
\062\273\011\106\021\015\164\274\047\345\330\355\055\372\120\051
\334\045\312\227\020\347\251\242\141\056\072\211\246\104\141\276
\117\136\222\011\355\334\056\246\357\123\273\141\045\330\047\245
\024\106\051\205\046\000\330\371\371\005\325\173\026\061\102\103
\005\027\221\234\112\140\100\044\155\265\155\172\171\373\234\232
\143\303\230\151\345\167\142\043\052\121\211\017\154\262\375\303
\312\330\364\032\103\224\320\175\013\341\130\076\032\310\164\204
\233\367\254\202\256\121\105\222\322\006\131\341\263\301\336\245
\037\223\042\171\330\315\304\171\140\043\225\002\003\001\000\001
\243\201\267\060\201\264\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\075\006\003\125\035\040\004\066
\060\064\060\062\006\013\053\006\001\004\001\201\257\145\001\002
\000\060\043\060\041\006\010\053\006\001\005\005\007\002\001\026
\025\150\164\164\160\072\057\057\167\167\167\056\163\163\143\056

\154\164\057\143\160\163\060\063\006\003\125\035\037\004\054\060
\052\060\050\240\046\240\044\206\042\150\164\164\160\072\057\057
\143\162\154\056\163\163\143\056\154\164\057\162\157\157\164\055
\143\057\143\141\143\162\154\056\143\162\154\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003\125
\035\016\004\026\004\024\210\007\163\366\361\274\122\032\132\035
\075\221\142\355\135\254\235\013\345\267\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\003\202\002\001\000\037\220
\161\120\230\325\331\064\322\226\204\030\302\254\106\002\040\034
\313\071\261\267\257\005\244\327\130\363\221\121\175\216\201\047
\234\350\222\261\347\034\237\072\213\020\122\163\114\302\307\102
\035\320\353\336\052\312\042\121\175\214\164\172\032\374\274\244
\363\163\310\146\043\304\056\103\020\107\340\212\151\127\356\057
\362\000\122\260\060\222\252\326\324\025\305\127\313\140\172\364
\016\215\376\036\011\143\164\217\340\376\276\120\331\001\071\126
\272\120\114\366\343\105\232\273\122\166\336\176\235\373\215\302
\124\061\076\307\261\074\076\337\343\117\375\335\233\044\151\174
\355\350\161\266\102\006\307\037\305\137\373\040\165\333\301\375
\351\154\242\052\220\324\206\375\315\015\377\340\005\212\130\141
\075\237\304\231\057\355\333\174\304\015\230\230\125\234\164\242
\027\136\333\252\021\344\067\014\044\377\040\147\321\045\333\232
\211\240\145\210\061\221\004\161\137\040\224\130\063\066\035\062
\336\157\327\147\010\251\240\073\375\333\244\120\045\226\036\251
\137\211\027\245\227\231\121\225\151\333\304\361\217\364\157\060
\053\131\363\254\165\207\063\175\006\335\341\301\153\326\304\311
\136\160\104\172\152\307\234\167\073\026\376\376\165\276\237\054
\321\300\003\356\021\171\165\354\251\133\034\172\205\265\050\120
\040\251\032\035\346\173\214\063\030\377\301\355\310\166\145\037
\035\360\114\073\247\333\352\315\126\330\224\127\077\340\110\251
\177\214\063\113\275\364\014\145\024\200\202\364\065\167\330\004
\020\160\316\017\154\301\131\313\231\255\201\356\336\075\110\320
\172\210\057\100\223\327\234\272\171\204\030\200\165\337\320\132
\337\121\167\076\130\211\151\165\107\061\344\152\026\160\124\004
\354\275\134\171\123\143\322\342\136\275\115\045\332\021\266\017
\252\351\054\256\365\321\251\215\002\126\313\374\260\044\352\214
\272\160\377\062\320\267\306\004\052\143\325\312\106\221\325\231
\162\011\007\136\050\003\253\022\034\045\263\154\072\131\145\264
\164\155\055\055\031\162\157\375\347\230\021\207\036\163\043\277
\065\361\233\266\303\331\314\073\120\174\162\350\317\136\300\230
\314\056\003\375\037\057\312\164\134\261\034\321\354\151
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "SSC Root CA C"
Issuer: CN=SSC Root CA C,OU=Certification Authority,O=Skaitmeninio sertifikavimo centras,C=LT

Serial Number:34:b9:12:9f:ac:c7:92:55:42:5c:de:57:ff:e3:c0:05
Subject: CN=SSC Root CA C,OU=Certification Authority,O=Skaitmeninio sertifikavimo centras,C=LT
Not Valid Before: Wed Dec 27 12:26:30 2006
Not Valid After: Tue Dec 22 12:11:30 2026
Fingerprint (MD5): 3c:4c:25:cc:0a:19:ca:ee:6a:eb:55:16:00:86:72:5f
Fingerprint (SHA1): 23:e8:33:23:3e:7d:0c:c9:2b:7c:42:79:ac:19:c2:f4:74:d6:04:ca
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSC Root CA C"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\043\350\063\043\076\175\014\311\053\174\102\171\254\031\302\364
\164\326\004\312
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\074\114\045\314\012\031\312\356\152\353\125\026\000\206\162\137
END
CKA_ISSUER MULTILINE_OCTAL
\060\164\061\013\060\011\006\003\125\004\006\023\002\114\124\061
\053\060\051\006\003\125\004\012\023\042\123\153\141\151\164\155
\145\156\151\156\151\157\040\163\145\162\164\151\146\151\153\141
\166\151\155\157\040\143\145\156\164\162\141\163\061\040\060\036
\006\003\125\004\013\023\027\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\061\026
\060\024\006\003\125\004\003\023\015\123\123\103\040\122\157\157
\164\040\103\101\040\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\064\271\022\237\254\307\222\125\102\134\336\127\377\343
\300\005
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Autoridad de Certificacion de la Abogacia"
Issuer: CN=Autoridad de Certificacion de la Abogacia,O=Consejo General de la Abogacia NIF:Q-2863006I,C=ES
Serial Number:90:8b:32:4f:c1:90:1a:ce:b4:c3:38:09:cd:cf:e4
Subject: CN=Autoridad de Certificacion de la Abogacia,O=Consejo General de la Abogacia NIF:Q-2863006I,C=ES
Not Valid Before: Mon Jun 13 22:00:00 2005
Not Valid After: Thu Jun 13 22:00:00 2030
Fingerprint (MD5): 15:ee:9f:5a:a0:85:28:df:6b:dd:34:a3:a0:56:d8:30
Fingerprint (SHA1): 7f:8a:77:83:6b:dc:6d:06:8f:8b:07:37:fc:c5:72:54:13:06:8c:a4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion de la Abogacia"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\171\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\066\060\064\006\003\125\004\012\023\055\103\157\156\163\145\152
\157\040\107\145\156\145\162\141\154\040\144\145\040\154\141\040
\101\142\157\147\141\143\151\141\040\116\111\106\072\121\055\062
\070\066\063\060\060\066\111\061\062\060\060\006\003\125\004\003
\023\051\101\165\164\157\162\151\144\141\144\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\156\040\144\145\040
\154\141\040\101\142\157\147\141\143\151\141
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\171\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\066\060\064\006\003\125\004\012\023\055\103\157\156\163\145\152
\157\040\107\145\156\145\162\141\154\040\144\145\040\154\141\040
\101\142\157\147\141\143\151\141\040\116\111\106\072\121\055\062
\070\066\063\060\060\066\111\061\062\060\060\006\003\125\004\003
\023\051\101\165\164\157\162\151\144\141\144\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\156\040\144\145\040
\154\141\040\101\142\157\147\141\143\151\141
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\000\220\213\062\117\301\220\032\316\264\303\070\011\315
\317\344
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\274\060\202\003\244\240\003\002\001\002\002\020\000
\220\213\062\117\301\220\032\316\264\303\070\011\315\317\344\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\171
\061\013\060\011\006\003\125\004\006\023\002\105\123\061\066\060
\064\006\003\125\004\012\023\055\103\157\156\163\145\152\157\040
\107\145\156\145\162\141\154\040\144\145\040\154\141\040\101\142
\157\147\141\143\151\141\040\116\111\106\072\121\055\062\070\066
\063\060\060\066\111\061\062\060\060\006\003\125\004\003\023\051
\101\165\164\157\162\151\144\141\144\040\144\145\040\103\145\162
\164\151\146\151\143\141\143\151\157\156\040\144\145\040\154\141
\040\101\142\157\147\141\143\151\141\060\036\027\015\060\065\060
\066\061\063\062\062\060\060\060\060\132\027\015\063\060\060\066
\061\063\062\062\060\060\060\060\132\060\171\061\013\060\011\006
\003\125\004\006\023\002\105\123\061\066\060\064\006\003\125\004
\012\023\055\103\157\156\163\145\152\157\040\107\145\156\145\162
\141\154\040\144\145\040\154\141\040\101\142\157\147\141\143\151
\141\040\116\111\106\072\121\055\062\070\066\063\060\060\066\111

\061\062\060\060\006\003\125\004\003\023\051\101\165\164\157\162
\151\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143
\141\143\151\157\156\040\144\145\040\154\141\040\101\142\157\147
\141\143\151\141\060\202\001\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012
\002\202\001\001\000\264\262\127\356\205\360\043\350\015\373\262
\200\204\361\020\147\253\262\371\111\337\134\336\133\344\217\051
\031\123\311\325\350\034\120\153\141\002\214\207\360\217\074\301
\105\222\013\254\231\241\306\032\205\326\075\255\176\046\246\035
\270\075\262\263\076\212\305\012\062\323\113\221\357\111\165\176
\126\367\376\240\010\142\106\053\316\352\362\121\237\140\336\062
\310\355\032\247\317\165\134\353\075\300\275\232\110\245\206\224
\316\130\120\024\352\152\341\232\364\214\145\225\341\140\025\045
\225\022\366\272\170\213\262\300\355\346\154\227\044\132\035\344
\164\103\312\070\304\065\224\130\216\365\212\260\150\074\050\054
\104\226\011\277\011\133\162\012\347\147\074\220\271\124\070\164
\124\273\155\055\152\103\310\274\357\011\254\037\043\350\122\126
\136\065\027\137\053\273\136\315\145\122\245\024\174\073\262\252
\351\335\047\265\067\043\073\006\015\054\173\215\272\332\157\146
\027\206\247\266\327\036\007\135\036\154\031\227\310\345\043\163
\170\321\256\371\036\272\241\256\111\042\355\145\161\037\177\367
\132\164\104\215\103\002\003\001\000\001\243\202\001\076\060\202
\001\072\060\067\006\003\125\035\021\004\060\060\056\201\021\141
\143\100\141\143\141\142\157\147\141\143\151\141\056\157\162\147
\206\031\150\164\164\160\072\057\057\167\167\167\056\141\143\141
\142\157\147\141\143\151\141\056\157\162\147\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\006\060\021\006\011
\140\206\110\001\206\370\102\001\001\004\004\003\002\000\007\060
\035\006\003\125\035\016\004\026\004\024\374\210\114\216\155\004
\241\040\220\323\370\034\232\263\147\004\137\171\200\306\060\201
\253\006\003\125\035\040\004\201\243\060\201\240\060\201\235\006
\013\053\006\001\004\001\201\201\025\012\001\001\060\201\215\060
\051\006\010\053\006\001\005\005\007\002\001\026\035\150\164\164
\160\072\057\057\167\167\167\056\141\143\141\142\157\147\141\143
\151\141\056\157\162\147\057\144\157\143\060\140\006\010\053\006
\001\005\005\007\002\002\060\124\032\122\103\157\156\163\165\154
\164\145\040\154\141\040\144\145\143\154\141\162\141\143\151\157
\156\040\144\145\040\160\162\141\143\164\151\143\141\163\040\144
\145\040\143\145\162\164\151\146\151\143\141\143\151\157\156\040
\145\156\040\150\164\164\160\072\057\057\167\167\167\056\141\143
\141\142\157\147\141\143\151\141\056\157\162\147\060\015\006\011
\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000
\230\247\372\071\265\163\021\046\177\274\211\077\264\153\045\063
\061\012\206\070\153\311\036\025\227\024\340\322\114\055\205\364
\074\164\233\215\050\021\373\314\016\046\271\200\203\026\321\371
\106\230\266\106\007\216\146\205\155\160\300\272\114\200\363\244
\360\325\067\124\053\257\146\204\162\163\371\110\057\011\316\341

\205\001\312\217\340\207\336\240\227\320\224\264\015\265\115\016
\147\054\310\140\304\062\224\300\101\201\007\215\272\277\251\350
\014\100\232\102\170\005\135\201\353\142\034\344\117\024\012\075
\013\076\037\351\364\315\175\356\105\273\274\336\135\363\230\227
\046\173\306\023\051\370\053\177\032\324\352\372\262\156\040\236
\332\027\352\241\222\275\067\351\016\273\273\221\325\045\366\140
\135\205\041\120\133\377\124\135\365\113\073\264\303\051\021\130
\002\366\045\344\341\202\202\273\242\215\347\221\044\136\100\221
\236\107\007\214\063\127\324\142\061\121\166\165\205\103\157\011
\253\021\245\045\051\271\330\377\137\245\367\077\353\145\073\035
\357\206\345\026\042\325\036\312\062\151\175\176\005\327\060\047
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Autoridad de Certificacion de la Abogacia"
Issuer: CN=Autoridad de Certificacion de la Abogacia,O=Consejo General de la Abogacia NIF:Q-2863006I,C=ES
Serial Number:90:8b:32:4f:c1:90:1a:ce:b4:c3:38:09:cd:cf:e4
Subject: CN=Autoridad de Certificacion de la Abogacia,O=Consejo General de la Abogacia NIF:Q-2863006I,C=ES
Not Valid Before: Mon Jun 13 22:00:00 2005
Not Valid After: Thu Jun 13 22:00:00 2030
Fingerprint (MD5): 15:ee:9f:5a:a0:85:28:df:6b:dd:34:a3:a0:56:d8:30
Fingerprint (SHA1): 7f:8a:77:83:6b:dc:6d:06:8f:8b:07:37:fc:c5:72:54:13:06:8c:a4
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion de la Abogacia"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\177\212\167\203\153\334\155\006\217\213\007\067\374\305\162\124
\023\006\214\244
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\025\356\237\132\240\205\050\337\153\335\064\243\240\126\330\060
END
CKA_ISSUER MULTILINE_OCTAL
\060\171\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\066\060\064\006\003\125\004\012\023\055\103\157\156\163\145\152
\157\040\107\145\156\145\162\141\154\040\144\145\040\154\141\040
\101\142\157\147\141\143\151\141\040\116\111\106\072\121\055\062
\070\066\063\060\060\066\111\061\062\060\060\006\003\125\004\003
\023\051\101\165\164\157\162\151\144\141\144\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\156\040\144\145\040
\154\141\040\101\142\157\147\141\143\151\141
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\000\220\213\062\117\301\220\032\316\264\303\070\011\315
\317\344
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Root CA Generalitat Valenciana"
Issuer: CN=Root CA Generalitat Valenciana,OU=PKIGVA,O=Generalitat Valenciana,C=ES
Serial Number:3b:45:e5:68
Subject: CN=Root CA Generalitat Valenciana,OU=PKIGVA,O=Generalitat Valenciana,C=ES
Not Valid Before: Fri Jul 06 16:22:47 2001
Not Valid After: Thu Jul 01 15:22:47 2021
Fingerprint (MD5): 2c:8c:17:5e:b1:54:ab:93:17:b5:36:5a:db:d1:c6:f2
Fingerprint (SHA1): a0:73:e5:c5:bd:43:61:0d:86:4c:21:13:0a:85:58:57:cc:9c:ea:46
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Root CA Generalitat Valenciana"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\150\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\037\060\035\006\003\125\004\012\023\026\107\145\156\145\162\141
\154\151\164\141\164\040\126\141\154\145\156\143\151\141\156\141
\061\017\060\015\006\003\125\004\013\023\006\120\113\111\107\126
\101\061\047\060\045\006\003\125\004\003\023\036\122\157\157\164
\040\103\101\040\107\145\156\145\162\141\154\151\164\141\164\040
\126\141\154\145\156\143\151\141\156\141
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\150\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\037\060\035\006\003\125\004\012\023\026\107\145\156\145\162\141
\154\151\164\141\164\040\126\141\154\145\156\143\151\141\156\141
\061\017\060\015\006\003\125\004\013\023\006\120\113\111\107\126
\101\061\047\060\045\006\003\125\004\003\023\036\122\157\157\164
\040\103\101\040\107\145\156\145\162\141\154\151\164\141\164\040
\126\141\154\145\156\143\151\141\156\141
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\073\105\345\150
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\213\060\202\005\163\240\003\002\001\002\002\004\073

\105\345\150\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\060\150\061\013\060\011\006\003\125\004\006\023\002\105
\123\061\037\060\035\006\003\125\004\012\023\026\107\145\156\145
\162\141\154\151\164\141\164\040\126\141\154\145\156\143\151\141
\156\141\061\017\060\015\006\003\125\004\013\023\006\120\113\111
\107\126\101\061\047\060\045\006\003\125\004\003\023\036\122\157
\157\164\040\103\101\040\107\145\156\145\162\141\154\151\164\141
\164\040\126\141\154\145\156\143\151\141\156\141\060\036\027\015
\060\061\060\067\060\066\061\066\062\062\064\067\132\027\015\062
\061\060\067\060\061\061\065\062\062\064\067\132\060\150\061\013
\060\011\006\003\125\004\006\023\002\105\123\061\037\060\035\006
\003\125\004\012\023\026\107\145\156\145\162\141\154\151\164\141
\164\040\126\141\154\145\156\143\151\141\156\141\061\017\060\015
\006\003\125\004\013\023\006\120\113\111\107\126\101\061\047\060
\045\006\003\125\004\003\023\036\122\157\157\164\040\103\101\040
\107\145\156\145\162\141\154\151\164\141\164\040\126\141\154\145
\156\143\151\141\156\141\060\202\001\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202
\001\012\002\202\001\001\000\306\052\253\127\021\067\057\042\212
\312\003\164\035\312\355\055\242\013\274\063\122\100\046\107\276
\132\151\246\073\162\066\027\114\350\337\270\273\057\166\341\100
\106\164\145\002\220\122\010\264\377\250\214\301\340\307\211\126
\020\071\063\357\150\264\137\137\332\155\043\241\211\136\042\243
\112\006\360\047\360\127\271\370\351\116\062\167\012\077\101\144
\363\353\145\356\166\376\124\252\175\035\040\256\363\327\164\302
\012\137\365\010\050\122\010\314\125\135\322\017\333\232\201\245
\273\241\263\301\224\315\124\340\062\165\061\221\032\142\262\336
\165\342\317\117\211\331\221\220\017\101\033\264\132\112\167\275
\147\203\340\223\347\136\247\014\347\201\323\364\122\254\123\262
\003\307\104\046\373\171\345\313\064\140\120\020\173\033\333\153
\327\107\253\137\174\150\312\156\235\101\003\020\356\153\231\173
\136\045\250\302\253\344\300\363\134\234\343\276\316\061\114\144
\036\136\200\242\365\203\176\014\326\312\214\125\216\276\340\276
\111\007\017\243\044\101\172\130\035\204\352\130\022\310\341\267
\355\357\223\336\224\010\061\002\003\001\000\001\243\202\003\073
\060\202\003\067\060\062\006\010\053\006\001\005\005\007\001\001
\004\046\060\044\060\042\006\010\053\006\001\005\005\007\060\001
\206\026\150\164\164\160\072\057\057\157\143\163\160\056\160\153
\151\056\147\166\141\056\145\163\060\022\006\003\125\035\023\001
\001\377\004\010\060\006\001\001\377\002\001\002\060\202\002\064
\006\003\125\035\040\004\202\002\053\060\202\002\047\060\202\002
\043\006\012\053\006\001\004\001\277\125\002\001\000\060\202\002
\023\060\202\001\350\006\010\053\006\001\005\005\007\002\002\060
\202\001\332\036\202\001\326\000\101\000\165\000\164\000\157\000
\162\000\151\000\144\000\141\000\144\000\040\000\144\000\145\000
\040\000\103\000\145\000\162\000\164\000\151\000\146\000\151\000
\143\000\141\000\143\000\151\000\363\000\156\000\040\000\122\000
\141\000\355\000\172\000\040\000\144\000\145\000\040\000\154\000

\141\000\040\000\107\000\145\000\156\000\145\000\162\000\141\000
\154\000\151\000\164\000\141\000\164\000\040\000\126\000\141\000
\154\000\145\000\156\000\143\000\151\000\141\000\156\000\141\000
\056\000\015\000\012\000\114\000\141\000\040\000\104\000\145\000
\143\000\154\000\141\000\162\000\141\000\143\000\151\000\363\000
\156\000\040\000\144\000\145\000\040\000\120\000\162\000\341\000
\143\000\164\000\151\000\143\000\141\000\163\000\040\000\144\000
\145\000\040\000\103\000\145\000\162\000\164\000\151\000\146\000
\151\000\143\000\141\000\143\000\151\000\363\000\156\000\040\000
\161\000\165\000\145\000\040\000\162\000\151\000\147\000\145\000
\040\000\145\000\154\000\040\000\146\000\165\000\156\000\143\000
\151\000\157\000\156\000\141\000\155\000\151\000\145\000\156\000
\164\000\157\000\040\000\144\000\145\000\040\000\154\000\141\000
\040\000\160\000\162\000\145\000\163\000\145\000\156\000\164\000
\145\000\040\000\101\000\165\000\164\000\157\000\162\000\151\000
\144\000\141\000\144\000\040\000\144\000\145\000\040\000\103\000
\145\000\162\000\164\000\151\000\146\000\151\000\143\000\141\000
\143\000\151\000\363\000\156\000\040\000\163\000\145\000\040\000
\145\000\156\000\143\000\165\000\145\000\156\000\164\000\162\000
\141\000\040\000\145\000\156\000\040\000\154\000\141\000\040\000
\144\000\151\000\162\000\145\000\143\000\143\000\151\000\363\000
\156\000\040\000\167\000\145\000\142\000\040\000\150\000\164\000
\164\000\160\000\072\000\057\000\057\000\167\000\167\000\167\000
\056\000\160\000\153\000\151\000\056\000\147\000\166\000\141\000
\056\000\145\000\163\000\057\000\143\000\160\000\163\060\045\006
\010\053\006\001\005\005\007\002\001\026\031\150\164\164\160\072
\057\057\167\167\167\056\160\153\151\056\147\166\141\056\145\163
\057\143\160\163\060\035\006\003\125\035\016\004\026\004\024\173
\065\323\100\322\034\170\031\146\357\164\020\050\334\076\117\262
\170\004\374\060\201\225\006\003\125\035\043\004\201\215\060\201
\212\200\024\173\065\323\100\322\034\170\031\146\357\164\020\050
\334\076\117\262\170\004\374\241\154\244\152\060\150\061\013\060
\011\006\003\125\004\006\023\002\105\123\061\037\060\035\006\003
\125\004\012\023\026\107\145\156\145\162\141\154\151\164\141\164
\040\126\141\154\145\156\143\151\141\156\141\061\017\060\015\006
\003\125\004\013\023\006\120\113\111\107\126\101\061\047\060\045
\006\003\125\004\003\023\036\122\157\157\164\040\103\101\040\107
\145\156\145\162\141\154\151\164\141\164\040\126\141\154\145\156
\143\151\141\156\141\202\004\073\105\345\150\060\015\006\011\052
\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000\044
\141\116\365\265\310\102\002\052\263\134\165\255\305\155\312\347
\224\077\245\150\225\210\301\124\300\020\151\242\022\057\030\077
\045\120\250\174\112\352\306\011\331\364\165\306\100\332\257\120
\235\075\245\026\273\155\061\306\307\163\012\110\376\040\162\355
\157\314\350\203\141\026\106\220\001\225\113\175\216\232\122\011
\057\366\157\034\344\241\161\317\214\052\132\027\163\203\107\115
\017\066\373\004\115\111\121\342\024\311\144\141\373\324\024\340
\364\236\267\064\217\012\046\275\227\134\364\171\072\112\060\031

\314\255\117\240\230\212\264\061\227\052\342\163\155\176\170\270
\370\210\211\117\261\042\221\144\113\365\120\336\003\333\345\305
\166\347\023\146\165\176\145\373\001\237\223\207\210\235\371\106
\127\174\115\140\257\230\163\023\043\244\040\221\201\372\320\141
\146\270\175\321\257\326\157\036\154\075\351\021\375\251\371\202
\042\206\231\063\161\132\352\031\127\075\221\315\251\300\243\156
\007\023\246\311\355\370\150\243\236\303\132\162\011\207\050\321
\304\163\304\163\030\137\120\165\026\061\237\267\350\174\303
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Root CA Generalitat Valenciana"
Issuer: CN=Root CA Generalitat Valenciana,OU=PKIGVA,O=Generalitat Valenciana,C=ES
Serial Number:3b:45:e5:68
Subject: CN=Root CA Generalitat Valenciana,OU=PKIGVA,O=Generalitat Valenciana,C=ES
Not Valid Before: Fri Jul 06 16:22:47 2001
Not Valid After: Thu Jul 01 15:22:47 2021
Fingerprint (MD5): 2c:8c:17:5e:b1:54:ab:93:17:b5:36:5a:db:d1:c6:f2
Fingerprint (SHA1): a0:73:e5:c5:bd:43:61:0d:86:4c:21:13:0a:85:58:57:cc:9c:ea:46
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Root CA Generalitat Valenciana"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\240\163\345\305\275\103\141\015\206\114\041\023\012\205\130\127
\314\234\352\106
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\054\214\027\136\261\124\253\223\027\265\066\132\333\321\306\362
END
CKA_ISSUER MULTILINE_OCTAL
\060\150\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\037\060\035\006\003\125\004\012\023\026\107\145\156\145\162\141
\154\151\164\141\164\040\126\141\154\145\156\143\151\141\156\141
\061\017\060\015\006\003\125\004\013\023\006\120\113\111\107\126
\101\061\047\060\045\006\003\125\004\003\023\036\122\157\157\164
\040\103\101\040\107\145\156\145\162\141\154\151\164\141\164\040
\126\141\154\145\156\143\151\141\156\141
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\073\105\345\150
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "VAS Latvijas Pasts SSI(RCA)"
Issuer: CN=VAS Latvijas Pasts SSI(RCA),OU=Sertifikacijas pakalpojumi,O=VAS Latvijas Pasts - Vien.reg.Nr.40003052790,C=LV
Serial Number:63:06:86:a7:c5:37:65:a5:43:90:a8:6a:58:cc:d4:32
Subject: CN=VAS Latvijas Pasts SSI(RCA),OU=Sertifikacijas pakalpojumi,O=VAS Latvijas Pasts - Vien.reg.Nr.40003052790,C=LV
Not Valid Before: Wed Sep 13 09:22:10 2006
Not Valid After: Fri Sep 13 09:27:57 2024
Fingerprint (MD5): fd:49:be:5b:18:5a:25:ec:f9:c3:54:85:10:40:e8:d4
Fingerprint (SHA1): 08:64:18:e9:06:ce:e8:9c:23:53:b6:e2:7f:bd:9e:74:39:f7:63:16
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "VAS Latvijas Pasts SSI(RCA)"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\217\061\013\060\011\006\003\125\004\006\023\002\114\126
\061\065\060\063\006\003\125\004\012\023\054\126\101\123\040\114
\141\164\166\151\152\141\163\040\120\141\163\164\163\040\055\040
\126\151\145\156\056\162\145\147\056\116\162\056\064\060\060\060
\063\060\065\062\067\071\060\061\043\060\041\006\003\125\004\013
\023\032\123\145\162\164\151\146\151\153\141\143\151\152\141\163
\040\160\141\153\141\154\160\157\152\165\155\151\061\044\060\042
\006\003\125\004\003\023\033\126\101\123\040\114\141\164\166\151
\152\141\163\040\120\141\163\164\163\040\123\123\111\050\122\103
\101\051
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\217\061\013\060\011\006\003\125\004\006\023\002\114\126
\061\065\060\063\006\003\125\004\012\023\054\126\101\123\040\114
\141\164\166\151\152\141\163\040\120\141\163\164\163\040\055\040
\126\151\145\156\056\162\145\147\056\116\162\056\064\060\060\060
\063\060\065\062\067\071\060\061\043\060\041\006\003\125\004\013
\023\032\123\145\162\164\151\146\151\153\141\143\151\152\141\163
\040\160\141\153\141\154\160\157\152\165\155\151\061\044\060\042
\006\003\125\004\003\023\033\126\101\123\040\114\141\164\166\151
\152\141\163\040\120\141\163\164\163\040\123\123\111\050\122\103
\101\051
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\143\006\206\247\305\067\145\245\103\220\250\152\130\314
\324\062

END
CKA_VALUE MULTILINE_OCTAL
\060\202\007\251\060\202\005\221\240\003\002\001\002\002\020\143
\006\206\247\305\067\145\245\103\220\250\152\130\314\324\062\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\201
\217\061\013\060\011\006\003\125\004\006\023\002\114\126\061\065
\060\063\006\003\125\004\012\023\054\126\101\123\040\114\141\164
\166\151\152\141\163\040\120\141\163\164\163\040\055\040\126\151
\145\156\056\162\145\147\056\116\162\056\064\060\060\060\063\060
\065\062\067\071\060\061\043\060\041\006\003\125\004\013\023\032
\123\145\162\164\151\146\151\153\141\143\151\152\141\163\040\160
\141\153\141\154\160\157\152\165\155\151\061\044\060\042\006\003
\125\004\003\023\033\126\101\123\040\114\141\164\166\151\152\141
\163\040\120\141\163\164\163\040\123\123\111\050\122\103\101\051
\060\036\027\015\060\066\060\071\061\063\060\071\062\062\061\060
\132\027\015\062\064\060\071\061\063\060\071\062\067\065\067\132
\060\201\217\061\013\060\011\006\003\125\004\006\023\002\114\126
\061\065\060\063\006\003\125\004\012\023\054\126\101\123\040\114
\141\164\166\151\152\141\163\040\120\141\163\164\163\040\055\040
\126\151\145\156\056\162\145\147\056\116\162\056\064\060\060\060
\063\060\065\062\067\071\060\061\043\060\041\006\003\125\004\013
\023\032\123\145\162\164\151\146\151\153\141\143\151\152\141\163
\040\160\141\153\141\154\160\157\152\165\155\151\061\044\060\042
\006\003\125\004\003\023\033\126\101\123\040\114\141\164\166\151
\152\141\163\040\120\141\163\164\163\040\123\123\111\050\122\103
\101\051\060\202\002\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202
\002\001\000\233\270\371\375\141\125\057\117\244\245\024\265\056
\216\271\044\217\254\373\261\124\077\100\377\117\305\345\206\150
\173\123\223\373\065\202\065\250\120\056\224\122\240\333\203\076
\165\332\025\160\254\011\317\356\202\111\255\066\111\271\264\161
\213\264\000\241\102\006\312\010\012\143\227\266\010\374\356\264
\334\230\170\031\202\311\370\177\144\076\252\311\376\261\215\353
\260\144\365\274\363\304\076\072\220\352\116\216\077\033\031\274
\152\203\303\221\074\154\125\373\012\122\300\350\341\135\167\205
\063\305\111\337\354\152\277\277\154\067\376\216\111\242\025\030
\316\213\216\153\036\070\243\060\157\210\201\176\162\126\104\032
\304\172\071\017\366\304\217\226\324\262\353\000\116\134\336\273
\347\073\267\346\044\005\223\153\115\346\221\104\277\356\230\033
\307\205\033\021\101\173\042\066\247\276\076\350\172\067\334\030
\336\220\235\217\315\262\327\232\077\342\027\177\133\014\341\357
\077\146\075\156\044\344\260\316\303\014\210\154\224\332\070\045
\174\122\071\343\163\024\263\000\105\143\232\014\102\100\136\004
\306\367\162\144\316\311\156\063\263\344\323\155\044\225\067\223
\176\362\000\135\031\213\037\363\103\163\250\237\105\322\006\251
\354\264\102\273\372\356\014\307\117\077\121\037\321\257\320\254
\030\177\207\201\042\376\251\335\007\226\155\174\370\116\331\115
\072\120\151\325\101\176\305\332\164\330\216\163\345\176\203\341

\303\031\201\267\275\277\100\216\276\056\232\242\014\252\116\002
\056\273\052\341\010\135\061\003\311\254\047\260\257\334\325\310
\024\175\100\235\125\211\041\371\220\314\324\311\140\101\163\253
\350\315\330\072\125\071\012\202\231\376\233\365\365\074\034\221
\313\300\372\106\124\256\041\374\052\254\134\173\336\172\227\161
\375\154\153\315\110\232\244\333\201\174\030\067\057\220\175\141
\224\275\027\311\134\266\124\026\167\312\011\112\252\351\274\117
\224\165\001\132\126\274\222\322\217\271\327\227\336\126\164\001
\367\026\161\111\261\365\030\106\231\101\356\142\341\263\054\145
\165\151\051\162\103\003\370\233\037\372\070\364\236\354\100\020
\216\254\227\325\260\063\276\237\030\334\055\367\101\170\124\112
\142\104\347\002\003\001\000\001\243\202\001\375\060\202\001\371
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006
\060\030\006\010\053\006\001\005\005\007\001\003\004\014\060\012
\060\010\006\006\004\000\216\106\001\001\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125
\035\016\004\026\004\024\314\303\365\146\377\163\254\070\132\226
\033\041\211\270\201\114\037\313\136\045\060\020\006\011\053\006
\001\004\001\202\067\025\001\004\003\002\001\000\060\202\001\211
\006\003\125\035\040\004\202\001\200\060\202\001\174\060\202\001
\170\006\013\053\006\001\004\001\201\304\131\001\001\002\060\202
\001\147\060\202\001\070\006\010\053\006\001\005\005\007\002\002
\060\202\001\052\036\202\001\046\000\123\000\151\000\163\000\040
\000\151\000\162\000\040\000\163\000\145\000\162\000\164\000\151
\000\146\000\151\000\153\000\141\000\164\000\163\000\054\000\040
\000\153\000\157\000\040\000\151\000\172\000\144\000\145\000\166
\000\151\000\163\000\040\000\126\000\101\000\123\000\040\000\114
\000\141\000\164\000\166\000\151\000\152\000\141\000\163\000\040
\000\120\000\141\000\163\000\164\000\163\000\054\000\040\000\156
\000\157\000\144\000\162\000\157\000\163\000\151\000\156\000\157
\000\164\000\040\000\141\000\164\000\142\000\151\000\154\000\163
\000\164\000\151\000\142\000\165\000\040\000\105\000\154\000\145
\000\153\000\164\000\162\000\157\000\156\000\151\000\163\000\153
\000\157\000\040\000\144\000\157\000\153\000\165\000\155\000\145
\000\156\000\164\000\165\000\040\000\154\000\151\000\153\000\165
\000\155\000\141\000\155\000\040\000\165\000\156\000\040\000\105
\000\151\000\162\000\157\000\160\000\141\000\163\000\040\000\120
\000\141\000\162\000\154\000\141\000\155\000\145\000\156\000\164
\000\141\000\040\000\144\000\151\000\162\000\145\000\153\000\164
\000\151\000\166\000\141\000\151\000\040\000\061\000\071\000\071
\000\071\000\057\000\071\000\063\000\057\000\105\000\113\060\051
\006\010\053\006\001\005\005\007\002\001\026\035\150\164\164\160
\072\057\057\167\167\167\056\145\055\155\145\056\154\166\057\162
\145\160\157\163\151\164\157\162\171\060\015\006\011\052\206\110
\206\367\015\001\001\005\005\000\003\202\002\001\000\037\050\112
\065\220\041\143\150\012\057\170\257\243\036\202\046\227\243\077
\047\031\322\113\243\102\172\006\023\145\133\301\004\313\353\175
\174\357\224\362\361\211\365\267\337\122\002\041\151\322\352\226

\064\345\240\317\227\270\234\125\016\020\205\243\024\136\054\005
\370\265\072\166\363\371\172\270\336\266\014\047\151\362\313\224
\221\013\035\271\325\216\157\231\057\315\362\031\126\071\072\110
\126\360\001\377\202\165\266\262\375\321\324\365\362\143\127\114
\115\241\176\314\020\272\004\151\357\364\024\374\263\227\037\105
\356\157\112\050\177\321\306\047\274\307\243\251\153\173\355\202
\023\157\253\336\017\373\161\353\134\021\032\251\054\320\060\237
\374\066\067\126\357\225\351\272\267\023\266\256\237\002\141\255
\236\354\153\004\157\066\237\017\231\367\302\311\310\114\050\271
\050\324\041\327\236\124\325\300\316\364\216\344\125\224\173\217
\044\306\070\374\253\172\244\126\167\075\250\105\357\144\222\244
\320\112\176\273\163\213\364\015\122\163\270\072\110\136\103\200
\323\251\160\167\142\377\307\050\034\163\036\103\346\047\044\133
\111\271\346\066\244\216\375\305\055\057\172\245\171\022\172\327
\041\262\045\155\310\017\242\303\141\113\345\110\342\127\272\237
\362\212\041\335\333\144\360\332\031\337\316\300\233\200\071\302
\167\167\143\025\123\162\204\372\244\217\007\067\206\041\175\120
\372\075\152\067\333\221\016\067\263\375\316\013\312\173\141\320
\234\164\234\175\070\150\155\351\173\035\326\361\052\264\357\073
\140\122\167\005\346\002\302\137\214\133\274\360\175\267\163\307
\221\153\262\052\263\143\243\064\325\253\255\045\161\107\377\032
\076\172\266\215\225\166\303\356\246\315\003\011\154\356\105\147
\230\317\231\110\166\301\316\212\164\232\150\122\001\064\042\310
\355\342\024\013\204\275\156\020\214\261\162\233\276\350\010\327
\127\325\177\352\264\001\075\116\344\342\350\147\347\214\176\351
\347\102\021\357\225\106\310\221\326\276\047\027\200\031\064\230
\347\306\337\036\374\041\137\236\206\075\274\176\360\234\275\162
\236\364\107\202\133\161\147\363\372\334\124\114\250\134\330\131
\307\320\007\016\023\063\047\274\364\151\360\153\041
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "VAS Latvijas Pasts SSI(RCA)"
Issuer: CN=VAS Latvijas Pasts SSI(RCA),OU=Sertifikacijas pakalpojumi,O=VAS Latvijas Pasts - Vien.reg.Nr.40003052790,C=LV
Serial Number:63:06:86:a7:c5:37:65:a5:43:90:a8:6a:58:cc:d4:32
Subject: CN=VAS Latvijas Pasts SSI(RCA),OU=Sertifikacijas pakalpojumi,O=VAS Latvijas Pasts - Vien.reg.Nr.40003052790,C=LV
Not Valid Before: Wed Sep 13 09:22:10 2006
Not Valid After: Fri Sep 13 09:27:57 2024
Fingerprint (MD5): fd:49:be:5b:18:5a:25:ec:f9:c3:54:85:10:40:e8:d4
Fingerprint (SHA1): 08:64:18:e9:06:ce:e8:9c:23:53:b6:e2:7f:bd:9e:74:39:f7:63:16
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "VAS Latvijas Pasts SSI(RCA)"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\010\144\030\351\006\316\350\234\043\123\266\342\177\275\236\164
\071\367\143\026
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\375\111\276\133\030\132\045\354\371\303\124\205\020\100\350\324
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\217\061\013\060\011\006\003\125\004\006\023\002\114\126
\061\065\060\063\006\003\125\004\012\023\054\126\101\123\040\114
\141\164\166\151\152\141\163\040\120\141\163\164\163\040\055\040
\126\151\145\156\056\162\145\147\056\116\162\056\064\060\060\060
\063\060\065\062\067\071\060\061\043\060\041\006\003\125\004\013
\023\032\123\145\162\164\151\146\151\153\141\143\151\152\141\163
\040\160\141\153\141\154\160\157\152\165\155\151\061\044\060\042
\006\003\125\004\003\023\033\126\101\123\040\114\141\164\166\151
\152\141\163\040\120\141\163\164\163\040\123\123\111\050\122\103
\101\051
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\143\006\206\247\305\067\145\245\103\220\250\152\130\314
\324\062
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "ANCERT Certificados CGN"
Issuer: CN=ANCERT Certificados CGN,O=Agencia Notarial de Certificacion S.L. Unipersonal - CIF B83395988,C=ES
Serial Number:44:74:ec:c8:6c:72:1e:58:dd:b8:2c:7e:f4:fc:95
Subject: CN=ANCERT Certificados CGN,O=Agencia Notarial de Certificacion S.L. Unipersonal - CIF B83395988,C=ES
Not Valid Before: Wed Feb 11 17:27:12 2004
Not Valid After: Sun Feb 11 17:27:12 2024
Fingerprint (MD5): 1c:4b:e2:c6:2d:b9:ac:31:14:f4:40:07:69:cb:1f:40
Fingerprint (SHA1): 11:c5:b5:f7:55:52:b0:11:66:9c:2e:97:17:de:6d:9b:ff:5f:a8:10
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANCERT Certificados CGN"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

\060\174\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\113\060\111\006\003\125\004\012\023\102\101\147\145\156\143\151
\141\040\116\157\164\141\162\151\141\154\040\144\145\040\103\145
\162\164\151\146\151\143\141\143\151\157\156\040\123\056\114\056
\040\125\156\151\160\145\162\163\157\156\141\154\040\055\040\103
\111\106\040\102\070\063\063\071\065\071\070\070\061\040\060\036
\006\003\125\004\003\023\027\101\116\103\105\122\124\040\103\145
\162\164\151\146\151\143\141\144\157\163\040\103\107\116
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\113\060\111\006\003\125\004\012\023\102\101\147\145\156\143\151
\141\040\116\157\164\141\162\151\141\154\040\144\145\040\103\145
\162\164\151\146\151\143\141\143\151\157\156\040\123\056\114\056
\040\125\156\151\160\145\162\163\157\156\141\154\040\055\040\103
\111\106\040\102\070\063\063\071\065\071\070\070\061\040\060\036
\006\003\125\004\003\023\027\101\116\103\105\122\124\040\103\145
\162\164\151\146\151\143\141\144\157\163\040\103\107\116
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\017\104\164\354\310\154\162\036\130\335\270\054\176\364\374
\225
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\052\060\202\004\022\240\003\002\001\002\002\017\104
\164\354\310\154\162\036\130\335\270\054\176\364\374\225\060\015
\006\011\052\206\110\206\367\015\001\001\005\005\000\060\174\061
\013\060\011\006\003\125\004\006\023\002\105\123\061\113\060\111
\006\003\125\004\012\023\102\101\147\145\156\143\151\141\040\116
\157\164\141\162\151\141\154\040\144\145\040\103\145\162\164\151
\146\151\143\141\143\151\157\156\040\123\056\114\056\040\125\156
\151\160\145\162\163\157\156\141\154\040\055\040\103\111\106\040
\102\070\063\063\071\065\071\070\070\061\040\060\036\006\003\125
\004\003\023\027\101\116\103\105\122\124\040\103\145\162\164\151
\146\151\143\141\144\157\163\040\103\107\116\060\036\027\015\060
\064\060\062\061\061\061\067\062\067\061\062\132\027\015\062\064
\060\062\061\061\061\067\062\067\061\062\132\060\174\061\013\060
\011\006\003\125\004\006\023\002\105\123\061\113\060\111\006\003
\125\004\012\023\102\101\147\145\156\143\151\141\040\116\157\164
\141\162\151\141\154\040\144\145\040\103\145\162\164\151\146\151
\143\141\143\151\157\156\040\123\056\114\056\040\125\156\151\160
\145\162\163\157\156\141\154\040\055\040\103\111\106\040\102\070
\063\063\071\065\071\070\070\061\040\060\036\006\003\125\004\003
\023\027\101\116\103\105\122\124\040\103\145\162\164\151\146\151
\143\141\144\157\163\040\103\107\116\060\202\001\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017
\000\060\202\001\012\002\202\001\001\000\220\165\077\077\014\254

\312\324\174\304\110\247\030\273\072\273\241\273\325\173\337\213
\031\344\202\104\373\145\354\266\022\141\076\151\042\031\142\065
\044\266\325\020\006\251\105\152\044\052\365\047\214\170\074\310
\271\363\005\154\305\002\003\322\116\200\144\354\206\253\170\224
\042\002\000\265\150\233\324\345\125\137\340\310\200\060\347\013
\277\153\327\004\216\116\171\230\160\114\034\046\271\263\250\352
\360\021\242\271\212\123\002\046\165\022\211\341\373\210\116\131
\172\000\321\202\330\026\256\345\266\274\225\045\140\100\167\045
\033\236\357\215\344\375\360\117\063\061\045\277\356\172\012\124
\360\220\070\147\022\173\245\140\332\014\001\211\232\166\207\056
\365\033\103\173\345\347\046\112\373\025\142\253\105\033\173\325
\012\245\115\154\115\253\237\050\110\204\341\203\165\270\030\160
\125\123\333\320\337\051\220\257\071\306\027\225\301\224\305\136
\331\145\137\135\377\156\026\225\230\041\237\136\115\360\315\061
\071\041\003\027\015\221\037\241\125\231\101\354\125\311\273\075
\231\134\233\305\177\321\034\136\352\123\002\003\001\000\001\243
\202\001\247\060\202\001\243\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\202\001\040\006\003\125\035
\040\004\202\001\027\060\202\001\023\060\202\001\017\006\011\053
\006\001\004\001\201\223\150\004\060\202\001\000\060\045\006\010
\053\006\001\005\005\007\002\001\026\031\150\164\164\160\072\057
\057\167\167\167\056\141\156\143\145\162\164\056\143\157\155\057
\143\160\163\060\201\326\006\010\053\006\001\005\005\007\002\002
\060\201\311\060\015\026\006\101\116\103\105\122\124\060\003\002
\001\001\032\201\267\101\147\145\156\143\151\141\040\116\157\164
\141\162\151\141\154\040\144\145\040\103\145\162\164\151\146\151
\143\141\143\151\157\156\056\040\114\141\040\144\145\143\154\141
\162\141\143\151\157\156\040\144\145\040\160\162\141\143\164\151
\143\141\163\040\144\145\040\143\145\162\164\151\146\151\141\143
\151\157\156\040\161\165\145\040\162\151\147\145\040\145\154\040
\146\165\156\143\151\157\156\141\155\151\145\156\164\157\040\144
\145\040\154\141\040\160\162\145\163\145\156\164\145\040\141\165
\164\157\162\151\144\141\144\040\163\145\040\145\156\143\165\145
\156\164\162\141\040\144\151\163\160\157\156\151\142\154\145\040
\145\156\040\150\164\164\160\072\057\057\167\167\167\056\141\156
\143\145\162\164\056\143\157\155\057\143\160\163\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\206\060\034\006\003
\125\035\021\004\025\060\023\201\021\141\156\143\145\162\164\100
\141\156\143\145\162\164\056\143\157\155\060\037\006\003\125\035
\043\004\030\060\026\200\024\354\127\237\310\166\042\157\314\072
\256\133\360\055\241\142\130\321\215\002\314\060\035\006\003\125
\035\016\004\026\004\024\354\127\237\310\166\042\157\314\072\256
\133\360\055\241\142\130\321\215\002\314\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\003\202\001\001\000\213\075
\337\334\066\054\177\047\234\374\265\130\123\161\012\022\135\020
\144\121\161\265\112\126\364\136\104\147\036\357\035\262\361\244
\121\074\147\154\054\145\226\172\241\022\243\257\013\010\067\016
\231\326\156\050\207\013\142\253\116\170\116\162\201\233\337\021

\117\211\140\310\121\246\033\006\011\161\163\174\067\267\034\070
\067\232\371\207\341\357\241\356\177\327\300\352\071\024\372\174
\157\013\371\206\312\346\305\167\151\240\237\215\051\243\167\156
\305\314\332\366\335\006\172\323\151\146\076\140\073\343\062\337
\256\360\033\236\052\235\314\204\337\032\020\107\355\245\126\226
\102\067\265\055\162\015\101\022\223\272\062\210\104\310\256\011
\304\275\200\355\375\140\017\162\262\266\144\366\143\040\062\160
\167\207\056\063\056\237\065\310\137\250\222\126\267\377\044\072
\054\135\362\046\005\150\031\362\121\147\317\337\122\011\351\202
\004\172\153\202\247\177\345\322\251\164\153\030\046\310\272\324
\325\036\245\113\073\046\301\235\042\341\373\022\275\325\142\106
\325\327\135\322\335\303\374\141\015\060\005\117\005\213
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "ANCERT Certificados CGN"
Issuer: CN=ANCERT Certificados CGN,O=Agencia Notarial de Certificacion S.L. Unipersonal - CIF B83395988,C=ES
Serial Number:44:74:ec:c8:6c:72:1e:58:dd:b8:2c:7e:f4:fc:95
Subject: CN=ANCERT Certificados CGN,O=Agencia Notarial de Certificacion S.L. Unipersonal - CIF B83395988,C=ES
Not Valid Before: Wed Feb 11 17:27:12 2004
Not Valid After: Sun Feb 11 17:27:12 2024
Fingerprint (MD5): 1c:4b:e2:c6:2d:b9:ac:31:14:f4:40:07:69:cb:1f:40
Fingerprint (SHA1): 11:c5:b5:f7:55:52:b0:11:66:9c:2e:97:17:de:6d:9b:ff:5f:a8:10
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANCERT Certificados CGN"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\021\305\265\367\125\122\260\021\146\234\056\227\027\336\155\233
\377\137\250\020
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\034\113\342\306\055\271\254\061\024\364\100\007\151\313\037\100
END
CKA_ISSUER MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\113\060\111\006\003\125\004\012\023\102\101\147\145\156\143\151
\141\040\116\157\164\141\162\151\141\154\040\144\145\040\103\145
\162\164\151\146\151\143\141\143\151\157\156\040\123\056\114\056
\040\125\156\151\160\145\162\163\157\156\141\154\040\055\040\103
\111\106\040\102\070\063\063\071\065\071\070\070\061\040\060\036
\006\003\125\004\003\023\027\101\116\103\105\122\124\040\103\145

\162\164\151\146\151\143\141\144\157\163\040\103\107\116
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\017\104\164\354\310\154\162\036\130\335\270\054\176\364\374
\225
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "ANCERT Certificados Notariales"
Issuer: CN=ANCERT Certificados Notariales,O=Agencia Notarial de Certificacion S.L. Unipersonal - CIF B83395988,C=ES
Serial Number:f4:cf:89:ea:dd:a4:c6:3e:91:ad:48:0e:2d:22:36:84
Subject: CN=ANCERT Certificados Notariales,O=Agencia Notarial de Certificacion S.L. Unipersonal - CIF B83395988,C=ES
Not Valid Before: Wed Feb 11 15:58:30 2004
Not Valid After: Sun Feb 11 15:58:26 2024
Fingerprint (MD5): 45:f7:50:11:4e:c5:ad:bd:53:68:86:63:ec:7b:6a:e1
Fingerprint (SHA1): c0:9a:b0:c8:ad:71:14:71:4e:d5:e2:1a:5a:27:6a:dc:d5:e7:ef:cb
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANCERT Certificados Notariales"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\203\061\013\060\011\006\003\125\004\006\023\002\105\123
\061\113\060\111\006\003\125\004\012\023\102\101\147\145\156\143
\151\141\040\116\157\164\141\162\151\141\154\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\156\040\123\056\114
\056\040\125\156\151\160\145\162\163\157\156\141\154\040\055\040
\103\111\106\040\102\070\063\063\071\065\071\070\070\061\047\060
\045\006\003\125\004\003\023\036\101\116\103\105\122\124\040\103
\145\162\164\151\146\151\143\141\144\157\163\040\116\157\164\141
\162\151\141\154\145\163
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\203\061\013\060\011\006\003\125\004\006\023\002\105\123
\061\113\060\111\006\003\125\004\012\023\102\101\147\145\156\143
\151\141\040\116\157\164\141\162\151\141\154\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\156\040\123\056\114
\056\040\125\156\151\160\145\162\163\157\156\141\154\040\055\040
\103\111\106\040\102\070\063\063\071\065\071\070\070\061\047\060
\045\006\003\125\004\003\023\036\101\116\103\105\122\124\040\103

\145\162\164\151\146\151\143\141\144\157\163\040\116\157\164\141
\162\151\141\154\145\163
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\364\317\211\352\335\244\306\076\221\255\110\016\055
\042\066\204
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\074\060\202\004\044\240\003\002\001\002\002\021\000
\364\317\211\352\335\244\306\076\221\255\110\016\055\042\066\204
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\201\203\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\113\060\111\006\003\125\004\012\023\102\101\147\145\156\143\151
\141\040\116\157\164\141\162\151\141\154\040\144\145\040\103\145
\162\164\151\146\151\143\141\143\151\157\156\040\123\056\114\056
\040\125\156\151\160\145\162\163\157\156\141\154\040\055\040\103
\111\106\040\102\070\063\063\071\065\071\070\070\061\047\060\045
\006\003\125\004\003\023\036\101\116\103\105\122\124\040\103\145
\162\164\151\146\151\143\141\144\157\163\040\116\157\164\141\162
\151\141\154\145\163\060\036\027\015\060\064\060\062\061\061\061
\065\065\070\063\060\132\027\015\062\064\060\062\061\061\061\065
\065\070\062\066\132\060\201\203\061\013\060\011\006\003\125\004
\006\023\002\105\123\061\113\060\111\006\003\125\004\012\023\102
\101\147\145\156\143\151\141\040\116\157\164\141\162\151\141\154
\040\144\145\040\103\145\162\164\151\146\151\143\141\143\151\157
\156\040\123\056\114\056\040\125\156\151\160\145\162\163\157\156
\141\154\040\055\040\103\111\106\040\102\070\063\063\071\065\071
\070\070\061\047\060\045\006\003\125\004\003\023\036\101\116\103
\105\122\124\040\103\145\162\164\151\146\151\143\141\144\157\163
\040\116\157\164\141\162\151\141\154\145\163\060\202\001\042\060
\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202
\001\017\000\060\202\001\012\002\202\001\001\000\360\221\017\320
\147\055\051\262\143\115\037\065\171\366\145\153\271\363\363\265
\130\223\047\144\117\247\325\133\202\005\162\233\177\035\256\010
\322\214\320\321\311\140\260\231\031\065\326\031\306\000\071\151
\175\042\357\164\042\203\264\176\352\020\213\076\063\034\341\335
\144\066\051\363\122\112\156\101\303\276\121\014\037\143\270\277
\215\251\077\061\061\073\273\361\066\104\074\047\145\024\171\165
\346\020\244\074\130\033\313\123\142\022\365\207\132\106\242\171
\243\140\343\026\250\336\204\246\372\345\314\304\020\062\366\102
\332\107\115\030\075\346\172\017\053\016\143\377\147\175\103\325
\164\026\220\064\264\017\316\046\163\041\301\112\332\144\344\117
\343\043\265\331\366\253\267\112\177\226\341\313\107\375\006\103
\321\224\064\151\012\376\075\350\146\252\046\014\325\143\071\006
\160\223\255\174\263\344\107\301\073\107\216\151\227\014\221\240
\114\007\217\311\200\114\256\160\223\150\217\241\303\042\302\361
\165\233\050\175\222\222\125\072\250\131\031\354\022\061\034\357
\235\027\334\271\100\011\133\364\055\023\046\163\002\003\001\000

\001\243\202\001\247\060\202\001\243\060\034\006\003\125\035\021
\004\025\060\023\201\021\141\156\143\145\162\164\100\141\156\143
\145\162\164\056\143\157\155\060\037\006\003\125\035\043\004\030
\060\026\200\024\204\367\372\162\136\210\144\146\035\050\214\260
\167\275\014\152\237\114\115\142\060\017\006\003\125\035\023\001
\001\377\004\005\060\003\001\001\377\060\202\001\040\006\003\125
\035\040\004\202\001\027\060\202\001\023\060\202\001\017\006\011
\053\006\001\004\001\201\223\150\001\060\202\001\000\060\045\006
\010\053\006\001\005\005\007\002\001\026\031\150\164\164\160\072
\057\057\167\167\167\056\141\156\143\145\162\164\056\143\157\155
\057\143\160\163\060\201\326\006\010\053\006\001\005\005\007\002
\002\060\201\311\060\015\026\006\101\116\103\105\122\124\060\003
\002\001\001\032\201\267\101\147\145\156\143\151\141\040\116\157
\164\141\162\151\141\154\040\144\145\040\103\145\162\164\151\146
\151\143\141\143\151\157\156\056\040\114\141\040\144\145\143\154
\141\162\141\143\151\157\156\040\144\145\040\160\162\141\143\164
\151\143\141\163\040\144\145\040\143\145\162\164\151\146\151\141
\143\151\157\156\040\161\165\145\040\162\151\147\145\040\145\154
\040\146\165\156\143\151\157\156\141\155\151\145\156\164\157\040
\144\145\040\154\141\040\160\162\145\163\145\156\164\145\040\141
\165\164\157\162\151\144\141\144\040\163\145\040\145\156\143\165
\145\156\164\162\141\040\144\151\163\160\157\156\151\142\154\145
\040\145\156\040\150\164\164\160\072\057\057\167\167\167\056\141
\156\143\145\162\164\056\143\157\155\057\143\160\163\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\206\060\035\006
\003\125\035\016\004\026\004\024\204\367\372\162\136\210\144\146
\035\050\214\260\167\275\014\152\237\114\115\142\060\015\006\011
\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000
\057\370\345\330\063\245\302\224\156\136\300\361\356\241\114\012
\255\206\017\300\063\335\236\322\331\233\356\305\053\205\051\166
\254\245\022\123\223\035\252\007\354\351\071\144\013\150\360\165
\044\351\321\206\214\234\123\152\353\025\241\011\267\031\007\271
\235\217\002\262\033\111\160\302\143\164\335\013\252\376\007\306
\067\126\306\203\376\300\117\034\314\070\252\375\356\125\230\211
\134\302\123\255\040\207\272\026\144\122\141\354\301\237\273\324
\142\321\052\310\135\360\053\370\332\022\316\043\313\261\314\301
\322\012\275\374\300\200\116\125\111\372\211\330\144\243\112\312
\356\213\327\345\355\222\373\140\342\342\052\317\055\050\076\246
\377\200\234\145\314\022\236\245\034\164\131\220\245\207\177\147
\025\200\020\300\241\321\250\060\354\241\002\221\212\132\323\043
\027\223\132\107\041\171\352\063\172\017\177\070\065\232\312\126
\270\277\144\272\247\260\265\121\035\026\236\216\211\175\070\072
\313\204\115\007\230\330\345\341\214\005\152\245\067\014\326\171
\051\076\361\102\304\266\367\352\031\240\141\340\002\116\277\022
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "ANCERT Certificados Notariales"
Issuer: CN=ANCERT Certificados Notariales,O=Agencia Notarial de Certificacion S.L. Unipersonal - CIF B83395988,C=ES
Serial Number:f4:cf:89:ea:dd:a4:c6:3e:91:ad:48:0e:2d:22:36:84
Subject: CN=ANCERT Certificados Notariales,O=Agencia Notarial de Certificacion S.L. Unipersonal - CIF B83395988,C=ES
Not Valid Before: Wed Feb 11 15:58:30 2004
Not Valid After: Sun Feb 11 15:58:26 2024
Fingerprint (MD5): 45:f7:50:11:4e:c5:ad:bd:53:68:86:63:ec:7b:6a:e1
Fingerprint (SHA1): c0:9a:b0:c8:ad:71:14:71:4e:d5:e2:1a:5a:27:6a:dc:d5:e7:ef:cb
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANCERT Certificados Notariales"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\300\232\260\310\255\161\024\161\116\325\342\032\132\047\152\334
\325\347\357\313
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\105\367\120\021\116\305\255\275\123\150\206\143\354\173\152\341
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\203\061\013\060\011\006\003\125\004\006\023\002\105\123
\061\113\060\111\006\003\125\004\012\023\102\101\147\145\156\143
\151\141\040\116\157\164\141\162\151\141\154\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\156\040\123\056\114
\056\040\125\156\151\160\145\162\163\157\156\141\154\040\055\040
\103\111\106\040\102\070\063\063\071\065\071\070\070\061\047\060
\045\006\003\125\004\003\023\036\101\116\103\105\122\124\040\103
\145\162\164\151\146\151\143\141\144\157\163\040\116\157\164\141
\162\151\141\154\145\163
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\364\317\211\352\335\244\306\076\221\255\110\016\055
\042\066\204
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "ANCERT Corporaciones de Derecho Publico"
Issuer: CN=ANCERT Corporaciones de Derecho Publico,O=Agencia Notarial de Certificacion S.L. Unipersonal - CIF B83395988,C=ES

Serial Number:3f:b2:e5:f2:d1:7c:8b:18:64:56:62:a9:39:81:7f:a7
Subject: CN=ANCERT Corporaciones de Derecho Publico,O=Agencia Notarial de Certificacion S.L. Unipersonal - CIF B83395988,C=ES
Not Valid Before: Wed Feb 11 17:22:45 2004
Not Valid After: Sun Feb 11 17:22:45 2024
Fingerprint (MD5): 20:6b:d6:8b:4a:8f:48:ab:e4:88:09:0d:e5:65:1a:50
Fingerprint (SHA1): 0c:fd:83:db:ae:44:b9:a0:c8:f6:76:f3:b5:70:65:0b:94:b6:9d:bf
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANCERT Corporaciones de Derecho Publico"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\214\061\013\060\011\006\003\125\004\006\023\002\105\123
\061\113\060\111\006\003\125\004\012\023\102\101\147\145\156\143
\151\141\040\116\157\164\141\162\151\141\154\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\156\040\123\056\114
\056\040\125\156\151\160\145\162\163\157\156\141\154\040\055\040
\103\111\106\040\102\070\063\063\071\065\071\070\070\061\060\060
\056\006\003\125\004\003\023\047\101\116\103\105\122\124\040\103
\157\162\160\157\162\141\143\151\157\156\145\163\040\144\145\040
\104\145\162\145\143\150\157\040\120\165\142\154\151\143\157
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\214\061\013\060\011\006\003\125\004\006\023\002\105\123
\061\113\060\111\006\003\125\004\012\023\102\101\147\145\156\143
\151\141\040\116\157\164\141\162\151\141\154\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\156\040\123\056\114
\056\040\125\156\151\160\145\162\163\157\156\141\154\040\055\040
\103\111\106\040\102\070\063\063\071\065\071\070\070\061\060\060
\056\006\003\125\004\003\023\047\101\116\103\105\122\124\040\103
\157\162\160\157\162\141\143\151\157\156\145\163\040\144\145\040
\104\145\162\145\143\150\157\040\120\165\142\154\151\143\157
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\077\262\345\362\321\174\213\030\144\126\142\251\071\201
\177\247
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\115\060\202\004\065\240\003\002\001\002\002\020\077
\262\345\362\321\174\213\030\144\126\142\251\071\201\177\247\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\201
\214\061\013\060\011\006\003\125\004\006\023\002\105\123\061\113
\060\111\006\003\125\004\012\023\102\101\147\145\156\143\151\141
\040\116\157\164\141\162\151\141\154\040\144\145\040\103\145\162
\164\151\146\151\143\141\143\151\157\156\040\123\056\114\056\040

\125\156\151\160\145\162\163\157\156\141\154\040\055\040\103\111
\106\040\102\070\063\063\071\065\071\070\070\061\060\060\056\006
\003\125\004\003\023\047\101\116\103\105\122\124\040\103\157\162
\160\157\162\141\143\151\157\156\145\163\040\144\145\040\104\145
\162\145\143\150\157\040\120\165\142\154\151\143\157\060\036\027
\015\060\064\060\062\061\061\061\067\062\062\064\065\132\027\015
\062\064\060\062\061\061\061\067\062\062\064\065\132\060\201\214
\061\013\060\011\006\003\125\004\006\023\002\105\123\061\113\060
\111\006\003\125\004\012\023\102\101\147\145\156\143\151\141\040
\116\157\164\141\162\151\141\154\040\144\145\040\103\145\162\164
\151\146\151\143\141\143\151\157\156\040\123\056\114\056\040\125
\156\151\160\145\162\163\157\156\141\154\040\055\040\103\111\106
\040\102\070\063\063\071\065\071\070\070\061\060\060\056\006\003
\125\004\003\023\047\101\116\103\105\122\124\040\103\157\162\160
\157\162\141\143\151\157\156\145\163\040\144\145\040\104\145\162
\145\143\150\157\040\120\165\142\154\151\143\157\060\202\001\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\001\017\000\060\202\001\012\002\202\001\001\000\242\041\225
\207\334\212\353\326\172\220\250\150\065\375\027\374\164\072\124
\020\222\065\223\102\165\056\330\076\313\251\224\241\276\152\067
\077\122\272\244\173\332\204\231\026\171\116\000\150\324\037\023
\351\106\073\074\112\235\203\072\330\041\357\302\362\100\105\341
\017\140\105\004\355\374\212\030\056\371\075\344\244\021\062\040
\216\072\267\356\226\100\025\032\231\351\041\235\162\254\315\037
\211\256\252\331\241\100\260\250\147\276\374\172\016\107\261\136
\274\370\060\152\216\067\237\005\102\354\054\303\246\033\213\253
\304\120\075\372\344\163\365\041\260\270\125\137\207\340\242\107
\070\057\100\137\117\154\253\224\044\126\343\114\217\176\220\351
\047\202\050\233\230\272\232\326\265\233\127\157\153\025\034\371
\273\160\051\175\074\367\023\250\321\161\361\260\376\210\105\161
\251\245\164\145\313\303\371\365\003\017\020\303\206\060\000\156
\301\300\046\242\210\376\041\307\062\075\273\306\173\033\267\233
\212\263\372\261\174\161\331\001\247\102\220\252\057\230\220\204
\252\336\306\255\354\074\121\112\005\035\001\121\233\002\003\001
\000\001\243\202\001\247\060\202\001\243\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\202\001\040\006
\003\125\035\040\004\202\001\027\060\202\001\023\060\202\001\017
\006\011\053\006\001\004\001\201\223\150\003\060\202\001\000\060
\045\006\010\053\006\001\005\005\007\002\001\026\031\150\164\164
\160\072\057\057\167\167\167\056\141\156\143\145\162\164\056\143
\157\155\057\143\160\163\060\201\326\006\010\053\006\001\005\005
\007\002\002\060\201\311\060\015\026\006\101\116\103\105\122\124
\060\003\002\001\001\032\201\267\101\147\145\156\143\151\141\040
\116\157\164\141\162\151\141\154\040\144\145\040\103\145\162\164
\151\146\151\143\141\143\151\157\156\056\040\114\141\040\144\145
\143\154\141\162\141\143\151\157\156\040\144\145\040\160\162\141
\143\164\151\143\141\163\040\144\145\040\143\145\162\164\151\146
\151\141\143\151\157\156\040\161\165\145\040\162\151\147\145\040

\145\154\040\146\165\156\143\151\157\156\141\155\151\145\156\164
\157\040\144\145\040\154\141\040\160\162\145\163\145\156\164\145
\040\141\165\164\157\162\151\144\141\144\040\163\145\040\145\156
\143\165\145\156\164\162\141\040\144\151\163\160\157\156\151\142
\154\145\040\145\156\040\150\164\164\160\072\057\057\167\167\167
\056\141\156\143\145\162\164\056\143\157\155\057\143\160\163\060
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060
\034\006\003\125\035\021\004\025\060\023\201\021\141\156\143\145
\162\164\100\141\156\143\145\162\164\056\143\157\155\060\037\006
\003\125\035\043\004\030\060\026\200\024\214\114\036\067\014\261
\237\322\254\104\013\072\276\002\317\364\215\055\146\225\060\035
\006\003\125\035\016\004\026\004\024\214\114\036\067\014\261\237
\322\254\104\013\072\276\002\317\364\215\055\146\225\060\015\006
\011\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001
\000\107\164\300\224\221\342\245\373\230\122\104\223\154\304\300
\035\340\171\333\151\144\055\141\256\244\167\221\065\265\267\312
\227\252\300\261\206\365\033\150\153\252\130\262\174\077\347\003
\047\370\101\161\274\246\322\040\251\200\225\242\107\255\155\106
\164\255\204\233\330\157\251\365\271\057\155\233\300\335\231\207
\355\131\262\165\201\245\211\205\052\314\320\205\201\115\363\257
\167\336\214\301\050\232\102\254\005\207\014\064\234\161\207\375
\354\001\024\037\276\303\056\360\337\372\044\246\135\037\074\361
\242\013\121\210\001\256\022\207\244\265\135\161\262\337\357\015
\174\040\343\177\023\013\115\246\300\167\314\077\326\017\161\307
\161\114\056\036\372\031\006\145\311\255\126\154\167\215\106\077
\275\060\203\036\340\056\125\270\170\043\164\074\130\012\143\072
\115\201\173\157\065\160\256\266\045\331\366\044\376\043\306\332
\032\210\257\250\024\223\163\340\300\133\260\061\151\032\366\051
\137\126\267\032\012\302\371\013\352\002\301\063\021\142\152\174
\103\350\352\032\253\220\000\205\340\105\017\175\216\272\120\325
\306
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "ANCERT Corporaciones de Derecho Publico"
Issuer: CN=ANCERT Corporaciones de Derecho Publico,O=Agencia Notarial de Certificacion S.L. Unipersonal - CIF B83395988,C=ES
Serial Number:3f:b2:e5:f2:d1:7c:8b:18:64:56:62:a9:39:81:7f:a7
Subject: CN=ANCERT Corporaciones de Derecho Publico,O=Agencia Notarial de Certificacion S.L. Unipersonal - CIF B83395988,C=ES
Not Valid Before: Wed Feb 11 17:22:45 2004
Not Valid After: Sun Feb 11 17:22:45 2024
Fingerprint (MD5): 20:6b:d6:8b:4a:8f:48:ab:e4:88:09:0d:e5:65:1a:50
Fingerprint (SHA1): 0c:fd:83:db:ae:44:b9:a0:c8:f6:76:f3:b5:70:65:0b:94:b6:9d:bf
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANCERT Corporaciones de Derecho Publico"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\014\375\203\333\256\104\271\240\310\366\166\363\265\160\145\013
\224\266\235\277
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\040\153\326\213\112\217\110\253\344\210\011\015\345\145\032\120
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\214\061\013\060\011\006\003\125\004\006\023\002\105\123
\061\113\060\111\006\003\125\004\012\023\102\101\147\145\156\143
\151\141\040\116\157\164\141\162\151\141\154\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\156\040\123\056\114
\056\040\125\156\151\160\145\162\163\157\156\141\154\040\055\040
\103\111\106\040\102\070\063\063\071\065\071\070\070\061\060\060
\056\006\003\125\004\003\023\047\101\116\103\105\122\124\040\103
\157\162\160\157\162\141\143\151\157\156\145\163\040\144\145\040
\104\145\162\145\143\150\157\040\120\165\142\154\151\143\157
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\077\262\345\362\321\174\213\030\144\126\142\251\071\201
\177\247
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "GLOBALTRUST"
Issuer: 1.2.840.113549.1.9.1=info@globaltrust.info,CN=GLOBALTRUST,OU=GLOBALTRUST Certification Service,O=ARGE DATEN - Austrian Society for Data Protection,ST=Austria,L=Vienna,C=AT
Serial Number: 0 (0x0)
Subject: 1.2.840.113549.1.9.1=info@globaltrust.info,CN=GLOBALTRUST,OU=GLOBALTRUST Certification Service,O=ARGE DATEN - Austrian Society for Data Protection,ST=Austria,L=Vienna,C=AT
Not Valid Before: Mon Aug 07 14:12:35 2006
Not Valid After: Thu Sep 18 14:12:35 2036
Fingerprint (MD5): df:0d:bc:7c:c8:36:b7:76:99:a1:ab:f0:d2:0f:89:6a
Fingerprint (SHA1): 34:2c:d9:d3:06:2d:a4:8c:34:69:65:29:7f:08:1e:bc:2e:f6:8f:dc
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GLOBALTRUST"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\201\324\061\013\060\011\006\003\125\004\006\023\002\101\124
\061\017\060\015\006\003\125\004\007\023\006\126\151\145\156\156
\141\061\020\060\016\006\003\125\004\010\023\007\101\165\163\164
\162\151\141\061\072\060\070\006\003\125\004\012\023\061\101\122
\107\105\040\104\101\124\105\116\040\055\040\101\165\163\164\162
\151\141\156\040\123\157\143\151\145\164\171\040\146\157\162\040
\104\141\164\141\040\120\162\157\164\145\143\164\151\157\156\061
\052\060\050\006\003\125\004\013\023\041\107\114\117\102\101\114
\124\122\125\123\124\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\123\145\162\166\151\143\145\061\024\060\022\006
\003\125\004\003\023\013\107\114\117\102\101\114\124\122\125\123
\124\061\044\060\042\006\011\052\206\110\206\367\015\001\011\001
\026\025\151\156\146\157\100\147\154\157\142\141\154\164\162\165
\163\164\056\151\156\146\157
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\324\061\013\060\011\006\003\125\004\006\023\002\101\124
\061\017\060\015\006\003\125\004\007\023\006\126\151\145\156\156
\141\061\020\060\016\006\003\125\004\010\023\007\101\165\163\164
\162\151\141\061\072\060\070\006\003\125\004\012\023\061\101\122
\107\105\040\104\101\124\105\116\040\055\040\101\165\163\164\162
\151\141\156\040\123\157\143\151\145\164\171\040\146\157\162\040
\104\141\164\141\040\120\162\157\164\145\143\164\151\157\156\061
\052\060\050\006\003\125\004\013\023\041\107\114\117\102\101\114
\124\122\125\123\124\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\123\145\162\166\151\143\145\061\024\060\022\006
\003\125\004\003\023\013\107\114\117\102\101\114\124\122\125\123
\124\061\044\060\042\006\011\052\206\110\206\367\015\001\011\001
\026\025\151\156\146\157\100\147\154\157\142\141\154\164\162\165
\163\164\056\151\156\146\157
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
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\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\201\324\061\013\060\011\006\003\125\004\006\023\002\101\124\061
\017\060\015\006\003\125\004\007\023\006\126\151\145\156\156\141
\061\020\060\016\006\003\125\004\010\023\007\101\165\163\164\162
\151\141\061\072\060\070\006\003\125\004\012\023\061\101\122\107
\105\040\104\101\124\105\116\040\055\040\101\165\163\164\162\151
\141\156\040\123\157\143\151\145\164\171\040\146\157\162\040\104
\141\164\141\040\120\162\157\164\145\143\164\151\157\156\061\052
\060\050\006\003\125\004\013\023\041\107\114\117\102\101\114\124
\122\125\123\124\040\103\145\162\164\151\146\151\143\141\164\151

\157\156\040\123\145\162\166\151\143\145\061\024\060\022\006\003
\125\004\003\023\013\107\114\117\102\101\114\124\122\125\123\124
\061\044\060\042\006\011\052\206\110\206\367\015\001\011\001\026
\025\151\156\146\157\100\147\154\157\142\141\154\164\162\165\163
\164\056\151\156\146\157\060\036\027\015\060\066\060\070\060\067
\061\064\061\062\063\065\132\027\015\063\066\060\071\061\070\061
\064\061\062\063\065\132\060\201\324\061\013\060\011\006\003\125
\004\006\023\002\101\124\061\017\060\015\006\003\125\004\007\023
\006\126\151\145\156\156\141\061\020\060\016\006\003\125\004\010
\023\007\101\165\163\164\162\151\141\061\072\060\070\006\003\125
\004\012\023\061\101\122\107\105\040\104\101\124\105\116\040\055
\040\101\165\163\164\162\151\141\156\040\123\157\143\151\145\164
\171\040\146\157\162\040\104\141\164\141\040\120\162\157\164\145
\143\164\151\157\156\061\052\060\050\006\003\125\004\013\023\041
\107\114\117\102\101\114\124\122\125\123\124\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\123\145\162\166\151\143
\145\061\024\060\022\006\003\125\004\003\023\013\107\114\117\102
\101\114\124\122\125\123\124\061\044\060\042\006\011\052\206\110
\206\367\015\001\011\001\026\025\151\156\146\157\100\147\154\157
\142\141\154\164\162\165\163\164\056\151\156\146\157\060\202\002
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000
\003\202\002\017\000\060\202\002\012\002\202\002\001\000\322\022
\107\354\137\230\350\015\206\025\111\304\335\354\236\361\154\315
\121\266\373\225\117\213\304\220\075\123\063\261\323\023\305\110
\342\245\277\365\364\003\204\017\234\170\161\366\222\227\361\133
\131\165\030\077\047\013\121\057\134\150\307\241\353\000\363\366
\225\075\151\303\176\302\254\304\012\066\162\172\133\246\320\367
\001\173\050\307\052\307\062\140\356\131\270\327\013\047\335\263
\105\005\053\173\144\247\163\134\350\223\002\227\150\354\374\204
\333\236\324\325\201\107\306\234\300\254\227\313\031\352\207\245
\012\243\270\165\044\347\120\047\015\253\026\371\126\135\261\201
\001\026\175\363\351\341\044\363\010\041\271\272\254\135\236\307
\110\171\177\152\312\337\071\167\004\155\033\156\072\315\177\316
\134\110\254\022\074\131\362\152\317\200\110\341\366\000\147\170
\040\340\375\265\144\173\027\227\263\345\047\335\105\153\233\141
\231\006\276\362\347\236\244\155\213\073\153\014\201\356\264\157
\241\276\032\022\101\113\236\255\016\371\106\264\132\321\003\000
\224\026\300\300\363\254\373\174\274\226\300\051\330\371\063\026
\211\243\016\035\225\331\003\324\041\014\335\126\010\111\145\310
\215\253\041\037\124\273\231\274\361\104\133\173\000\030\375\052
\031\130\322\005\311\331\051\066\045\376\167\356\153\131\124\117
\010\024\242\231\011\105\127\255\007\336\042\374\207\034\240\357
\240\171\335\012\175\300\177\065\350\014\146\115\343\265\152\026
\131\161\133\363\220\260\122\136\221\002\307\250\271\302\004\157
\236\117\264\000\055\354\010\354\256\100\156\360\051\047\042\071
\266\315\240\206\020\272\013\065\354\173\132\015\266\171\303\372
\307\255\301\373\353\355\053\204\015\352\336\371\353\232\131\063
\154\301\053\022\214\270\076\305\066\043\070\032\326\167\223\220

\326\167\165\152\130\031\027\241\025\216\156\166\016\243\163\341
\134\225\111\333\301\017\224\024\305\325\142\033\231\253\070\325
\147\156\322\251\031\341\132\072\207\152\110\077\221\226\343\306
\305\047\153\127\164\061\230\366\076\161\161\355\176\336\260\115
\054\363\356\217\333\173\150\327\020\104\051\255\354\253\120\131
\122\232\154\152\162\024\115\026\024\121\367\327\176\037\002\003
\001\000\001\243\202\001\327\060\202\001\323\060\035\006\003\125
\035\016\004\026\004\024\300\001\325\340\170\037\057\164\072\343
\353\300\041\122\246\004\356\046\313\244\060\202\001\001\006\003
\125\035\043\004\201\371\060\201\366\200\024\300\001\325\340\170
\037\057\164\072\343\353\300\041\122\246\004\356\046\313\244\241
\201\332\244\201\327\060\201\324\061\013\060\011\006\003\125\004
\006\023\002\101\124\061\017\060\015\006\003\125\004\007\023\006
\126\151\145\156\156\141\061\020\060\016\006\003\125\004\010\023
\007\101\165\163\164\162\151\141\061\072\060\070\006\003\125\004
\012\023\061\101\122\107\105\040\104\101\124\105\116\040\055\040
\101\165\163\164\162\151\141\156\040\123\157\143\151\145\164\171
\040\146\157\162\040\104\141\164\141\040\120\162\157\164\145\143
\164\151\157\156\061\052\060\050\006\003\125\004\013\023\041\107
\114\117\102\101\114\124\122\125\123\124\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\123\145\162\166\151\143\145
\061\024\060\022\006\003\125\004\003\023\013\107\114\117\102\101
\114\124\122\125\123\124\061\044\060\042\006\011\052\206\110\206
\367\015\001\011\001\026\025\151\156\146\157\100\147\154\157\142
\141\154\164\162\165\163\164\056\151\156\146\157\202\001\000\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\013\006\003\125\035\017\004\004\003\002\001\306\060\021\006
\003\125\035\040\004\012\060\010\060\006\006\004\125\035\040\000
\060\075\006\003\125\035\021\004\066\060\064\201\025\151\156\146
\157\100\147\154\157\142\141\154\164\162\165\163\164\056\151\156
\146\157\206\033\150\164\164\160\072\057\057\167\167\167\056\147
\154\157\142\141\154\164\162\165\163\164\056\151\156\146\157\060
\075\006\003\125\035\022\004\066\060\064\201\025\151\156\146\157
\100\147\154\157\142\141\154\164\162\165\163\164\056\151\156\146
\157\206\033\150\164\164\160\072\057\057\167\167\167\056\147\154
\157\142\141\154\164\162\165\163\164\056\151\156\146\157\060\015
\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202\002
\001\000\025\073\210\203\136\016\336\076\360\076\135\334\055\241
\112\372\050\245\326\007\245\044\110\316\236\171\350\171\232\134
\044\216\130\162\024\101\205\307\105\356\074\050\151\070\111\256
\042\215\273\214\005\155\256\145\273\207\271\176\166\073\050\143
\152\326\157\063\060\210\176\125\005\272\271\025\003\230\035\142
\322\316\300\017\156\034\232\064\356\344\257\037\142\321\354\264
\171\317\317\151\222\212\130\375\301\307\166\013\134\315\122\064
\110\153\345\013\177\311\062\022\337\230\012\026\331\063\126\026
\217\337\103\077\327\275\077\305\036\305\255\041\254\207\054\232
\344\034\037\205\003\254\213\307\267\063\142\111\301\370\252\053
\116\135\207\076\166\122\256\131\176\061\341\174\272\122\213\130

\220\327\200\106\013\064\066\336\357\021\311\134\042\106\302\074
\247\177\142\004\157\337\076\110\216\352\013\076\010\254\030\032
\122\326\361\366\324\142\057\003\271\232\326\074\123\177\125\046
\306\065\053\041\164\260\211\220\124\344\001\210\134\234\205\052
\232\145\136\113\127\362\200\034\354\147\064\232\106\334\002\166
\376\162\067\162\011\261\360\043\217\130\263\002\175\356\170\016
\271\075\163\022\055\125\237\027\143\257\256\330\256\163\266\307
\120\152\205\301\333\175\373\224\131\160\306\303\007\154\126\305
\260\007\374\116\175\223\035\271\047\300\260\225\325\347\174\005
\274\367\017\012\263\364\156\025\127\111\033\265\024\000\244\060
\053\132\364\126\130\277\166\064\242\075\376\001\046\360\335\270
\155\360\244\347\274\040\366\121\010\366\343\067\211\127\066\366
\367\057\376\315\270\144\275\352\327\246\320\377\170\357\176\341
\034\036\124\176\017\064\031\201\020\163\322\343\170\006\027\266
\322\121\373\065\170\166\332\167\203\067\101\076\055\106\250\176
\206\336\126\364\312\220\236\264\255\260\036\105\030\074\064\210
\002\207\350\360\066\221\353\362\347\265\322\004\271\056\270\135
\215\035\232\056\013\026\031\315\166\244\253\373\321\342\243\242
\334\204\175\173\352\120\352\365\262\004\073\211\122\072\262\303
\031\117\271\046\261\274\274\054\262\341\201\246\263\141\265\364
\105\140\057\054\165\305\310\055\210\113\046\273\160\356\073\177
\001\055
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "GLOBALTRUST"
Issuer: 1.2.840.113549.1.9.1=info@globaltrust.info,CN=GLOBALTRUST,OU=GLOBALTRUST Certification Service,O=ARGE DATEN - Austrian Society for Data Protection,ST=Austria,L=Vienna,C=AT
Serial Number: 0 (0x0)
Subject: 1.2.840.113549.1.9.1=info@globaltrust.info,CN=GLOBALTRUST,OU=GLOBALTRUST Certification Service,O=ARGE DATEN - Austrian Society for Data Protection,ST=Austria,L=Vienna,C=AT
Not Valid Before: Mon Aug 07 14:12:35 2006
Not Valid After: Thu Sep 18 14:12:35 2036
Fingerprint (MD5): df:0d:bc:7c:c8:36:b7:76:99:a1:ab:f0:d2:0f:89:6a
Fingerprint (SHA1): 34:2c:d9:d3:06:2d:a4:8c:34:69:65:29:7f:08:1e:bc:2e:f6:8f:dc
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GLOBALTRUST"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\064\054\331\323\006\055\244\214\064\151\145\051\177\010\036\274
\056\366\217\334
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL

\337\015\274\174\310\066\267\166\231\241\253\360\322\017\211\152
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\324\061\013\060\011\006\003\125\004\006\023\002\101\124
\061\017\060\015\006\003\125\004\007\023\006\126\151\145\156\156
\141\061\020\060\016\006\003\125\004\010\023\007\101\165\163\164
\162\151\141\061\072\060\070\006\003\125\004\012\023\061\101\122
\107\105\040\104\101\124\105\116\040\055\040\101\165\163\164\162
\151\141\156\040\123\157\143\151\145\164\171\040\146\157\162\040
\104\141\164\141\040\120\162\157\164\145\143\164\151\157\156\061
\052\060\050\006\003\125\004\013\023\041\107\114\117\102\101\114
\124\122\125\123\124\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\123\145\162\166\151\143\145\061\024\060\022\006
\003\125\004\003\023\013\107\114\117\102\101\114\124\122\125\123
\124\061\044\060\042\006\011\052\206\110\206\367\015\001\011\001
\026\025\151\156\146\157\100\147\154\157\142\141\154\164\162\165
\163\164\056\151\156\146\157
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Certipost E-Trust TOP Root CA"
Issuer: CN=Certipost E-Trust TOP Root CA,O=Certipost s.a./n.v.,C=BE
Serial Number:04:00:00:00:00:01:05:52:64:c1:95
Subject: CN=Certipost E-Trust TOP Root CA,O=Certipost s.a./n.v.,C=BE
Not Valid Before: Tue Jul 26 10:00:00 2005
Not Valid After: Sat Jul 26 10:00:00 2025
Fingerprint (MD5): b8:d3:12:03:4e:8c:0c:5a:47:c9:b6:c5:9e:5b:97:fd
Fingerprint (SHA1): 05:60:a2:c7:38:ff:98:d1:17:2a:94:fe:45:fb:8a:47:d6:65:37:1e
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certipost E-Trust TOP Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\123\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\034\060\032\006\003\125\004\012\023\023\103\145\162\164\151\160
\157\163\164\040\163\056\141\056\057\156\056\166\056\061\046\060
\044\006\003\125\004\003\023\035\103\145\162\164\151\160\157\163
\164\040\105\055\124\162\165\163\164\040\124\117\120\040\122\157
\157\164\040\103\101

END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\123\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\034\060\032\006\003\125\004\012\023\023\103\145\162\164\151\160
\157\163\164\040\163\056\141\056\057\156\056\166\056\061\046\060
\044\006\003\125\004\003\023\035\103\145\162\164\151\160\157\163
\164\040\105\055\124\162\165\163\164\040\124\117\120\040\122\157
\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\005\122\144\301\225
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\314\060\202\002\264\240\003\002\001\002\002\013\004
\000\000\000\000\001\005\122\144\301\225\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\060\123\061\013\060\011\006
\003\125\004\006\023\002\102\105\061\034\060\032\006\003\125\004
\012\023\023\103\145\162\164\151\160\157\163\164\040\163\056\141
\056\057\156\056\166\056\061\046\060\044\006\003\125\004\003\023
\035\103\145\162\164\151\160\157\163\164\040\105\055\124\162\165
\163\164\040\124\117\120\040\122\157\157\164\040\103\101\060\036
\027\015\060\065\060\067\062\066\061\060\060\060\060\060\132\027
\015\062\065\060\067\062\066\061\060\060\060\060\060\132\060\123
\061\013\060\011\006\003\125\004\006\023\002\102\105\061\034\060
\032\006\003\125\004\012\023\023\103\145\162\164\151\160\157\163
\164\040\163\056\141\056\057\156\056\166\056\061\046\060\044\006
\003\125\004\003\023\035\103\145\162\164\151\160\157\163\164\040
\105\055\124\162\165\163\164\040\124\117\120\040\122\157\157\164
\040\103\101\060\202\001\042\060\015\006\011\052\206\110\206\367
\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002
\202\001\001\000\245\324\113\100\326\373\361\065\030\073\242\260
\103\344\311\125\241\300\007\273\010\276\072\031\265\043\303\036
\235\263\010\112\364\103\113\351\301\031\140\220\337\204\327\130
\306\072\335\012\054\225\054\275\227\177\376\242\165\332\006\343
\253\233\154\321\270\317\104\206\301\122\140\267\334\076\073\260
\362\351\304\121\074\112\271\203\271\116\141\152\003\233\034\122
\200\072\120\264\040\262\333\323\262\306\124\177\313\140\233\310
\044\236\257\011\307\145\015\050\366\332\232\042\302\063\156\362
\363\045\324\244\371\226\365\157\252\074\153\334\101\060\345\346
\157\312\110\037\060\170\035\171\175\247\321\277\256\305\136\103
\371\306\057\203\166\233\064\112\244\050\130\053\250\210\205\104
\152\053\362\126\102\166\231\220\063\252\356\371\041\317\362\075
\371\167\204\313\335\051\204\304\324\212\052\244\071\134\076\371
\034\045\150\115\365\347\233\135\261\032\064\136\312\002\163\371
\010\304\014\155\136\335\022\052\345\173\305\066\170\122\235\062
\301\305\050\245\040\250\345\230\015\271\157\317\271\200\236\345
\276\271\233\375\002\003\001\000\001\243\201\240\060\201\235\060

\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\035\006\003\125\035\016\004\026\004\024\113\336\276\005\061
\056\363\065\310\330\312\247\126\305\224\015\264\132\145\305\060
\110\006\003\125\035\040\004\101\060\077\060\075\006\011\003\220
\016\007\001\000\001\002\000\060\060\060\056\006\010\053\006\001
\005\005\007\002\001\026\042\150\164\164\160\072\057\057\167\167
\167\056\145\055\164\162\165\163\164\056\142\145\057\103\120\123
\057\121\116\143\145\162\164\163\040\060\021\006\011\140\206\110
\001\206\370\102\001\001\004\004\003\002\000\007\060\015\006\011
\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000
\211\143\314\242\316\370\124\152\174\131\064\170\253\001\264\226
\055\052\041\156\100\055\137\320\226\042\231\203\005\034\345\044
\315\342\365\065\004\277\000\226\007\354\262\244\072\152\053\043
\076\311\017\312\023\035\270\044\226\011\046\330\074\052\201\316
\341\201\310\311\163\076\365\273\017\010\036\220\340\260\222\271
\322\072\227\120\340\006\216\344\202\060\074\140\040\267\244\356
\253\211\006\341\374\045\273\221\324\371\267\137\150\143\250\240
\150\206\153\247\354\222\313\042\372\120\133\023\130\047\256\053
\103\013\266\027\306\060\162\004\063\104\046\112\104\007\037\163
\240\203\101\051\340\222\006\274\325\001\352\376\274\257\161\353
\040\037\012\135\015\240\051\136\316\344\101\121\125\226\303\037
\264\061\245\243\363\123\352\377\302\234\206\162\317\066\114\126
\132\006\062\176\136\253\112\241\316\247\353\237\244\214\052\271
\044\213\270\265\363\006\115\246\312\175\231\373\366\125\352\256
\110\171\356\046\131\323\037\014\123\025\367\142\121\371\204\015
\226\154\136\261\010\346\131\010\053\046\051\012\301\203\100\163
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Certipost E-Trust TOP Root CA"
Issuer: CN=Certipost E-Trust TOP Root CA,O=Certipost s.a./n.v.,C=BE
Serial Number:04:00:00:00:00:01:05:52:64:c1:95
Subject: CN=Certipost E-Trust TOP Root CA,O=Certipost s.a./n.v.,C=BE
Not Valid Before: Tue Jul 26 10:00:00 2005
Not Valid After: Sat Jul 26 10:00:00 2025
Fingerprint (MD5): b8:d3:12:03:4e:8c:0c:5a:47:c9:b6:c5:9e:5b:97:fd
Fingerprint (SHA1): 05:60:a2:c7:38:ff:98:d1:17:2a:94:fe:45:fb:8a:47:d6:65:37:1e
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certipost E-Trust TOP Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\005\140\242\307\070\377\230\321\027\052\224\376\105\373\212\107

\326\145\067\036
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\270\323\022\003\116\214\014\132\107\311\266\305\236\133\227\375
END
CKA_ISSUER MULTILINE_OCTAL
\060\123\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\034\060\032\006\003\125\004\012\023\023\103\145\162\164\151\160
\157\163\164\040\163\056\141\056\057\156\056\166\056\061\046\060
\044\006\003\125\004\003\023\035\103\145\162\164\151\160\157\163
\164\040\105\055\124\162\165\163\164\040\124\117\120\040\122\157
\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\005\122\144\301\225
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Certipost E-Trust Primary Qualified CA"
Issuer: CN=Certipost E-Trust Primary Qualified CA,O=Certipost s.a./n.v.,C=BE
Serial Number:04:00:00:00:00:01:05:52:64:c4:25
Subject: CN=Certipost E-Trust Primary Qualified CA,O=Certipost s.a./n.v.,C=BE
Not Valid Before: Tue Jul 26 10:00:00 2005
Not Valid After: Sun Jul 26 10:00:00 2020
Fingerprint (MD5): 10:0e:ad:f3:5c:84:1d:8e:03:5f:2d:c9:39:37:f5:52
Fingerprint (SHA1): 74:2c:df:15:94:04:9c:bf:17:a2:04:6c:c6:39:bb:38:88:e0:2e:33
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certipost E-Trust Primary Qualified CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\134\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\034\060\032\006\003\125\004\012\023\023\103\145\162\164\151\160
\157\163\164\040\163\056\141\056\057\156\056\166\056\061\057\060
\055\006\003\125\004\003\023\046\103\145\162\164\151\160\157\163
\164\040\105\055\124\162\165\163\164\040\120\162\151\155\141\162
\171\040\121\165\141\154\151\146\151\145\144\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\134\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\034\060\032\006\003\125\004\012\023\023\103\145\162\164\151\160

\157\163\164\040\163\056\141\056\057\156\056\166\056\061\057\060
\055\006\003\125\004\003\023\046\103\145\162\164\151\160\157\163
\164\040\105\055\124\162\165\163\164\040\120\162\151\155\141\162
\171\040\121\165\141\154\151\146\151\145\144\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\005\122\144\304\045
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\336\060\202\002\306\240\003\002\001\002\002\013\004
\000\000\000\000\001\005\122\144\304\045\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\060\134\061\013\060\011\006
\003\125\004\006\023\002\102\105\061\034\060\032\006\003\125\004
\012\023\023\103\145\162\164\151\160\157\163\164\040\163\056\141
\056\057\156\056\166\056\061\057\060\055\006\003\125\004\003\023
\046\103\145\162\164\151\160\157\163\164\040\105\055\124\162\165
\163\164\040\120\162\151\155\141\162\171\040\121\165\141\154\151
\146\151\145\144\040\103\101\060\036\027\015\060\065\060\067\062
\066\061\060\060\060\060\060\132\027\015\062\060\060\067\062\066
\061\060\060\060\060\060\132\060\134\061\013\060\011\006\003\125
\004\006\023\002\102\105\061\034\060\032\006\003\125\004\012\023
\023\103\145\162\164\151\160\157\163\164\040\163\056\141\056\057
\156\056\166\056\061\057\060\055\006\003\125\004\003\023\046\103
\145\162\164\151\160\157\163\164\040\105\055\124\162\165\163\164
\040\120\162\151\155\141\162\171\040\121\165\141\154\151\146\151
\145\144\040\103\101\060\202\001\042\060\015\006\011\052\206\110
\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001
\012\002\202\001\001\000\256\040\322\170\333\232\240\162\234\004
\122\045\054\155\122\330\327\047\211\063\240\341\262\325\373\060
\165\153\055\177\034\147\216\016\347\037\022\337\027\171\030\273
\264\033\157\370\075\165\033\236\147\067\360\361\372\017\165\355
\206\235\003\004\241\050\160\055\074\262\153\240\163\121\343\065
\251\164\245\010\076\224\205\047\066\052\252\162\144\374\167\356
\166\224\034\162\353\277\062\307\167\003\152\045\202\011\005\257
\137\140\074\177\254\033\274\222\350\074\164\131\316\361\174\124
\055\070\256\226\360\254\157\241\063\014\041\132\001\272\043\040
\133\240\206\002\325\123\334\111\037\250\062\263\257\073\106\073
\266\357\237\071\263\070\013\347\172\212\366\050\371\247\157\120
\051\310\171\130\213\111\322\245\330\205\176\126\361\151\025\170
\104\021\065\327\245\124\076\253\146\045\322\333\343\030\361\056
\053\342\161\043\011\067\144\103\102\164\062\226\167\336\227\242
\351\226\206\234\045\104\011\324\001\235\121\176\063\267\011\104
\345\200\227\015\144\133\167\030\227\245\113\251\236\020\235\207
\372\126\247\317\012\175\002\003\001\000\001\243\201\240\060\201
\235\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\006\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\035\006\003\125\035\016\004\026\004\024\360\170\371
\007\167\020\273\334\036\241\256\171\373\060\020\333\306\064\370

\027\060\110\006\003\125\035\040\004\101\060\077\060\075\006\011
\003\220\016\007\001\000\001\002\000\060\060\060\056\006\010\053
\006\001\005\005\007\002\001\026\042\150\164\164\160\072\057\057
\167\167\167\056\145\055\164\162\165\163\164\056\142\145\057\103
\120\123\057\121\116\143\145\162\164\163\040\060\021\006\011\140
\206\110\001\206\370\102\001\001\004\004\003\002\000\007\060\015
\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202\001
\001\000\154\341\330\137\164\130\351\160\111\326\312\015\054\130
\332\312\144\266\121\117\303\006\144\001\351\212\163\035\236\317
\106\170\277\073\205\206\342\075\112\030\224\052\201\167\157\202
\370\157\364\356\042\374\235\030\041\162\140\273\030\200\202\225
\373\371\367\225\044\201\146\301\265\303\265\322\266\166\213\073
\201\134\270\241\016\053\001\024\213\200\011\100\356\370\140\114
\031\344\027\315\047\001\263\143\022\005\244\010\311\264\277\236
\120\116\265\336\017\222\063\146\165\320\075\347\043\174\352\045
\161\174\376\076\056\066\171\241\345\051\120\043\065\005\225\170
\273\237\171\144\334\127\110\047\054\342\134\063\315\302\273\176
\150\167\247\057\243\111\027\162\341\000\204\153\175\172\257\071
\013\054\325\330\127\144\062\154\204\012\152\166\072\323\254\315
\235\261\347\067\334\354\014\057\305\127\140\337\210\365\103\261
\001\144\046\264\047\202\020\262\243\120\357\227\346\177\277\221
\207\263\333\220\251\052\342\172\064\154\163\111\364\350\215\056
\153\212\335\241\212\177\143\320\277\130\036\257\314\077\222\120
\055\321
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Certipost E-Trust Primary Qualified CA"
Issuer: CN=Certipost E-Trust Primary Qualified CA,O=Certipost s.a./n.v.,C=BE
Serial Number:04:00:00:00:00:01:05:52:64:c4:25
Subject: CN=Certipost E-Trust Primary Qualified CA,O=Certipost s.a./n.v.,C=BE
Not Valid Before: Tue Jul 26 10:00:00 2005
Not Valid After: Sun Jul 26 10:00:00 2020
Fingerprint (MD5): 10:0e:ad:f3:5c:84:1d:8e:03:5f:2d:c9:39:37:f5:52
Fingerprint (SHA1): 74:2c:df:15:94:04:9c:bf:17:a2:04:6c:c6:39:bb:38:88:e0:2e:33
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certipost E-Trust Primary Qualified CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\164\054\337\025\224\004\234\277\027\242\004\154\306\071\273\070
\210\340\056\063
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL

\020\016\255\363\134\204\035\216\003\137\055\311\071\067\365\122
END
CKA_ISSUER MULTILINE_OCTAL
\060\134\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\034\060\032\006\003\125\004\012\023\023\103\145\162\164\151\160
\157\163\164\040\163\056\141\056\057\156\056\166\056\061\057\060
\055\006\003\125\004\003\023\046\103\145\162\164\151\160\157\163
\164\040\105\055\124\162\165\163\164\040\120\162\151\155\141\162
\171\040\121\165\141\154\151\146\151\145\144\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\005\122\144\304\045
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Certipost E-Trust Primary Normalised CA"
Issuer: CN=Certipost E-Trust Primary Normalised CA,O=Certipost s.a./n.v.,C=BE
Serial Number:04:00:00:00:00:01:05:52:64:c7:61
Subject: CN=Certipost E-Trust Primary Normalised CA,O=Certipost s.a./n.v.,C=BE
Not Valid Before: Tue Jul 26 10:00:00 2005
Not Valid After: Sun Jul 26 10:00:00 2020
Fingerprint (MD5): 21:ef:b8:50:40:39:3f:75:6f:27:fe:e3:ea:58:70:eb
Fingerprint (SHA1): a5:9c:9b:10:ec:73:57:51:5a:bb:66:0c:4d:94:f7:3b:9e:6e:92:72
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certipost E-Trust Primary Normalised CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\034\060\032\006\003\125\004\012\023\023\103\145\162\164\151\160
\157\163\164\040\163\056\141\056\057\156\056\166\056\061\060\060
\056\006\003\125\004\003\023\047\103\145\162\164\151\160\157\163
\164\040\105\055\124\162\165\163\164\040\120\162\151\155\141\162
\171\040\116\157\162\155\141\154\151\163\145\144\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\034\060\032\006\003\125\004\012\023\023\103\145\162\164\151\160
\157\163\164\040\163\056\141\056\057\156\056\166\056\061\060\060
\056\006\003\125\004\003\023\047\103\145\162\164\151\160\157\163
\164\040\105\055\124\162\165\163\164\040\120\162\151\155\141\162

\171\040\116\157\162\155\141\154\151\163\145\144\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\005\122\144\307\141
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\340\060\202\002\310\240\003\002\001\002\002\013\004
\000\000\000\000\001\005\122\144\307\141\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\060\135\061\013\060\011\006
\003\125\004\006\023\002\102\105\061\034\060\032\006\003\125\004
\012\023\023\103\145\162\164\151\160\157\163\164\040\163\056\141
\056\057\156\056\166\056\061\060\060\056\006\003\125\004\003\023
\047\103\145\162\164\151\160\157\163\164\040\105\055\124\162\165
\163\164\040\120\162\151\155\141\162\171\040\116\157\162\155\141
\154\151\163\145\144\040\103\101\060\036\027\015\060\065\060\067
\062\066\061\060\060\060\060\060\132\027\015\062\060\060\067\062
\066\061\060\060\060\060\060\132\060\135\061\013\060\011\006\003
\125\004\006\023\002\102\105\061\034\060\032\006\003\125\004\012
\023\023\103\145\162\164\151\160\157\163\164\040\163\056\141\056
\057\156\056\166\056\061\060\060\056\006\003\125\004\003\023\047
\103\145\162\164\151\160\157\163\164\040\105\055\124\162\165\163
\164\040\120\162\151\155\141\162\171\040\116\157\162\155\141\154
\151\163\145\144\040\103\101\060\202\001\042\060\015\006\011\052
\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060
\202\001\012\002\202\001\001\000\325\263\252\122\204\172\027\223
\042\017\270\004\030\312\311\362\202\052\254\025\013\247\120\161
\266\114\045\153\367\377\001\252\127\132\167\116\136\023\024\015
\125\362\036\361\205\315\205\327\202\034\014\332\011\053\275\375
\274\236\376\155\211\115\242\002\044\346\121\352\067\177\061\106
\132\173\232\166\263\056\240\135\137\344\370\231\012\007\276\356
\222\046\022\311\173\347\135\154\320\203\107\016\300\214\247\321
\171\127\300\013\031\234\233\236\103\305\116\221\045\316\210\053
\155\171\331\171\212\326\146\116\042\303\032\105\116\357\310\260
\142\046\116\046\124\120\237\014\157\263\153\314\174\237\177\336
\017\015\265\217\303\153\324\341\302\373\273\126\120\252\214\075
\217\000\213\074\374\110\027\152\322\132\363\165\155\145\201\275
\106\135\237\242\142\123\256\316\363\251\344\221\053\132\046\303
\171\146\321\246\123\146\065\034\006\161\261\356\231\016\304\373
\130\022\254\042\106\055\342\042\222\333\341\074\277\273\376\206
\347\223\064\163\317\170\151\323\313\336\371\014\262\150\332\311
\212\012\140\124\304\363\126\143\002\003\001\000\001\243\201\240
\060\201\235\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\006\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\110\006\003\125\035\040\004\101\060\077\060
\075\006\011\003\220\016\007\001\000\001\002\000\060\060\060\056
\006\010\053\006\001\005\005\007\002\001\026\042\150\164\164\160
\072\057\057\167\167\167\056\145\055\164\162\165\163\164\056\142
\145\057\103\120\123\057\121\116\143\145\162\164\163\040\060\035

\006\003\125\035\016\004\026\004\024\021\362\013\226\322\063\070
\201\127\130\023\375\100\244\021\157\116\231\372\147\060\021\006
\011\140\206\110\001\206\370\102\001\001\004\004\003\002\000\007
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003
\202\001\001\000\065\153\117\336\235\363\003\266\035\310\274\215
\347\136\152\236\251\351\355\242\053\227\352\257\321\341\106\323
\002\111\175\304\122\205\353\272\366\323\277\071\142\030\235\223
\111\275\170\003\277\323\136\025\335\357\047\034\341\273\105\001
\042\201\000\115\072\340\205\312\132\062\003\314\040\217\257\357
\301\333\250\372\363\334\327\262\261\017\003\201\011\051\340\161
\174\213\372\177\313\066\156\033\350\024\316\360\113\046\241\062
\051\117\314\264\365\207\110\014\023\374\307\235\257\253\324\223
\365\052\115\177\110\202\130\076\027\377\303\200\052\253\077\127
\125\270\071\054\146\020\144\046\155\214\153\326\335\240\203\032
\132\126\021\226\106\275\256\160\050\326\070\127\133\221\325\077
\115\351\254\263\303\044\112\226\145\134\064\320\036\324\277\010
\245\227\135\367\106\333\166\360\315\076\165\143\000\053\257\255
\256\206\336\137\246\231\124\015\205\043\245\374\272\355\033\122
\372\111\030\167\205\133\252\162\233\047\010\065\105\067\047\333
\227\311\372\213\075\310\320\235\336\132\357\135\243\026\266\230
\171\312\174\313
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Certipost E-Trust Primary Normalised CA"
Issuer: CN=Certipost E-Trust Primary Normalised CA,O=Certipost s.a./n.v.,C=BE
Serial Number:04:00:00:00:00:01:05:52:64:c7:61
Subject: CN=Certipost E-Trust Primary Normalised CA,O=Certipost s.a./n.v.,C=BE
Not Valid Before: Tue Jul 26 10:00:00 2005
Not Valid After: Sun Jul 26 10:00:00 2020
Fingerprint (MD5): 21:ef:b8:50:40:39:3f:75:6f:27:fe:e3:ea:58:70:eb
Fingerprint (SHA1): a5:9c:9b:10:ec:73:57:51:5a:bb:66:0c:4d:94:f7:3b:9e:6e:92:72
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certipost E-Trust Primary Normalised CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\245\234\233\020\354\163\127\121\132\273\146\014\115\224\367\073
\236\156\222\162
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\041\357\270\120\100\071\077\165\157\047\376\343\352\130\160\353
END
CKA_ISSUER MULTILINE_OCTAL

\060\135\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\034\060\032\006\003\125\004\012\023\023\103\145\162\164\151\160
\157\163\164\040\163\056\141\056\057\156\056\166\056\061\060\060
\056\006\003\125\004\003\023\047\103\145\162\164\151\160\157\163
\164\040\105\055\124\162\165\163\164\040\120\162\151\155\141\162
\171\040\116\157\162\155\141\154\151\163\145\144\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\005\122\144\307\141
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Cybertrust Global Root"
Issuer: CN=Cybertrust Global Root,O=Cybertrust\, Inc
Serial Number:04:00:00:00:00:01:0f:85:aa:2d:48
Subject: CN=Cybertrust Global Root,O=Cybertrust\, Inc
Not Valid Before: Fri Dec 15 08:00:00 2006
Not Valid After: Wed Dec 15 08:00:00 2021
Fingerprint (MD5): 72:e4:4a:87:e3:69:40:80:77:ea:bc:e3:f4:ff:f0:e1
Fingerprint (SHA1): 5f:43:e5:b1:bf:f8:78:8c:ac:1c:c7:ca:4a:9a:c6:22:2b:cc:34:c6
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Cybertrust Global Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\073\061\030\060\026\006\003\125\004\012\023\017\103\171\142
\145\162\164\162\165\163\164\054\040\111\156\143\061\037\060\035
\006\003\125\004\003\023\026\103\171\142\145\162\164\162\165\163
\164\040\107\154\157\142\141\154\040\122\157\157\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\073\061\030\060\026\006\003\125\004\012\023\017\103\171\142
\145\162\164\162\165\163\164\054\040\111\156\143\061\037\060\035
\006\003\125\004\003\023\026\103\171\142\145\162\164\162\165\163
\164\040\107\154\157\142\141\154\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\017\205\252\055\110
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\241\060\202\002\211\240\003\002\001\002\002\013\004

\000\000\000\000\001\017\205\252\055\110\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\060\073\061\030\060\026\006
\003\125\004\012\023\017\103\171\142\145\162\164\162\165\163\164
\054\040\111\156\143\061\037\060\035\006\003\125\004\003\023\026
\103\171\142\145\162\164\162\165\163\164\040\107\154\157\142\141
\154\040\122\157\157\164\060\036\027\015\060\066\061\062\061\065
\060\070\060\060\060\060\132\027\015\062\061\061\062\061\065\060
\070\060\060\060\060\132\060\073\061\030\060\026\006\003\125\004
\012\023\017\103\171\142\145\162\164\162\165\163\164\054\040\111
\156\143\061\037\060\035\006\003\125\004\003\023\026\103\171\142
\145\162\164\162\165\163\164\040\107\154\157\142\141\154\040\122
\157\157\164\060\202\001\042\060\015\006\011\052\206\110\206\367
\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002
\202\001\001\000\370\310\274\275\024\120\146\023\377\360\323\171
\354\043\362\267\032\307\216\205\361\022\163\246\031\252\020\333
\234\242\145\164\132\167\076\121\175\126\366\334\043\266\324\355
\137\130\261\067\115\325\111\016\156\365\152\207\326\322\214\322
\047\306\342\377\066\237\230\145\240\023\116\306\052\144\233\325
\220\022\317\024\006\364\073\343\324\050\276\350\016\370\253\116
\110\224\155\216\225\061\020\134\355\242\055\275\325\072\155\262
\034\273\140\300\106\113\001\365\111\256\176\106\212\320\164\215
\241\014\002\316\356\374\347\217\270\153\146\363\177\104\000\277
\146\045\024\053\335\020\060\035\007\226\077\115\366\153\270\217
\267\173\014\245\070\353\336\107\333\325\135\071\374\210\247\363
\327\052\164\361\350\132\242\073\237\120\272\246\214\105\065\302
\120\145\225\334\143\202\357\335\277\167\115\234\142\311\143\163
\026\320\051\017\111\251\110\360\263\252\267\154\305\247\060\071
\100\135\256\304\342\135\046\123\360\316\034\043\010\141\250\224
\031\272\004\142\100\354\037\070\160\167\022\006\161\247\060\030
\135\045\047\245\002\003\001\000\001\243\201\245\060\201\242\060
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\035\006\003\125\035\016\004\026\004\024\266\010\173\015\172
\314\254\040\114\206\126\062\136\317\253\156\205\055\160\127\060
\077\006\003\125\035\037\004\070\060\066\060\064\240\062\240\060
\206\056\150\164\164\160\072\057\057\167\167\167\062\056\160\165
\142\154\151\143\055\164\162\165\163\164\056\143\157\155\057\143
\162\154\057\143\164\057\143\164\162\157\157\164\056\143\162\154
\060\037\006\003\125\035\043\004\030\060\026\200\024\266\010\173
\015\172\314\254\040\114\206\126\062\136\317\253\156\205\055\160
\127\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000
\003\202\001\001\000\126\357\012\043\240\124\116\225\227\311\370
\211\332\105\301\324\243\000\045\364\037\023\253\267\243\205\130
\151\302\060\255\330\025\212\055\343\311\315\201\132\370\163\043
\132\247\174\005\363\375\042\073\016\321\006\304\333\066\114\163
\004\216\345\260\042\344\305\363\056\245\331\043\343\270\116\112
\040\247\156\002\044\237\042\140\147\173\213\035\162\011\305\061
\134\351\171\237\200\107\075\255\241\013\007\024\075\107\377\003

\151\032\014\013\104\347\143\045\247\177\262\311\270\166\204\355
\043\366\175\007\253\105\176\323\337\263\277\351\212\266\315\250
\242\147\053\122\325\267\145\360\071\114\143\240\221\171\223\122
\017\124\335\203\273\237\321\217\247\123\163\303\313\377\060\354
\174\004\270\330\104\037\223\137\161\011\042\267\156\076\352\034
\003\116\235\032\040\141\373\201\067\354\136\374\012\105\253\327
\347\027\125\320\240\352\140\233\246\366\343\214\133\051\302\006
\140\024\235\055\227\114\251\223\025\235\141\304\001\137\110\326
\130\275\126\061\022\116\021\310\041\340\263\021\221\145\333\264
\246\210\070\316\125
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Cybertrust Global Root"
Issuer: CN=Cybertrust Global Root,O=Cybertrust\, Inc
Serial Number:04:00:00:00:00:01:0f:85:aa:2d:48
Subject: CN=Cybertrust Global Root,O=Cybertrust\, Inc
Not Valid Before: Fri Dec 15 08:00:00 2006
Not Valid After: Wed Dec 15 08:00:00 2021
Fingerprint (MD5): 72:e4:4a:87:e3:69:40:80:77:ea:bc:e3:f4:ff:f0:e1
Fingerprint (SHA1): 5f:43:e5:b1:bf:f8:78:8c:ac:1c:c7:ca:4a:9a:c6:22:2b:cc:34:c6
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Cybertrust Global Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\137\103\345\261\277\370\170\214\254\034\307\312\112\232\306\042
\053\314\064\306
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\162\344\112\207\343\151\100\200\167\352\274\343\364\377\360\341
END
CKA_ISSUER MULTILINE_OCTAL
\060\073\061\030\060\026\006\003\125\004\012\023\017\103\171\142
\145\162\164\162\165\163\164\054\040\111\156\143\061\037\060\035
\006\003\125\004\003\023\026\103\171\142\145\162\164\162\165\163
\164\040\107\154\157\142\141\154\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\017\205\252\055\110
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "IGC/A"
# Issuer:
1.2.840.113549.1.9.1=igca@sgdn.pm.gouv.fr,CN=IGC/A,OU=DCSSI,O=PM/SGDN,L=Paris,ST=France,C=FR
# Serial Number:39:11:45:10:94
# Subject:
1.2.840.113549.1.9.1=igca@sgdn.pm.gouv.fr,CN=IGC/A,OU=DCSSI,O=PM/SGDN,L=Paris,ST=France,C=FR
# Not Valid Before: Fri Dec 13 14:29:23 2002
# Not Valid After: Sat Oct 17 14:29:22 2020
# Fingerprint (MD5): 0c:7f:dd:6a:f4:2a:b9:c8:9b:bd:20:7e:a9:db:5c:37
# Fingerprint (SHA1): 60:d6:89:74:b5:c2:65:9e:8a:0f:c1:88:7c:88:d2:46:69:1b:18:2c
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IGC/A"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\106\122
\061\017\060\015\006\003\125\004\010\023\006\106\162\141\156\143
\145\061\016\060\014\006\003\125\004\007\023\005\120\141\162\151
\163\061\020\060\016\006\003\125\004\012\023\007\120\115\057\123
\107\104\116\061\016\060\014\006\003\125\004\013\023\005\104\103
\123\123\111\061\016\060\014\006\003\125\004\003\023\005\111\107
\103\057\101\061\043\060\041\006\011\052\206\110\206\367\015\001
\011\001\026\024\151\147\143\141\100\163\147\144\156\056\160\155
\056\147\157\165\166\056\146\162
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\106\122
\061\017\060\015\006\003\125\004\010\023\006\106\162\141\156\143
\145\061\016\060\014\006\003\125\004\007\023\005\120\141\162\151
\163\061\020\060\016\006\003\125\004\012\023\007\120\115\057\123
\107\104\116\061\016\060\014\006\003\125\004\013\023\005\104\103
\123\123\111\061\016\060\014\006\003\125\004\003\023\005\111\107
\103\057\101\061\043\060\041\006\011\052\206\110\206\367\015\001
\011\001\026\024\151\147\143\141\100\163\147\144\156\056\160\155
\056\147\157\165\166\056\146\162
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\005\071\021\105\020\224
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\002\060\202\002\352\240\003\002\001\002\002\005\071
\021\105\020\224\060\015\006\011\052\206\110\206\367\015\001\001

\005\005\000\060\201\205\061\013\060\011\006\003\125\004\006\023
\002\106\122\061\017\060\015\006\003\125\004\010\023\006\106\162
\141\156\143\145\061\016\060\014\006\003\125\004\007\023\005\120
\141\162\151\163\061\020\060\016\006\003\125\004\012\023\007\120
\115\057\123\107\104\116\061\016\060\014\006\003\125\004\013\023
\005\104\103\123\123\111\061\016\060\014\006\003\125\004\003\023
\005\111\107\103\057\101\061\043\060\041\006\011\052\206\110\206
\367\015\001\011\001\026\024\151\147\143\141\100\163\147\144\156
\056\160\155\056\147\157\165\166\056\146\162\060\036\027\015\060
\062\061\062\061\063\061\064\062\071\062\063\132\027\015\062\060
\061\060\061\067\061\064\062\071\062\062\132\060\201\205\061\013
\060\011\006\003\125\004\006\023\002\106\122\061\017\060\015\006
\003\125\004\010\023\006\106\162\141\156\143\145\061\016\060\014
\006\003\125\004\007\023\005\120\141\162\151\163\061\020\060\016
\006\003\125\004\012\023\007\120\115\057\123\107\104\116\061\016
\060\014\006\003\125\004\013\023\005\104\103\123\123\111\061\016
\060\014\006\003\125\004\003\023\005\111\107\103\057\101\061\043
\060\041\006\011\052\206\110\206\367\015\001\011\001\026\024\151
\147\143\141\100\163\147\144\156\056\160\155\056\147\157\165\166
\056\146\162\060\202\001\042\060\015\006\011\052\206\110\206\367
\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002
\202\001\001\000\262\037\321\320\142\305\063\073\300\004\206\210
\263\334\370\210\367\375\337\103\337\172\215\232\111\134\366\116
\252\314\034\271\241\353\047\211\362\106\351\073\112\161\325\035
\216\055\317\346\255\253\143\120\307\124\013\156\022\311\220\066
\306\330\057\332\221\252\150\305\162\376\027\012\262\027\176\171
\265\062\210\160\312\160\300\226\112\216\344\125\315\035\047\224
\277\316\162\052\354\134\371\163\040\376\275\367\056\211\147\270
\273\107\163\022\367\321\065\151\072\362\012\271\256\377\106\102
\106\242\277\241\205\032\371\277\344\377\111\205\367\243\160\206
\062\034\135\237\140\367\251\255\245\377\317\321\064\371\175\133
\027\306\334\326\016\050\153\302\335\361\365\063\150\235\116\374
\207\174\066\022\326\243\200\350\103\015\125\141\224\352\144\067
\107\352\167\312\320\262\130\005\303\135\176\261\250\106\220\061
\126\316\160\052\226\262\060\270\167\346\171\300\275\051\073\375
\224\167\114\275\040\315\101\045\340\056\307\033\273\356\244\004
\101\322\135\255\022\152\212\233\107\373\311\335\106\100\341\235
\074\063\320\265\002\003\001\000\001\243\167\060\165\060\017\006
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\013
\006\003\125\035\017\004\004\003\002\001\106\060\025\006\003\125
\035\040\004\016\060\014\060\012\006\010\052\201\172\001\171\001
\001\001\060\035\006\003\125\035\016\004\026\004\024\243\005\057
\030\140\120\302\211\012\335\053\041\117\377\216\116\250\060\061
\066\060\037\006\003\125\035\043\004\030\060\026\200\024\243\005
\057\030\140\120\302\211\012\335\053\041\117\377\216\116\250\060
\061\066\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\000\003\202\001\001\000\005\334\046\330\372\167\025\104\150\374
\057\146\072\164\340\135\344\051\377\006\007\023\204\112\253\317

\155\240\037\121\224\370\111\313\164\066\024\274\025\335\333\211
\057\335\217\240\135\174\365\022\353\237\236\070\244\107\314\263
\226\331\276\234\045\253\003\176\063\017\225\201\015\375\026\340
\210\276\067\360\154\135\320\061\233\062\053\135\027\145\223\230
\140\274\156\217\261\250\074\036\331\034\363\251\046\102\371\144
\035\302\347\222\366\364\036\132\252\031\122\135\257\350\242\367
\140\240\366\215\360\211\365\156\340\012\005\001\225\311\213\040
\012\272\132\374\232\054\074\275\303\267\311\135\170\045\005\077
\126\024\233\014\332\373\072\110\376\227\151\136\312\020\206\367
\116\226\004\010\115\354\260\276\135\334\073\216\117\301\375\232
\066\064\232\114\124\176\027\003\110\225\010\021\034\007\157\205
\010\176\135\115\304\235\333\373\256\316\262\321\263\270\203\154
\035\262\263\171\361\330\160\231\176\360\023\002\316\136\335\121
\323\337\066\201\241\033\170\057\161\263\361\131\114\106\030\050
\253\205\322\140\126\132
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Trust for "IGC/A"
# Issuer:
1.2.840.113549.1.9.1=igca@sgdn.pm.gouv.fr,CN=IGC/A,OU=DCSSI,O=PM/SGDN,L=Paris,ST=France,C=FR
# Serial Number:39:11:45:10:94
# Subject:
1.2.840.113549.1.9.1=igca@sgdn.pm.gouv.fr,CN=IGC/A,OU=DCSSI,O=PM/SGDN,L=Paris,ST=France,C=FR
# Not Valid Before: Fri Dec 13 14:29:23 2002
# Not Valid After: Sat Oct 17 14:29:22 2020
# Fingerprint (MD5): 0c:7f:dd:6a:f4:2a:b9:c8:9b:bd:20:7e:a9:db:5c:37
# Fingerprint (SHA1): 60:d6:89:74:b5:c2:65:9e:8a:0f:c1:88:7c:88:d2:46:69:1b:18:2c
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IGC/A"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\140\326\211\164\265\302\145\236\212\017\301\210\174\210\322\106
\151\033\030\054
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\014\177\335\152\364\052\271\310\233\275\040\176\251\333\134\067
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\106\122
\061\017\060\015\006\003\125\004\010\023\006\106\162\141\156\143
\145\061\016\060\014\006\003\125\004\007\023\005\120\141\162\151
\163\061\020\060\016\006\003\125\004\012\023\007\120\115\057\123

\107\104\116\061\016\060\014\006\003\125\004\013\023\005\104\103
\123\123\111\061\016\060\014\006\003\125\004\003\023\005\111\107
\103\057\101\061\043\060\041\006\011\052\206\110\206\367\015\001
\011\001\026\024\151\147\143\141\100\163\147\144\156\056\160\155
\056\147\157\165\166\056\146\162
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\005\071\021\105\020\224
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "S-TRUST Authentication and Encryption Root CA 2005:PN"
Issuer: CN=S-TRUST Authentication and Encryption Root CA 2005:PN,O=Deutscher Sparkassen Verlag GmbH,L=Stuttgart,ST=Baden-Wuerttemberg (BW),C=DE
Serial Number:37:19:18:e6:53:54:7c:1a:b5:b8:cb:59:5a:db:35:b7
Subject: CN=S-TRUST Authentication and Encryption Root CA 2005:PN,O=Deutscher Sparkassen Verlag GmbH,L=Stuttgart,ST=Baden-Wuerttemberg (BW),C=DE
Not Valid Before: Wed Jun 22 00:00:00 2005
Not Valid After: Fri Jun 21 23:59:59 2030
Fingerprint (MD5): 04:4b:fd:c9:6c:da:2a:32:85:7c:59:84:61:46:8a:64
Fingerprint (SHA1): be:b5:a9:95:74:6b:9e:df:73:8b:56:e6:df:43:7a:77:be:10:6b:81
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "S-TRUST Authentication and Encryption Root CA 2005:PN"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\256\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\040\060\036\006\003\125\004\010\023\027\102\141\144\145\156
\055\127\165\145\162\164\164\145\155\142\145\162\147\040\050\102
\127\051\061\022\060\020\006\003\125\004\007\023\011\123\164\165
\164\164\147\141\162\164\061\051\060\047\006\003\125\004\012\023
\040\104\145\165\164\163\143\150\145\162\040\123\160\141\162\153
\141\163\163\145\156\040\126\145\162\154\141\147\040\107\155\142
\110\061\076\060\074\006\003\125\004\003\023\065\123\055\124\122
\125\123\124\040\101\165\164\150\145\156\164\151\143\141\164\151
\157\156\040\141\156\144\040\105\156\143\162\171\160\164\151\157
\156\040\122\157\157\164\040\103\101\040\062\060\060\065\072\120
\116
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\256\061\013\060\011\006\003\125\004\006\023\002\104\105

\061\040\060\036\006\003\125\004\010\023\027\102\141\144\145\156
\055\127\165\145\162\164\164\145\155\142\145\162\147\040\050\102
\127\051\061\022\060\020\006\003\125\004\007\023\011\123\164\165
\164\164\147\141\162\164\061\051\060\047\006\003\125\004\012\023
\040\104\145\165\164\163\143\150\145\162\040\123\160\141\162\153
\141\163\163\145\156\040\126\145\162\154\141\147\040\107\155\142
\110\061\076\060\074\006\003\125\004\003\023\065\123\055\124\122
\125\123\124\040\101\165\164\150\145\156\164\151\143\141\164\151
\157\156\040\141\156\144\040\105\156\143\162\171\160\164\151\157
\156\040\122\157\157\164\040\103\101\040\062\060\060\065\072\120
\116
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\067\031\030\346\123\124\174\032\265\270\313\131\132\333
\065\267
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\173\060\202\003\143\240\003\002\001\002\002\020\067
\031\030\346\123\124\174\032\265\270\313\131\132\333\065\267\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\201
\256\061\013\060\011\006\003\125\004\006\023\002\104\105\061\040
\060\036\006\003\125\004\010\023\027\102\141\144\145\156\055\127
\165\145\162\164\164\145\155\142\145\162\147\040\050\102\127\051
\061\022\060\020\006\003\125\004\007\023\011\123\164\165\164\164
\147\141\162\164\061\051\060\047\006\003\125\004\012\023\040\104
\145\165\164\163\143\150\145\162\040\123\160\141\162\153\141\163
\163\145\156\040\126\145\162\154\141\147\040\107\155\142\110\061
\076\060\074\006\003\125\004\003\023\065\123\055\124\122\125\123
\124\040\101\165\164\150\145\156\164\151\143\141\164\151\157\156
\040\141\156\144\040\105\156\143\162\171\160\164\151\157\156\040
\122\157\157\164\040\103\101\040\062\060\060\065\072\120\116\060
\036\027\015\060\065\060\066\062\062\060\060\060\060\060\060\132
\027\015\063\060\060\066\062\061\062\063\065\071\065\071\132\060
\201\256\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\040\060\036\006\003\125\004\010\023\027\102\141\144\145\156\055
\127\165\145\162\164\164\145\155\142\145\162\147\040\050\102\127
\051\061\022\060\020\006\003\125\004\007\023\011\123\164\165\164
\164\147\141\162\164\061\051\060\047\006\003\125\004\012\023\040
\104\145\165\164\163\143\150\145\162\040\123\160\141\162\153\141
\163\163\145\156\040\126\145\162\154\141\147\040\107\155\142\110
\061\076\060\074\006\003\125\004\003\023\065\123\055\124\122\125
\123\124\040\101\165\164\150\145\156\164\151\143\141\164\151\157
\156\040\141\156\144\040\105\156\143\162\171\160\164\151\157\156
\040\122\157\157\164\040\103\101\040\062\060\060\065\072\120\116
\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001\001
\000\331\265\112\301\323\063\352\323\106\263\321\342\114\322\365
\266\203\320\157\325\030\351\223\257\047\216\023\315\265\045\066

\120\064\022\144\051\241\125\341\072\140\223\236\050\311\343\363
\233\341\004\260\043\277\225\212\216\133\033\101\177\132\303\350
\115\114\325\044\026\076\207\110\324\047\256\346\367\123\035\273
\014\000\357\076\141\161\255\277\072\172\130\037\224\075\134\201
\325\325\157\337\270\233\322\365\345\313\203\162\222\302\123\262
\202\002\353\255\255\137\026\055\222\123\166\361\211\266\054\365
\301\057\340\247\112\157\240\060\152\062\353\232\164\003\150\170
\023\235\312\057\233\013\035\276\317\165\015\046\227\233\307\365
\136\012\237\170\337\263\274\354\232\272\357\125\217\033\232\246
\007\143\051\027\131\142\011\052\171\007\167\245\340\321\027\151
\351\133\335\366\220\253\342\230\012\000\321\045\155\236\327\205
\207\057\222\361\321\166\203\117\013\072\131\067\050\057\063\247
\027\120\326\040\013\012\364\046\371\237\070\347\055\244\270\233
\211\215\255\255\311\152\175\211\027\273\366\177\200\203\172\346
\355\002\003\001\000\001\243\201\222\060\201\217\060\022\006\003
\125\035\023\001\001\377\004\010\060\006\001\001\377\002\001\000
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006
\060\051\006\003\125\035\021\004\042\060\040\244\036\060\034\061
\032\060\030\006\003\125\004\003\023\021\123\124\122\157\156\154
\151\156\145\061\055\062\060\064\070\055\065\060\035\006\003\125
\035\016\004\026\004\024\017\312\036\134\171\340\242\363\051\266
\322\205\263\013\112\265\145\354\153\122\060\037\006\003\125\035
\043\004\030\060\026\200\024\017\312\036\134\171\340\242\363\051
\266\322\205\263\013\112\265\145\354\153\122\060\015\006\011\052
\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000\257
\001\360\355\031\074\050\350\115\134\273\245\143\034\210\063\003
\247\000\207\244\037\040\253\326\034\343\006\037\227\176\124\275
\267\321\262\311\325\332\200\354\027\327\212\365\173\302\000\366
\351\021\157\204\240\132\045\061\342\211\371\244\000\077\061\150
\056\325\075\350\156\346\325\035\074\077\262\275\237\167\353\235
\323\214\272\300\327\266\115\354\123\234\017\004\156\352\065\147
\127\343\012\145\173\220\072\341\117\076\303\000\222\172\273\005
\211\163\214\313\246\115\300\373\366\002\326\260\007\243\003\302
\047\100\237\014\344\205\202\055\257\232\102\035\320\307\215\370
\100\356\235\006\127\034\331\242\330\200\024\376\341\143\055\062
\207\325\224\122\226\072\106\306\161\226\075\367\230\016\262\221
\252\217\332\364\116\044\000\071\125\350\255\027\271\323\064\053
\112\251\100\314\027\052\125\145\101\164\102\176\365\300\257\310
\223\255\362\030\133\075\211\014\333\107\071\044\370\340\114\362
\037\260\075\012\312\005\116\211\041\032\343\052\231\254\374\177
\241\361\017\033\037\075\236\004\203\335\226\331\035\072\224
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "S-TRUST Authentication and Encryption Root CA 2005:PN"

Issuer: CN=S-TRUST Authentication and Encryption Root CA 2005:PN,O=Deutscher Sparkassen Verlag GmbH,L=Stuttgart,ST=Baden-Wuerttemberg (BW),C=DE
Serial Number:37:19:18:e6:53:54:7c:1a:b5:b8:cb:59:5a:db:35:b7
Subject: CN=S-TRUST Authentication and Encryption Root CA 2005:PN,O=Deutscher Sparkassen Verlag GmbH,L=Stuttgart,ST=Baden-Wuerttemberg (BW),C=DE
Not Valid Before: Wed Jun 22 00:00:00 2005
Not Valid After: Fri Jun 21 23:59:59 2030
Fingerprint (MD5): 04:4b:fd:c9:6c:da:2a:32:85:7c:59:84:61:46:8a:64
Fingerprint (SHA1): be:b5:a9:95:74:6b:9e:df:73:8b:56:e6:df:43:7a:77:be:10:6b:81
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "S-TRUST Authentication and Encryption Root CA 2005:PN"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\276\265\251\225\164\153\236\337\163\213\126\346\337\103\172\167
\276\020\153\201
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\004\113\375\311\154\332\052\062\205\174\131\204\141\106\212\144
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\256\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\040\060\036\006\003\125\004\010\023\027\102\141\144\145\156
\055\127\165\145\162\164\164\145\155\142\145\162\147\040\050\102
\127\051\061\022\060\020\006\003\125\004\007\023\011\123\164\165
\164\164\147\141\162\164\061\051\060\047\006\003\125\004\012\023
\040\104\145\165\164\163\143\150\145\162\040\123\160\141\162\153
\141\163\163\145\156\040\126\145\162\154\141\147\040\107\155\142
\110\061\076\060\074\006\003\125\004\003\023\065\123\055\124\122
\125\123\124\040\101\165\164\150\145\156\164\151\143\141\164\151
\157\156\040\141\156\144\040\105\156\143\162\171\160\164\151\157
\156\040\122\157\157\164\040\103\101\040\062\060\060\065\072\120
\116
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\067\031\030\346\123\124\174\032\265\270\313\131\132\333
\065\267
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "TC TrustCenter Universal CA I"
Issuer: CN=TC TrustCenter Universal CA I,OU=TC TrustCenter Universal CA,O=TC TrustCenter GmbH,C=DE
Serial Number:1d:a2:00:01:00:02:ec:b7:60:80:78:8d:b6:06

Subject: CN=TC TrustCenter Universal CA I,OU=TC TrustCenter Universal CA,O=TC TrustCenter GmbH,C=DE
Not Valid Before: Wed Mar 22 15:54:28 2006
Not Valid After: Wed Dec 31 22:59:59 2025
Fingerprint (MD5): 45:e1:a5:72:c5:a9:36:64:40:9e:f5:e4:58:84:67:8c
Fingerprint (SHA1): 6b:2f:34:ad:89:58:be:62:fd:b0:6b:5c:ce:bb:9d:d9:4f:4e:39:f3
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TC TrustCenter Universal CA I"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\171\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\034\060\032\006\003\125\004\012\023\023\124\103\040\124\162\165
\163\164\103\145\156\164\145\162\040\107\155\142\110\061\044\060
\042\006\003\125\004\013\023\033\124\103\040\124\162\165\163\164
\103\145\156\164\145\162\040\125\156\151\166\145\162\163\141\154
\040\103\101\061\046\060\044\006\003\125\004\003\023\035\124\103
\040\124\162\165\163\164\103\145\156\164\145\162\040\125\156\151
\166\145\162\163\141\154\040\103\101\040\111
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\171\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\034\060\032\006\003\125\004\012\023\023\124\103\040\124\162\165
\163\164\103\145\156\164\145\162\040\107\155\142\110\061\044\060
\042\006\003\125\004\013\023\033\124\103\040\124\162\165\163\164
\103\145\156\164\145\162\040\125\156\151\166\145\162\163\141\154
\040\103\101\061\046\060\044\006\003\125\004\003\023\035\124\103
\040\124\162\165\163\164\103\145\156\164\145\162\040\125\156\151
\166\145\162\163\141\154\040\103\101\040\111
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\016\035\242\000\001\000\002\354\267\140\200\170\215\266\006
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\335\060\202\002\305\240\003\002\001\002\002\016\035
\242\000\001\000\002\354\267\140\200\170\215\266\006\060\015\006
\011\052\206\110\206\367\015\001\001\005\005\000\060\171\061\013
\060\011\006\003\125\004\006\023\002\104\105\061\034\060\032\006
\003\125\004\012\023\023\124\103\040\124\162\165\163\164\103\145
\156\164\145\162\040\107\155\142\110\061\044\060\042\006\003\125
\004\013\023\033\124\103\040\124\162\165\163\164\103\145\156\164
\145\162\040\125\156\151\166\145\162\163\141\154\040\103\101\061
\046\060\044\006\003\125\004\003\023\035\124\103\040\124\162\165
\163\164\103\145\156\164\145\162\040\125\156\151\166\145\162\163
\141\154\040\103\101\040\111\060\036\027\015\060\066\060\063\062

\062\061\065\065\064\062\070\132\027\015\062\065\061\062\063\061
\062\062\065\071\065\071\132\060\171\061\013\060\011\006\003\125
\004\006\023\002\104\105\061\034\060\032\006\003\125\004\012\023
\023\124\103\040\124\162\165\163\164\103\145\156\164\145\162\040
\107\155\142\110\061\044\060\042\006\003\125\004\013\023\033\124
\103\040\124\162\165\163\164\103\145\156\164\145\162\040\125\156
\151\166\145\162\163\141\154\040\103\101\061\046\060\044\006\003
\125\004\003\023\035\124\103\040\124\162\165\163\164\103\145\156
\164\145\162\040\125\156\151\166\145\162\163\141\154\040\103\101
\040\111\060\202\001\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202
\001\001\000\244\167\043\226\104\257\220\364\061\247\020\364\046
\207\234\363\070\331\017\136\336\317\101\350\061\255\306\164\221
\044\226\170\036\011\240\233\232\225\112\112\365\142\174\002\250
\312\254\373\132\004\166\071\336\137\361\371\263\277\363\003\130
\125\322\252\267\343\004\042\321\370\224\332\042\010\000\215\323
\174\046\135\314\167\171\347\054\170\071\250\046\163\016\242\135
\045\151\205\117\125\016\232\357\306\271\104\341\127\075\337\037
\124\042\345\157\145\252\063\204\072\363\316\172\276\125\227\256
\215\022\017\024\063\342\120\160\303\111\207\023\274\121\336\327
\230\022\132\357\072\203\063\222\006\165\213\222\174\022\150\173
\160\152\017\265\233\266\167\133\110\131\235\344\357\132\255\363
\301\236\324\327\105\116\312\126\064\041\274\076\027\133\157\167
\014\110\001\103\051\260\335\077\226\156\346\225\252\014\300\040
\266\375\076\066\047\234\343\134\317\116\201\334\031\273\221\220
\175\354\346\227\004\036\223\314\042\111\327\227\206\266\023\012
\074\103\043\167\176\360\334\346\315\044\037\073\203\233\064\072
\203\064\343\002\003\001\000\001\243\143\060\141\060\037\006\003
\125\035\043\004\030\060\026\200\024\222\244\165\054\244\236\276
\201\104\353\171\374\212\305\225\245\353\020\165\163\060\017\006
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060\035
\006\003\125\035\016\004\026\004\024\222\244\165\054\244\236\276
\201\104\353\171\374\212\305\225\245\353\020\165\163\060\015\006
\011\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001
\000\050\322\340\206\325\346\370\173\360\227\334\042\153\073\225
\024\126\017\021\060\245\232\117\072\260\072\340\006\313\145\365
\355\306\227\047\376\045\362\127\346\136\225\214\076\144\140\025
\132\177\057\015\001\305\261\140\375\105\065\317\360\262\277\006
\331\357\132\276\263\142\041\264\327\253\065\174\123\076\246\047
\361\241\055\332\032\043\235\314\335\354\074\055\236\047\064\135
\017\302\066\171\274\311\112\142\055\355\153\331\175\101\103\174
\266\252\312\355\141\261\067\202\025\011\032\212\026\060\330\354
\311\326\107\162\170\113\020\106\024\216\137\016\257\354\307\057
\253\020\327\266\361\156\354\206\262\302\350\015\222\163\334\242
\364\017\072\277\141\043\020\211\234\110\100\156\160\000\263\323
\272\067\104\130\021\172\002\152\210\360\067\064\360\031\351\254
\324\145\163\366\151\214\144\224\072\171\205\051\260\026\053\014

\202\077\006\234\307\375\020\053\236\017\054\266\236\343\025\277
\331\066\034\272\045\032\122\075\032\354\042\014\034\340\244\242
\075\360\350\071\317\201\300\173\355\135\037\157\305\320\013\327
\230
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "TC TrustCenter Universal CA I"
Issuer: CN=TC TrustCenter Universal CA I,OU=TC TrustCenter Universal CA,O=TC TrustCenter GmbH,C=DE
Serial Number:1d:a2:00:01:00:02:ec:b7:60:80:78:8d:b6:06
Subject: CN=TC TrustCenter Universal CA I,OU=TC TrustCenter Universal CA,O=TC TrustCenter GmbH,C=DE
Not Valid Before: Wed Mar 22 15:54:28 2006
Not Valid After: Wed Dec 31 22:59:59 2025
Fingerprint (MD5): 45:e1:a5:72:c5:a9:36:64:40:9e:f5:e4:58:84:67:8c
Fingerprint (SHA1): 6b:2f:34:ad:89:58:be:62:fd:b0:6b:5c:ce:bb:9d:d9:4f:4e:39:f3
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TC TrustCenter Universal CA I"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\153\057\064\255\211\130\276\142\375\260\153\134\316\273\235\331
\117\116\071\363
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\105\341\245\162\305\251\066\144\100\236\365\344\130\204\147\214
END
CKA_ISSUER MULTILINE_OCTAL
\060\171\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\034\060\032\006\003\125\004\012\023\023\124\103\040\124\162\165
\163\164\103\145\156\164\145\162\040\107\155\142\110\061\044\060
\042\006\003\125\004\013\023\033\124\103\040\124\162\165\163\164
\103\145\156\164\145\162\040\125\156\151\166\145\162\163\141\154
\040\103\101\061\046\060\044\006\003\125\004\003\023\035\124\103
\040\124\162\165\163\164\103\145\156\164\145\162\040\125\156\151
\166\145\162\163\141\154\040\103\101\040\111
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\016\035\242\000\001\000\002\354\267\140\200\170\215\266\006
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "TC TrustCenter Universal CA II"
Issuer: CN=TC TrustCenter Universal CA II,OU=TC TrustCenter Universal CA,O=TC TrustCenter GmbH,C=DE
Serial Number:19:33:00:01:00:02:28:1a:9a:04:bc:f2:55:45
Subject: CN=TC TrustCenter Universal CA II,OU=TC TrustCenter Universal CA,O=TC TrustCenter GmbH,C=DE
Not Valid Before: Wed Mar 22 15:58:34 2006
Not Valid After: Tue Dec 31 22:59:59 2030
Fingerprint (MD5): a2:08:e4:b3:3e:ef:de:08:4b:60:d0:bf:79:52:49:8d
Fingerprint (SHA1): 8c:c4:30:7b:c6:07:55:e7:b2:2d:d9:f7:fe:a2:45:93:6c:7c:f2:88
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TC TrustCenter Universal CA II"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\172\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\034\060\032\006\003\125\004\012\023\023\124\103\040\124\162\165
\163\164\103\145\156\164\145\162\040\107\155\142\110\061\044\060
\042\006\003\125\004\013\023\033\124\103\040\124\162\165\163\164
\103\145\156\164\145\162\040\125\156\151\166\145\162\163\141\154
\040\103\101\061\047\060\045\006\003\125\004\003\023\036\124\103
\040\124\162\165\163\164\103\145\156\164\145\162\040\125\156\151
\166\145\162\163\141\154\040\103\101\040\111\111
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\172\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\034\060\032\006\003\125\004\012\023\023\124\103\040\124\162\165
\163\164\103\145\156\164\145\162\040\107\155\142\110\061\044\060
\042\006\003\125\004\013\023\033\124\103\040\124\162\165\163\164
\103\145\156\164\145\162\040\125\156\151\166\145\162\163\141\154
\040\103\101\061\047\060\045\006\003\125\004\003\023\036\124\103
\040\124\162\165\163\164\103\145\156\164\145\162\040\125\156\151
\166\145\162\163\141\154\040\103\101\040\111\111
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\016\031\063\000\001\000\002\050\032\232\004\274\362\125\105
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\337\060\202\003\307\240\003\002\001\002\002\016\031
\063\000\001\000\002\050\032\232\004\274\362\125\105\060\015\006
\011\052\206\110\206\367\015\001\001\005\005\000\060\172\061\013
\060\011\006\003\125\004\006\023\002\104\105\061\034\060\032\006
\003\125\004\012\023\023\124\103\040\124\162\165\163\164\103\145
\156\164\145\162\040\107\155\142\110\061\044\060\042\006\003\125

\004\013\023\033\124\103\040\124\162\165\163\164\103\145\156\164
\145\162\040\125\156\151\166\145\162\163\141\154\040\103\101\061
\047\060\045\006\003\125\004\003\023\036\124\103\040\124\162\165
\163\164\103\145\156\164\145\162\040\125\156\151\166\145\162\163
\141\154\040\103\101\040\111\111\060\036\027\015\060\066\060\063
\062\062\061\065\065\070\063\064\132\027\015\063\060\061\062\063
\061\062\062\065\071\065\071\132\060\172\061\013\060\011\006\003
\125\004\006\023\002\104\105\061\034\060\032\006\003\125\004\012
\023\023\124\103\040\124\162\165\163\164\103\145\156\164\145\162
\040\107\155\142\110\061\044\060\042\006\003\125\004\013\023\033
\124\103\040\124\162\165\163\164\103\145\156\164\145\162\040\125
\156\151\166\145\162\163\141\154\040\103\101\061\047\060\045\006
\003\125\004\003\023\036\124\103\040\124\162\165\163\164\103\145
\156\164\145\162\040\125\156\151\166\145\162\163\141\154\040\103
\101\040\111\111\060\202\002\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012
\002\202\002\001\000\213\324\167\153\064\154\345\066\330\152\134
\136\070\356\374\325\035\171\003\073\173\203\142\104\202\116\210
\355\336\203\377\356\314\120\142\005\005\225\231\166\230\366\271
\362\137\330\006\221\222\302\366\055\146\027\037\375\123\003\350
\250\215\143\251\156\341\326\033\214\274\230\263\213\073\324\344
\056\312\175\205\111\046\133\171\270\032\213\100\236\177\273\311
\077\143\054\317\321\132\174\272\050\042\101\022\132\115\371\027
\167\374\205\375\302\111\340\052\030\177\351\240\054\234\371\104
\374\014\150\071\102\365\047\005\276\216\025\172\140\235\360\073
\307\074\346\076\026\274\257\166\336\152\267\242\341\253\106\105
\353\214\145\175\321\227\363\227\021\045\253\131\353\240\042\331
\202\335\230\355\176\342\372\240\141\012\112\062\336\054\027\367
\155\104\352\201\107\131\227\127\067\003\071\335\136\202\042\324
\063\270\372\046\011\266\274\071\210\057\121\025\116\233\303\073
\337\023\202\210\335\113\064\362\063\326\220\351\363\123\334\065
\174\300\303\331\174\170\263\315\160\077\215\152\340\243\201\110
\344\051\255\143\270\360\374\050\144\073\231\263\175\376\232\235
\210\366\231\042\010\221\107\026\211\065\170\135\167\241\317\277
\111\341\375\044\224\053\151\066\173\350\034\346\052\220\212\133
\325\073\064\131\102\334\155\317\273\017\101\034\125\315\365\015
\133\056\026\042\046\357\141\036\227\374\342\123\310\317\133\243
\307\251\361\272\016\206\022\313\023\312\025\307\354\344\066\215
\332\134\023\075\145\322\016\135\160\164\334\277\217\172\152\301
\056\017\323\306\136\017\053\131\154\314\141\154\376\300\141\116
\331\346\117\106\262\132\342\031\024\160\204\370\040\000\355\001
\247\227\176\303\275\022\134\222\043\027\240\245\035\105\027\025
\043\232\222\010\265\042\210\215\334\053\044\353\340\261\027\150
\323\257\141\275\331\205\170\366\215\272\170\312\067\215\143\276
\347\254\037\337\245\107\011\271\310\045\061\124\106\121\021\125
\015\211\134\215\332\322\030\055\163\362\270\325\047\365\110\042
\067\321\142\367\173\015\310\070\213\241\112\260\374\320\361\353
\267\206\143\347\340\016\163\177\375\162\121\265\351\175\342\125

\005\144\170\147\177\002\003\001\000\001\243\143\060\141\060\037
\006\003\125\035\043\004\030\060\026\200\024\315\327\220\241\156
\243\277\333\060\326\332\062\045\220\014\346\071\036\200\145\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\206
\060\035\006\003\125\035\016\004\026\004\024\315\327\220\241\156
\243\277\333\060\326\332\062\045\220\014\346\071\036\200\145\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202
\002\001\000\176\026\210\350\023\016\066\314\156\052\205\007\070
\306\126\211\172\343\107\041\146\114\120\010\061\132\121\320\374
\246\136\024\165\336\114\073\354\361\355\314\176\021\007\112\141
\356\352\263\216\072\244\063\306\355\212\102\146\117\361\074\173
\311\245\005\101\231\261\354\054\133\356\334\226\322\210\123\113
\170\064\271\156\346\273\017\305\172\246\174\016\030\337\157\017
\164\114\321\251\361\241\351\330\124\144\314\136\226\170\242\126
\032\301\163\262\025\306\127\005\337\332\367\110\044\212\216\177
\152\251\371\115\351\076\152\316\140\054\175\055\220\010\366\143
\217\025\320\055\234\214\377\361\375\374\014\026\120\126\024\373
\272\227\206\356\264\111\003\124\356\033\131\177\060\072\002\202
\206\041\256\376\360\025\362\337\116\203\346\231\305\272\065\367
\040\220\214\070\355\165\317\341\056\367\004\060\373\121\255\216
\202\044\100\312\175\051\135\325\331\367\145\144\374\252\237\164
\270\175\222\135\322\204\051\340\023\352\212\367\320\253\304\256
\357\025\305\302\211\362\173\266\073\111\230\141\363\116\162\221
\067\214\111\222\351\310\354\052\240\367\111\156\174\015\044\306
\153\154\362\070\057\312\160\005\345\177\337\306\053\053\200\200
\325\332\157\313\100\273\330\033\360\044\311\020\310\104\002\176
\056\323\230\252\242\015\361\053\320\332\372\216\034\377\124\350
\341\112\156\335\250\326\170\265\067\245\254\144\325\024\043\307
\016\245\353\341\011\070\327\300\174\140\245\135\230\217\214\002
\325\334\126\250\363\115\130\251\013\324\174\144\164\001\062\362
\337\017\112\212\251\002\242\242\035\204\167\302\361\314\227\275
\064\031\164\135\342\164\076\165\047\367\257\277\356\174\016\155
\124\210\246\126\342\046\255\061\022\074\036\101\171\155\027\352
\023\136\037\365\134\237\111\131\243\262\057\243\102\303\372\250
\176\277\245\237\110\311\140\142\142\012\337\275\105\336\343\102
\265\121\226\375\304\365\032\231\270\122\242\104\315\055\141\214
\025\217\201\325\135\242\324\220\075\214\156\100\141\303\131\135
\330\331\341\366\164\107\042\171\164\175\332\312\243\157\067\025
\066\360\054\032\161\074\021\166\337\135\032\076\124\143\170\153
\145\176\037
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "TC TrustCenter Universal CA II"

Issuer: CN=TC TrustCenter Universal CA II,OU=TC TrustCenter Universal CA,O=TC TrustCenter GmbH,C=DE
Serial Number:19:33:00:01:00:02:28:1a:9a:04:bc:f2:55:45
Subject: CN=TC TrustCenter Universal CA II,OU=TC TrustCenter Universal CA,O=TC TrustCenter GmbH,C=DE
Not Valid Before: Wed Mar 22 15:58:34 2006
Not Valid After: Tue Dec 31 22:59:59 2030
Fingerprint (MD5): a2:08:e4:b3:3e:ef:de:08:4b:60:d0:bf:79:52:49:8d
Fingerprint (SHA1): 8c:c4:30:7b:c6:07:55:e7:b2:2d:d9:f7:fe:a2:45:93:6c:7c:f2:88
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TC TrustCenter Universal CA II"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\214\304\060\173\306\007\125\347\262\055\331\367\376\242\105\223
\154\174\362\210
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\242\010\344\263\076\357\336\010\113\140\320\277\171\122\111\215
END
CKA_ISSUER MULTILINE_OCTAL
\060\172\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\034\060\032\006\003\125\004\012\023\023\124\103\040\124\162\165
\163\164\103\145\156\164\145\162\040\107\155\142\110\061\044\060
\042\006\003\125\004\013\023\033\124\103\040\124\162\165\163\164
\103\145\156\164\145\162\040\125\156\151\166\145\162\163\141\154
\040\103\101\061\047\060\045\006\003\125\004\003\023\036\124\103
\040\124\162\165\163\164\103\145\156\164\145\162\040\125\156\151
\166\145\162\163\141\154\040\103\101\040\111\111
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\016\031\063\000\001\000\002\050\032\232\004\274\362\125\105
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "TC TrustCenter Class 2 CA II"
Issuer: CN=TC TrustCenter Class 2 CA II,OU=TC TrustCenter Class 2 CA,O=TC TrustCenter GmbH,C=DE
Serial Number:2e:6a:00:01:00:02:1f:d7:52:21:2c:11:5c:3b
Subject: CN=TC TrustCenter Class 2 CA II,OU=TC TrustCenter Class 2 CA,O=TC TrustCenter GmbH,C=DE
Not Valid Before: Thu Jan 12 14:38:43 2006
Not Valid After: Wed Dec 31 22:59:59 2025
Fingerprint (MD5): ce:78:33:5c:59:78:01:6e:18:ea:b9:36:a0:b9:2e:23
Fingerprint (SHA1): ae:50:83:ed:7c:f4:5c:bc:8f:61:c6:21:fe:68:5d:79:42:21:15:6e
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TC TrustCenter Class 2 CA II"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\166\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\034\060\032\006\003\125\004\012\023\023\124\103\040\124\162\165
\163\164\103\145\156\164\145\162\040\107\155\142\110\061\042\060
\040\006\003\125\004\013\023\031\124\103\040\124\162\165\163\164
\103\145\156\164\145\162\040\103\154\141\163\163\040\062\040\103
\101\061\045\060\043\006\003\125\004\003\023\034\124\103\040\124
\162\165\163\164\103\145\156\164\145\162\040\103\154\141\163\163
\040\062\040\103\101\040\111\111
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\166\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\034\060\032\006\003\125\004\012\023\023\124\103\040\124\162\165
\163\164\103\145\156\164\145\162\040\107\155\142\110\061\042\060
\040\006\003\125\004\013\023\031\124\103\040\124\162\165\163\164
\103\145\156\164\145\162\040\103\154\141\163\163\040\062\040\103
\101\061\045\060\043\006\003\125\004\003\023\034\124\103\040\124
\162\165\163\164\103\145\156\164\145\162\040\103\154\141\163\163
\040\062\040\103\101\040\111\111
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\016\056\152\000\001\000\002\037\327\122\041\054\021\134\073
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\252\060\202\003\222\240\003\002\001\002\002\016\056
\152\000\001\000\002\037\327\122\041\054\021\134\073\060\015\006
\011\052\206\110\206\367\015\001\001\005\005\000\060\166\061\013
\060\011\006\003\125\004\006\023\002\104\105\061\034\060\032\006
\003\125\004\012\023\023\124\103\040\124\162\165\163\164\103\145
\156\164\145\162\040\107\155\142\110\061\042\060\040\006\003\125
\004\013\023\031\124\103\040\124\162\165\163\164\103\145\156\164
\145\162\040\103\154\141\163\163\040\062\040\103\101\061\045\060
\043\006\003\125\004\003\023\034\124\103\040\124\162\165\163\164
\103\145\156\164\145\162\040\103\154\141\163\163\040\062\040\103
\101\040\111\111\060\036\027\015\060\066\060\061\061\062\061\064
\063\070\064\063\132\027\015\062\065\061\062\063\061\062\062\065
\071\065\071\132\060\166\061\013\060\011\006\003\125\004\006\023
\002\104\105\061\034\060\032\006\003\125\004\012\023\023\124\103
\040\124\162\165\163\164\103\145\156\164\145\162\040\107\155\142
\110\061\042\060\040\006\003\125\004\013\023\031\124\103\040\124
\162\165\163\164\103\145\156\164\145\162\040\103\154\141\163\163
\040\062\040\103\101\061\045\060\043\006\003\125\004\003\023\034

\124\103\040\124\162\165\163\164\103\145\156\164\145\162\040\103
\154\141\163\163\040\062\040\103\101\040\111\111\060\202\001\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\001\017\000\060\202\001\012\002\202\001\001\000\253\200\207
\233\216\360\303\174\207\327\350\044\202\021\263\074\335\103\142
\356\370\303\105\332\350\341\240\137\321\052\262\352\223\150\337
\264\310\326\103\351\304\165\131\177\374\341\035\370\061\160\043
\033\210\236\047\271\173\375\072\322\311\251\351\024\057\220\276
\003\122\301\111\315\366\375\344\010\146\013\127\212\242\102\240
\270\325\177\151\134\220\062\262\227\015\312\112\334\106\076\002
\125\211\123\343\032\132\313\066\306\007\126\367\214\317\021\364
\114\273\060\160\004\225\245\366\071\214\375\163\201\010\175\211
\136\062\036\042\251\042\105\113\260\146\056\060\314\237\145\375
\374\313\201\251\361\340\073\257\243\206\321\211\352\304\105\171
\120\135\256\351\041\164\222\115\213\131\202\217\224\343\351\112
\361\347\111\260\024\343\365\142\313\325\162\275\037\271\322\237
\240\315\250\372\001\310\331\015\337\332\374\107\235\263\310\124
\337\111\112\361\041\251\376\030\116\356\110\324\031\273\357\175
\344\342\235\313\133\266\156\377\343\315\132\347\164\202\005\272
\200\045\070\313\344\151\236\257\101\252\032\204\365\002\003\001
\000\001\243\202\001\064\060\202\001\060\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003\125
\035\016\004\026\004\024\343\253\124\114\200\241\333\126\103\267
\221\112\313\363\202\172\023\134\010\253\060\201\355\006\003\125
\035\037\004\201\345\060\201\342\060\201\337\240\201\334\240\201
\331\206\065\150\164\164\160\072\057\057\167\167\167\056\164\162
\165\163\164\143\145\156\164\145\162\056\144\145\057\143\162\154
\057\166\062\057\164\143\137\143\154\141\163\163\137\062\137\143
\141\137\111\111\056\143\162\154\206\201\237\154\144\141\160\072
\057\057\167\167\167\056\164\162\165\163\164\143\145\156\164\145
\162\056\144\145\057\103\116\075\124\103\045\062\060\124\162\165
\163\164\103\145\156\164\145\162\045\062\060\103\154\141\163\163
\045\062\060\062\045\062\060\103\101\045\062\060\111\111\054\117
\075\124\103\045\062\060\124\162\165\163\164\103\145\156\164\145
\162\045\062\060\107\155\142\110\054\117\125\075\162\157\157\164
\143\145\162\164\163\054\104\103\075\164\162\165\163\164\143\145
\156\164\145\162\054\104\103\075\144\145\077\143\145\162\164\151
\146\151\143\141\164\145\122\145\166\157\143\141\164\151\157\156
\114\151\163\164\077\142\141\163\145\077\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\003\202\001\001\000\214\327
\337\176\356\033\200\020\263\203\365\333\021\352\153\113\250\222
\030\331\367\007\071\365\054\276\006\165\172\150\123\025\034\352
\112\355\136\374\043\262\023\240\323\011\377\366\366\056\153\101
\161\171\315\342\155\375\256\131\153\205\035\270\116\042\232\355
\146\071\156\113\224\346\125\374\013\033\213\167\301\123\023\146
\211\331\050\326\213\363\105\112\143\267\375\173\013\141\135\270
\155\276\303\334\133\171\322\355\206\345\242\115\276\136\164\174

\152\355\026\070\037\177\130\201\132\032\353\062\210\055\262\363
\071\167\200\257\136\266\141\165\051\333\043\115\210\312\120\050
\313\205\322\323\020\242\131\156\323\223\124\000\172\242\106\225
\206\005\234\251\031\230\345\061\162\014\000\342\147\331\100\340
\044\063\173\157\054\271\134\253\145\235\054\254\166\352\065\231
\365\227\271\017\044\354\307\166\041\050\145\256\127\350\007\210
\165\112\126\240\322\005\072\244\346\215\222\210\054\363\362\341
\301\306\141\333\101\305\307\233\367\016\032\121\105\302\141\153
\334\144\047\027\214\132\267\332\164\050\315\227\344\275
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "TC TrustCenter Class 2 CA II"
Issuer: CN=TC TrustCenter Class 2 CA II,OU=TC TrustCenter Class 2 CA,O=TC TrustCenter GmbH,C=DE
Serial Number:2e:6a:00:01:00:02:1f:d7:52:21:2c:11:5c:3b
Subject: CN=TC TrustCenter Class 2 CA II,OU=TC TrustCenter Class 2 CA,O=TC TrustCenter GmbH,C=DE
Not Valid Before: Thu Jan 12 14:38:43 2006
Not Valid After: Wed Dec 31 22:59:59 2025
Fingerprint (MD5): ce:78:33:5c:59:78:01:6e:18:ea:b9:36:a0:b9:2e:23
Fingerprint (SHA1): ae:50:83:ed:7c:f4:5c:bc:8f:61:c6:21:fe:68:5d:79:42:21:15:6e
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TC TrustCenter Class 2 CA II"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\256\120\203\355\174\364\134\274\217\141\306\041\376\150\135\171
\102\041\025\156
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\316\170\063\134\131\170\001\156\030\352\271\066\240\271\056\043
END
CKA_ISSUER MULTILINE_OCTAL
\060\166\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\034\060\032\006\003\125\004\012\023\023\124\103\040\124\162\165
\163\164\103\145\156\164\145\162\040\107\155\142\110\061\042\060
\040\006\003\125\004\013\023\031\124\103\040\124\162\165\163\164
\103\145\156\164\145\162\040\103\154\141\163\163\040\062\040\103
\101\061\045\060\043\006\003\125\004\003\023\034\124\103\040\124
\162\165\163\164\103\145\156\164\145\162\040\103\154\141\163\163
\040\062\040\103\101\040\111\111
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\016\056\152\000\001\000\002\037\327\122\041\054\021\134\073
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "TC TrustCenter Class 4 CA II"
Issuer: CN=TC TrustCenter Class 4 CA II,OU=TC TrustCenter Class 4 CA,O=TC TrustCenter GmbH,C=DE
Serial Number:05:c0:00:01:00:02:41:d0:06:0a:4d:ce:75:10
Subject: CN=TC TrustCenter Class 4 CA II,OU=TC TrustCenter Class 4 CA,O=TC TrustCenter GmbH,C=DE
Not Valid Before: Thu Mar 23 14:10:23 2006
Not Valid After: Wed Dec 31 22:59:59 2025
Fingerprint (MD5): 9d:fb:f9:ac:ed:89:33:22:f4:28:48:83:25:23:5b:e0
Fingerprint (SHA1): a6:9a:91:fd:05:7f:13:6a:42:63:0b:b1:76:0d:2d:51:12:0c:16:50
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TC TrustCenter Class 4 CA II"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\166\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\034\060\032\006\003\125\004\012\023\023\124\103\040\124\162\165
\163\164\103\145\156\164\145\162\040\107\155\142\110\061\042\060
\040\006\003\125\004\013\023\031\124\103\040\124\162\165\163\164
\103\145\156\164\145\162\040\103\154\141\163\163\040\064\040\103
\101\061\045\060\043\006\003\125\004\003\023\034\124\103\040\124
\162\165\163\164\103\145\156\164\145\162\040\103\154\141\163\163
\040\064\040\103\101\040\111\111
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\166\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\034\060\032\006\003\125\004\012\023\023\124\103\040\124\162\165
\163\164\103\145\156\164\145\162\040\107\155\142\110\061\042\060
\040\006\003\125\004\013\023\031\124\103\040\124\162\165\163\164
\103\145\156\164\145\162\040\103\154\141\163\163\040\064\040\103
\101\061\045\060\043\006\003\125\004\003\023\034\124\103\040\124
\162\165\163\164\103\145\156\164\145\162\040\103\154\141\163\163
\040\064\040\103\101\040\111\111
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\016\005\300\000\001\000\002\101\320\006\012\115\316\165\020
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\266\060\202\002\236\240\003\002\001\002\002\016\005
\300\000\001\000\002\101\320\006\012\115\316\165\020\060\015\006
\011\052\206\110\206\367\015\001\001\005\005\000\060\166\061\013

\060\011\006\003\125\004\006\023\002\104\105\061\034\060\032\006
\003\125\004\012\023\023\124\103\040\124\162\165\163\164\103\145
\156\164\145\162\040\107\155\142\110\061\042\060\040\006\003\125
\004\013\023\031\124\103\040\124\162\165\163\164\103\145\156\164
\145\162\040\103\154\141\163\163\040\064\040\103\101\061\045\060
\043\006\003\125\004\003\023\034\124\103\040\124\162\165\163\164
\103\145\156\164\145\162\040\103\154\141\163\163\040\064\040\103
\101\040\111\111\060\036\027\015\060\066\060\063\062\063\061\064
\061\060\062\063\132\027\015\062\065\061\062\063\061\062\062\065
\071\065\071\132\060\166\061\013\060\011\006\003\125\004\006\023
\002\104\105\061\034\060\032\006\003\125\004\012\023\023\124\103
\040\124\162\165\163\164\103\145\156\164\145\162\040\107\155\142
\110\061\042\060\040\006\003\125\004\013\023\031\124\103\040\124
\162\165\163\164\103\145\156\164\145\162\040\103\154\141\163\163
\040\064\040\103\101\061\045\060\043\006\003\125\004\003\023\034
\124\103\040\124\162\165\163\164\103\145\156\164\145\162\040\103
\154\141\163\163\040\064\040\103\101\040\111\111\060\202\001\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\001\017\000\060\202\001\012\002\202\001\001\000\265\315\114
\234\255\256\121\273\174\110\305\015\051\206\172\024\255\331\120
\075\011\162\040\015\024\266\143\306\376\130\236\340\041\136\363
\217\042\031\334\116\221\040\315\157\210\051\242\263\301\254\052
\162\272\213\124\270\100\137\362\252\370\103\206\302\060\134\314
\247\135\177\306\010\111\344\016\071\057\216\030\326\221\335\043
\026\171\200\333\154\110\035\274\301\337\050\020\143\321\201\343
\335\337\057\171\165\242\033\170\362\224\001\346\020\142\171\313
\240\175\002\300\064\202\173\307\300\255\035\114\327\152\226\166
\133\277\046\204\110\375\207\366\204\012\252\222\007\231\110\074
\141\274\116\205\130\307\227\055\375\201\112\241\306\233\022\365
\102\120\321\144\076\211\150\202\042\160\335\365\372\343\050\102
\057\116\062\363\263\243\066\212\152\326\142\134\254\372\001\155
\264\340\162\056\225\150\264\361\223\014\306\212\202\322\035\123
\352\174\340\077\102\267\022\132\270\315\332\245\006\147\313\241
\167\175\245\226\360\222\036\147\016\035\102\106\346\371\355\373
\107\123\177\127\004\106\037\106\137\307\256\340\217\002\003\001
\000\001\243\102\060\100\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001
\377\004\004\003\002\001\206\060\035\006\003\125\035\016\004\026
\004\024\037\352\273\076\045\033\006\275\245\335\142\005\176\306
\114\132\277\350\017\103\060\015\006\011\052\206\110\206\367\015
\001\001\005\005\000\003\202\001\001\000\130\244\053\233\114\367
\344\244\222\244\234\145\230\031\142\042\374\162\062\351\004\135
\304\304\160\055\132\106\336\114\107\212\045\271\242\335\356\352
\022\257\110\215\357\053\147\333\073\314\064\230\052\367\010\107
\377\042\257\173\361\364\353\342\070\002\063\030\165\050\033\236
\166\145\254\210\003\162\362\070\107\035\214\365\237\012\210\123
\020\024\273\200\345\014\263\135\215\027\356\036\031\034\206\215
\024\147\170\214\222\313\036\041\111\367\177\323\030\277\234\171

\370\135\010\171\265\252\152\115\222\066\154\274\171\353\016\075
\171\212\330\366\243\126\160\135\336\333\117\171\322\172\322\225
\134\206\047\145\276\240\323\007\201\100\125\335\020\313\340\113
\210\202\300\220\175\070\347\277\226\341\227\272\232\253\102\017
\323\237\330\236\025\063\021\313\367\202\171\365\265\300\101\126
\222\341\337\125\003\255\110\317\323\362\056\261\307\055\126\114
\144\164\052\061\316\334\165\251\124\107\244\247\102\162\011\347
\341\002\246\107\262\004\315\102\023\341\141\014\340\170\072\042
\040\242\034\140\102\206\207\367\245\346
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "TC TrustCenter Class 4 CA II"
Issuer: CN=TC TrustCenter Class 4 CA II,OU=TC TrustCenter Class 4 CA,O=TC TrustCenter GmbH,C=DE
Serial Number:05:c0:00:01:00:02:41:d0:06:0a:4d:ce:75:10
Subject: CN=TC TrustCenter Class 4 CA II,OU=TC TrustCenter Class 4 CA,O=TC TrustCenter GmbH,C=DE
Not Valid Before: Thu Mar 23 14:10:23 2006
Not Valid After: Wed Dec 31 22:59:59 2025
Fingerprint (MD5): 9d:fb:f9:ac:ed:89:33:22:f4:28:48:83:25:23:5b:e0
Fingerprint (SHA1): a6:9a:91:fd:05:7f:13:6a:42:63:0b:b1:76:0d:2d:51:12:0c:16:50
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TC TrustCenter Class 4 CA II"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\246\232\221\375\005\177\023\152\102\143\013\261\166\015\055\121
\022\014\026\120
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\235\373\371\254\355\211\063\042\364\050\110\203\045\043\133\340
END
CKA_ISSUER MULTILINE_OCTAL
\060\166\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\034\060\032\006\003\125\004\012\023\023\124\103\040\124\162\165
\163\164\103\145\156\164\145\162\040\107\155\142\110\061\042\060
\040\006\003\125\004\013\023\031\124\103\040\124\162\165\163\164
\103\145\156\164\145\162\040\103\154\141\163\163\040\064\040\103
\101\061\045\060\043\006\003\125\004\003\023\034\124\103\040\124
\162\165\163\164\103\145\156\164\145\162\040\103\154\141\163\163
\040\064\040\103\101\040\111\111
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\016\005\300\000\001\000\002\101\320\006\012\115\316\165\020
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Swisscom Root CA 1"
Issuer: CN=Swisscom Root CA 1,OU=Digital Certificate Services,O=Swisscom,C=ch
Serial Number:5c:0b:85:5c:0b:e7:59:41:df:57:cc:3f:7f:9d:a8:36
Subject: CN=Swisscom Root CA 1,OU=Digital Certificate Services,O=Swisscom,C=ch
Not Valid Before: Thu Aug 18 12:06:20 2005
Not Valid After: Mon Aug 18 22:06:20 2025
Fingerprint (MD5): f8:38:7c:77:88:df:2c:16:68:2e:c2:e2:52:4b:b8:f9
Fingerprint (SHA1): 5f:3a:fc:0a:8b:64:f6:86:67:34:74:df:7e:a9:a2:fe:f9:fa:7a:51
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Swisscom Root CA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\144\061\013\060\011\006\003\125\004\006\023\002\143\150\061
\021\060\017\006\003\125\004\012\023\010\123\167\151\163\163\143
\157\155\061\045\060\043\006\003\125\004\013\023\034\104\151\147
\151\164\141\154\040\103\145\162\164\151\146\151\143\141\164\145
\040\123\145\162\166\151\143\145\163\061\033\060\031\006\003\125
\004\003\023\022\123\167\151\163\163\143\157\155\040\122\157\157
\164\040\103\101\040\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\144\061\013\060\011\006\003\125\004\006\023\002\143\150\061
\021\060\017\006\003\125\004\012\023\010\123\167\151\163\163\143
\157\155\061\045\060\043\006\003\125\004\013\023\034\104\151\147
\151\164\141\154\040\103\145\162\164\151\146\151\143\141\164\145
\040\123\145\162\166\151\143\145\163\061\033\060\031\006\003\125
\004\003\023\022\123\167\151\163\163\143\157\155\040\122\157\157
\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\134\013\205\134\013\347\131\101\337\127\314\077\177\235
\250\066
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\331\060\202\003\301\240\003\002\001\002\002\020\134
\013\205\134\013\347\131\101\337\127\314\077\177\235\250\066\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\144
\061\013\060\011\006\003\125\004\006\023\002\143\150\061\021\060

\017\006\003\125\004\012\023\010\123\167\151\163\163\143\157\155
\061\045\060\043\006\003\125\004\013\023\034\104\151\147\151\164
\141\154\040\103\145\162\164\151\146\151\143\141\164\145\040\123
\145\162\166\151\143\145\163\061\033\060\031\006\003\125\004\003
\023\022\123\167\151\163\163\143\157\155\040\122\157\157\164\040
\103\101\040\061\060\036\027\015\060\065\060\070\061\070\061\062
\060\066\062\060\132\027\015\062\065\060\070\061\070\062\062\060
\066\062\060\132\060\144\061\013\060\011\006\003\125\004\006\023
\002\143\150\061\021\060\017\006\003\125\004\012\023\010\123\167
\151\163\163\143\157\155\061\045\060\043\006\003\125\004\013\023
\034\104\151\147\151\164\141\154\040\103\145\162\164\151\146\151
\143\141\164\145\040\123\145\162\166\151\143\145\163\061\033\060
\031\006\003\125\004\003\023\022\123\167\151\163\163\143\157\155
\040\122\157\157\164\040\103\101\040\061\060\202\002\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002
\017\000\060\202\002\012\002\202\002\001\000\320\271\260\250\014
\331\273\077\041\370\033\325\063\223\200\026\145\040\165\262\075
\233\140\155\106\310\214\061\157\027\303\372\232\154\126\355\074
\305\221\127\303\315\253\226\111\220\052\031\113\036\243\155\127
\335\361\053\142\050\165\105\136\252\326\133\372\013\045\330\241
\026\371\034\304\056\346\225\052\147\314\320\051\156\074\205\064
\070\141\111\261\000\237\326\072\161\137\115\155\316\137\271\251
\344\211\177\152\122\372\312\233\362\334\251\371\235\231\107\077
\116\051\137\264\246\215\135\173\013\231\021\003\003\376\347\333
\333\243\377\035\245\315\220\036\001\037\065\260\177\000\333\220
\157\306\176\173\321\356\172\172\247\252\014\127\157\244\155\305
\023\073\260\245\331\355\062\034\264\136\147\213\124\334\163\207
\345\323\027\174\146\120\162\135\324\032\130\301\331\317\330\211
\002\157\247\111\264\066\135\320\244\336\007\054\266\165\267\050
\221\326\227\276\050\365\230\036\352\133\046\311\275\260\227\163
\332\256\221\046\353\150\301\371\071\025\326\147\113\012\155\117
\313\317\260\344\102\161\214\123\171\347\356\341\333\035\240\156
\035\214\032\167\065\134\026\036\053\123\037\064\213\321\154\374
\362\147\007\172\365\255\355\326\232\253\241\261\113\341\314\067
\137\375\177\315\115\256\270\037\234\103\371\052\130\125\103\105
\274\226\315\160\016\374\311\343\146\272\116\215\073\201\313\025
\144\173\271\224\350\135\063\122\205\161\056\117\216\242\006\021
\121\311\343\313\241\156\061\010\144\014\302\322\074\365\066\350
\327\320\016\170\043\040\221\311\044\052\145\051\133\042\367\041
\316\203\136\244\363\336\113\323\150\217\106\165\134\203\011\156
\051\153\304\160\214\365\235\327\040\057\377\106\322\053\070\302
\057\165\034\075\176\332\245\357\036\140\205\151\102\323\314\370
\143\376\036\103\071\205\246\266\143\101\020\263\163\036\274\323
\372\312\175\026\107\342\247\325\320\243\212\012\010\226\142\126
\156\064\333\331\002\271\060\165\343\004\322\347\217\302\260\021
\100\012\254\325\161\002\142\213\061\276\335\306\043\130\061\102
\103\055\164\371\306\236\246\212\017\351\376\277\203\346\103\127
\044\272\357\106\064\252\327\022\001\070\355\002\003\001\000\001

\243\201\206\060\201\203\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\206\060\035\006\003\125\035\041\004\026\060
\024\060\022\006\007\140\205\164\001\123\000\001\006\007\140\205
\164\001\123\000\001\060\022\006\003\125\035\023\001\001\377\004
\010\060\006\001\001\377\002\001\007\060\037\006\003\125\035\043
\004\030\060\026\200\024\003\045\057\336\157\202\001\072\134\054
\334\053\241\151\265\147\324\214\323\375\060\035\006\003\125\035
\016\004\026\004\024\003\045\057\336\157\202\001\072\134\054\334
\053\241\151\265\147\324\214\323\375\060\015\006\011\052\206\110
\206\367\015\001\001\005\005\000\003\202\002\001\000\065\020\313
\354\246\004\015\015\017\315\300\333\253\250\362\210\227\014\337
\223\057\115\174\100\126\061\172\353\244\017\140\315\172\363\276
\303\047\216\003\076\244\335\022\357\176\036\164\006\074\077\061
\362\034\173\221\061\041\264\360\320\154\227\324\351\227\262\044
\126\036\126\303\065\275\210\005\017\133\020\032\144\341\307\202
\060\371\062\255\236\120\054\347\170\005\320\061\261\132\230\212
\165\116\220\134\152\024\052\340\122\107\202\140\346\036\332\201
\261\373\024\013\132\361\237\322\225\272\076\320\033\326\025\035
\243\276\206\325\333\017\300\111\144\273\056\120\031\113\322\044
\370\335\036\007\126\320\070\240\225\160\040\166\214\327\335\036
\336\237\161\304\043\357\203\023\134\243\044\025\115\051\100\074
\152\304\251\330\267\246\104\245\015\364\340\235\167\036\100\160
\046\374\332\331\066\344\171\344\265\077\274\233\145\276\273\021
\226\317\333\306\050\071\072\010\316\107\133\123\132\305\231\376
\135\251\335\357\114\324\306\245\255\002\346\214\007\022\036\157
\003\321\157\240\243\363\051\275\022\307\120\242\260\177\210\251
\231\167\232\261\300\245\071\056\134\174\151\342\054\260\352\067
\152\244\341\132\341\365\120\345\203\357\245\273\052\210\347\214
\333\375\155\136\227\031\250\176\146\165\153\161\352\277\261\307
\157\240\364\216\244\354\064\121\133\214\046\003\160\241\167\325
\001\022\127\000\065\333\043\336\016\212\050\231\375\261\020\157
\113\377\070\055\140\116\054\234\353\147\265\255\111\356\113\037
\254\257\373\015\220\132\146\140\160\135\252\315\170\324\044\356
\310\101\240\223\001\222\234\152\236\374\271\044\305\263\025\202
\176\276\256\225\053\353\261\300\332\343\001\140\013\136\151\254
\204\126\141\276\161\027\376\035\023\017\376\306\207\105\351\376
\062\240\032\015\023\244\224\125\161\245\026\213\272\312\211\260
\262\307\374\217\330\124\265\223\142\235\316\317\131\373\075\030
\316\052\313\065\025\202\135\377\124\042\133\161\122\373\267\311
\376\140\233\000\101\144\360\252\052\354\266\102\103\316\211\146
\201\310\213\237\071\124\003\045\323\026\065\216\204\320\137\372
\060\032\365\232\154\364\016\123\371\072\133\321\034
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate

Trust for "Swisscom Root CA 1"
Issuer: CN=Swisscom Root CA 1,OU=Digital Certificate Services,O=Swisscom,C=ch
Serial Number:5c:0b:85:5c:0b:e7:59:41:df:57:cc:3f:7f:9d:a8:36
Subject: CN=Swisscom Root CA 1,OU=Digital Certificate Services,O=Swisscom,C=ch
Not Valid Before: Thu Aug 18 12:06:20 2005
Not Valid After: Mon Aug 18 22:06:20 2025
Fingerprint (MD5): f8:38:7c:77:88:df:2c:16:68:2e:c2:e2:52:4b:b8:f9
Fingerprint (SHA1): 5f:3a:fc:0a:8b:64:f6:86:67:34:74:df:7e:a9:a2:fe:f9:fa:7a:51
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Swisscom Root CA 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\137\072\374\012\213\144\366\206\147\064\164\337\176\251\242\376
\371\372\172\121
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\370\070\174\167\210\337\054\026\150\056\302\342\122\113\270\371
END
CKA_ISSUER MULTILINE_OCTAL
\060\144\061\013\060\011\006\003\125\004\006\023\002\143\150\061
\021\060\017\006\003\125\004\012\023\010\123\167\151\163\163\143
\157\155\061\045\060\043\006\003\125\004\013\023\034\104\151\147
\151\164\141\154\040\103\145\162\164\151\146\151\143\141\164\145
\040\123\145\162\166\151\143\145\163\061\033\060\031\006\003\125
\004\003\023\022\123\167\151\163\163\143\157\155\040\122\157\157
\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\134\013\205\134\013\347\131\101\337\127\314\077\177\235
\250\066
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Microsec e-Szigno Root CA"
Issuer: CN=Microsec e-Szigno Root CA,OU=e-Szigno CA,O=Microsec Ltd.,L=Budapest,C=HU
Serial Number:cc:b8:e7:bf:4e:29:1a:fd:a2:dc:66:a5:1c:2c:0f:11
Subject: CN=Microsec e-Szigno Root CA,OU=e-Szigno CA,O=Microsec Ltd.,L=Budapest,C=HU
Not Valid Before: Wed Apr 06 12:28:44 2005
Not Valid After: Thu Apr 06 12:28:44 2017
Fingerprint (MD5): f0:96:b6:2f:c5:10:d5:67:8e:83:25:32:e8:5e:2e:e5
Fingerprint (SHA1): 23:88:c9:d3:71:cc:9e:96:3d:ff:7d:3c:a7:ce:fc:d6:25:ec:19:0d
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsec e-Szigno Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\162\061\013\060\011\006\003\125\004\006\023\002\110\125\061
\021\060\017\006\003\125\004\007\023\010\102\165\144\141\160\145
\163\164\061\026\060\024\006\003\125\004\012\023\015\115\151\143
\162\157\163\145\143\040\114\164\144\056\061\024\060\022\006\003
\125\004\013\023\013\145\055\123\172\151\147\156\157\040\103\101
\061\042\060\040\006\003\125\004\003\023\031\115\151\143\162\157
\163\145\143\040\145\055\123\172\151\147\156\157\040\122\157\157
\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\162\061\013\060\011\006\003\125\004\006\023\002\110\125\061
\021\060\017\006\003\125\004\007\023\010\102\165\144\141\160\145
\163\164\061\026\060\024\006\003\125\004\012\023\015\115\151\143
\162\157\163\145\143\040\114\164\144\056\061\024\060\022\006\003
\125\004\013\023\013\145\055\123\172\151\147\156\157\040\103\101
\061\042\060\040\006\003\125\004\003\023\031\115\151\143\162\157
\163\145\143\040\145\055\123\172\151\147\156\157\040\122\157\157
\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\314\270\347\277\116\051\032\375\242\334\146\245\034
\054\017\021
END
CKA_VALUE MULTILINE_OCTAL
\060\202\007\250\060\202\006\220\240\003\002\001\002\002\021\000
\314\270\347\277\116\051\032\375\242\334\146\245\034\054\017\021
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\162\061\013\060\011\006\003\125\004\006\023\002\110\125\061\021
\060\017\006\003\125\004\007\023\010\102\165\144\141\160\145\163
\164\061\026\060\024\006\003\125\004\012\023\015\115\151\143\162
\157\163\145\143\040\114\164\144\056\061\024\060\022\006\003\125
\004\013\023\013\145\055\123\172\151\147\156\157\040\103\101\061
\042\060\040\006\003\125\004\003\023\031\115\151\143\162\157\163
\145\143\040\145\055\123\172\151\147\156\157\040\122\157\157\164
\040\103\101\060\036\027\015\060\065\060\064\060\066\061\062\062
\070\064\064\132\027\015\061\067\060\064\060\066\061\062\062\070
\064\064\132\060\162\061\013\060\011\006\003\125\004\006\023\002
\110\125\061\021\060\017\006\003\125\004\007\023\010\102\165\144
\141\160\145\163\164\061\026\060\024\006\003\125\004\012\023\015
\115\151\143\162\157\163\145\143\040\114\164\144\056\061\024\060
\022\006\003\125\004\013\023\013\145\055\123\172\151\147\156\157

\040\103\101\061\042\060\040\006\003\125\004\003\023\031\115\151
\143\162\157\163\145\143\040\145\055\123\172\151\147\156\157\040
\122\157\157\164\040\103\101\060\202\001\042\060\015\006\011\052
\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060
\202\001\012\002\202\001\001\000\355\310\000\325\201\173\315\070
\000\107\314\333\204\301\041\151\054\164\220\014\041\331\123\207
\355\076\103\104\123\257\253\370\200\233\074\170\215\324\215\256
\270\357\323\021\334\201\346\317\073\226\214\326\157\025\306\167
\176\241\057\340\137\222\266\047\327\166\232\035\103\074\352\331
\354\057\356\071\363\152\147\113\213\202\317\042\370\145\125\376
\054\313\057\175\110\172\075\165\371\252\240\047\273\170\302\006
\312\121\302\176\146\113\257\315\242\247\115\002\202\077\202\254
\205\306\341\017\220\107\231\224\012\161\162\223\052\311\246\300
\276\074\126\114\163\222\047\361\153\265\365\375\374\060\005\140
\222\306\353\226\176\001\221\302\151\261\036\035\173\123\105\270
\334\101\037\311\213\161\326\124\024\343\213\124\170\077\276\364
\142\073\133\365\243\354\325\222\164\342\164\060\357\001\333\341
\324\253\231\233\052\153\370\275\246\034\206\043\102\137\354\111
\336\232\213\133\364\162\072\100\305\111\076\245\276\216\252\161
\353\154\372\365\032\344\152\375\173\175\125\100\357\130\156\346
\331\325\274\044\253\301\357\267\002\003\001\000\001\243\202\004
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\001\004\133\060\131\060\050\006\010\053\006\001\005\005\007\060
\001\206\034\150\164\164\160\163\072\057\057\162\143\141\056\145
\055\163\172\151\147\156\157\056\150\165\057\157\143\163\160\060
\055\006\010\053\006\001\005\005\007\060\002\206\041\150\164\164
\160\072\057\057\167\167\167\056\145\055\163\172\151\147\156\157
\056\150\165\057\122\157\157\164\103\101\056\143\162\164\060\017
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\060\202\001\142\006\014\053\006\001\004\001\201\250\030\002\001
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\002\001\026\034\150\164\164\160\072\057\057\167\167\167\056\145
\055\163\172\151\147\156\157\056\150\165\057\123\132\123\132\057
\060\202\001\042\006\010\053\006\001\005\005\007\002\002\060\202
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\000\372\000\163\000\355\000\164\000\166\000\341\000\156\000\171
\000\040\000\351\000\162\000\164\000\145\000\154\000\155\000\145
\000\172\000\351\000\163\000\351\000\150\000\145\000\172\000\040
\000\351\000\163\000\040\000\145\000\154\000\146\000\157\000\147
\000\141\000\144\000\341\000\163\000\341\000\150\000\157\000\172
\000\040\000\141\000\040\000\123\000\172\000\157\000\154\000\147
\000\341\000\154\000\164\000\141\000\164\000\363\000\040\000\123
\000\172\000\157\000\154\000\147\000\341\000\154\000\164\000\141
\000\164\000\341\000\163\000\151\000\040\000\123\000\172\000\141
\000\142\000\341\000\154\000\171\000\172\000\141\000\164\000\141
\000\040\000\163\000\172\000\145\000\162\000\151\000\156\000\164
\000\040\000\153\000\145\000\154\000\154\000\040\000\145\000\154

\000\152\000\341\000\162\000\156\000\151\000\072\000\040\000\150
\000\164\000\164\000\160\000\072\000\057\000\057\000\167\000\167
\000\167\000\056\000\145\000\055\000\163\000\172\000\151\000\147
\000\156\000\157\000\056\000\150\000\165\000\057\000\123\000\132
\000\123\000\132\000\057\060\201\310\006\003\125\035\037\004\201
\300\060\201\275\060\201\272\240\201\267\240\201\264\206\041\150
\164\164\160\072\057\057\167\167\167\056\145\055\163\172\151\147
\156\157\056\150\165\057\122\157\157\164\103\101\056\143\162\154
\206\201\216\154\144\141\160\072\057\057\154\144\141\160\056\145
\055\163\172\151\147\156\157\056\150\165\057\103\116\075\115\151
\143\162\157\163\145\143\045\062\060\145\055\123\172\151\147\156
\157\045\062\060\122\157\157\164\045\062\060\103\101\054\117\125
\075\145\055\123\172\151\147\156\157\045\062\060\103\101\054\117
\075\115\151\143\162\157\163\145\143\045\062\060\114\164\144\056
\054\114\075\102\165\144\141\160\145\163\164\054\103\075\110\125
\077\143\145\162\164\151\146\151\143\141\164\145\122\145\166\157
\143\141\164\151\157\156\114\151\163\164\073\142\151\156\141\162
\171\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
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\020\151\156\146\157\100\145\055\163\172\151\147\156\157\056\150
\165\244\167\060\165\061\043\060\041\006\003\125\004\003\014\032
\115\151\143\162\157\163\145\143\040\145\055\123\172\151\147\156
\303\263\040\122\157\157\164\040\103\101\061\026\060\024\006\003
\125\004\013\014\015\145\055\123\172\151\147\156\303\263\040\110
\123\132\061\026\060\024\006\003\125\004\012\023\015\115\151\143
\162\157\163\145\143\040\113\146\164\056\061\021\060\017\006\003
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\011\006\003\125\004\006\023\002\110\125\060\201\254\006\003\125
\035\043\004\201\244\060\201\241\200\024\307\240\111\165\026\141
\204\333\061\113\204\322\361\067\100\220\357\116\334\367\241\166
\244\164\060\162\061\013\060\011\006\003\125\004\006\023\002\110
\125\061\021\060\017\006\003\125\004\007\023\010\102\165\144\141
\160\145\163\164\061\026\060\024\006\003\125\004\012\023\015\115
\151\143\162\157\163\145\143\040\114\164\144\056\061\024\060\022
\006\003\125\004\013\023\013\145\055\123\172\151\147\156\157\040
\103\101\061\042\060\040\006\003\125\004\003\023\031\115\151\143
\162\157\163\145\143\040\145\055\123\172\151\147\156\157\040\122
\157\157\164\040\103\101\202\021\000\314\270\347\277\116\051\032
\375\242\334\146\245\034\054\017\021\060\035\006\003\125\035\016
\004\026\004\024\307\240\111\165\026\141\204\333\061\113\204\322
\361\067\100\220\357\116\334\367\060\015\006\011\052\206\110\206
\367\015\001\001\005\005\000\003\202\001\001\000\323\023\234\146
\143\131\056\312\134\160\014\374\203\274\125\261\364\216\007\154
\146\047\316\301\073\040\251\034\273\106\124\160\356\132\314\240
\167\352\150\104\047\353\362\051\335\167\251\325\373\343\324\247
\004\304\225\270\013\341\104\150\140\007\103\060\061\102\141\345
\356\331\345\044\325\033\337\341\112\033\252\237\307\137\370\172
\021\352\023\223\000\312\212\130\261\356\355\016\115\264\327\250

\066\046\174\340\072\301\325\127\202\361\165\266\375\211\137\332
\363\250\070\237\065\006\010\316\042\225\276\315\325\374\276\133
\336\171\153\334\172\251\145\146\276\261\045\132\137\355\176\323
\254\106\155\114\364\062\207\264\040\004\340\154\170\260\167\321
\205\106\113\246\022\267\165\350\112\311\126\154\327\222\253\235
\365\111\070\322\117\123\343\125\220\021\333\230\226\306\111\362
\076\364\237\033\340\367\210\334\045\142\231\104\330\163\277\077
\060\363\014\067\076\324\302\050\200\163\261\001\267\235\132\226
\024\001\113\251\021\235\051\152\056\320\135\201\300\317\262\040
\103\307\003\340\067\116\135\012\334\131\040\045
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Microsec e-Szigno Root CA"
Issuer: CN=Microsec e-Szigno Root CA,OU=e-Szigno CA,O=Microsec Ltd.,L=Budapest,C=HU
Serial Number:cc:b8:e7:bf:4e:29:1a:fd:a2:dc:66:a5:1c:2c:0f:11
Subject: CN=Microsec e-Szigno Root CA,OU=e-Szigno CA,O=Microsec Ltd.,L=Budapest,C=HU
Not Valid Before: Wed Apr 06 12:28:44 2005
Not Valid After: Thu Apr 06 12:28:44 2017
Fingerprint (MD5): f0:96:b6:2f:c5:10:d5:67:8e:83:25:32:e8:5e:2e:e5
Fingerprint (SHA1): 23:88:c9:d3:71:cc:9e:96:3d:ff:7d:3c:a7:ce:fc:d6:25:ec:19:0d
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsec e-Szigno Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\043\210\311\323\161\314\236\226\075\377\175\074\247\316\374\326
\045\354\031\015
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\360\226\266\057\305\020\325\147\216\203\045\062\350\136\056\345
END
CKA_ISSUER MULTILINE_OCTAL
\060\162\061\013\060\011\006\003\125\004\006\023\002\110\125\061
\021\060\017\006\003\125\004\007\023\010\102\165\144\141\160\145
\163\164\061\026\060\024\006\003\125\004\012\023\015\115\151\143
\162\157\163\145\143\040\114\164\144\056\061\024\060\022\006\003
\125\004\013\023\013\145\055\123\172\151\147\156\157\040\103\101
\061\042\060\040\006\003\125\004\003\023\031\115\151\143\162\157
\163\145\143\040\145\055\123\172\151\147\156\157\040\122\157\157
\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\314\270\347\277\116\051\032\375\242\334\146\245\034

\054\017\021
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "LGPKI"
Issuer: OU=Application CA G2,O=LGPKI,C=JP
Serial Number: 49 (0x31)
Subject: OU=Application CA G2,O=LGPKI,C=JP
Not Valid Before: Fri Mar 31 15:00:00 2006
Not Valid After: Thu Mar 31 14:59:59 2016
Fingerprint (MD5): f3:d7:52:a8:75:fd:18:ec:e1:7d:35:b1:70:6e:a5:9c
Fingerprint (SHA1): 96:83:38:f1:13:e3:6a:7b:ab:dd:08:f7:77:63:91:a6:87:36:58:2e
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "LGPKI"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\016\060\014\006\003\125\004\012\023\005\114\107\120\113\111\061
\032\060\030\006\003\125\004\013\023\021\101\160\160\154\151\143
\141\164\151\157\156\040\103\101\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\016\060\014\006\003\125\004\012\023\005\114\107\120\113\111\061
\032\060\030\006\003\125\004\013\023\021\101\160\160\154\151\143
\141\164\151\157\156\040\103\101\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\061
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\240\060\202\002\210\240\003\002\001\002\002\001\061
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\071\061\013\060\011\006\003\125\004\006\023\002\112\120\061\016
\060\014\006\003\125\004\012\023\005\114\107\120\113\111\061\032
\060\030\006\003\125\004\013\023\021\101\160\160\154\151\143\141
\164\151\157\156\040\103\101\040\107\062\060\036\027\015\060\066
\060\063\063\061\061\065\060\060\060\060\132\027\015\061\066\060
\063\063\061\061\064\065\071\065\071\132\060\071\061\013\060\011
\006\003\125\004\006\023\002\112\120\061\016\060\014\006\003\125

\004\012\023\005\114\107\120\113\111\061\032\060\030\006\003\125
\004\013\023\021\101\160\160\154\151\143\141\164\151\157\156\040
\103\101\040\107\062\060\202\001\042\060\015\006\011\052\206\110
\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001
\012\002\202\001\001\000\271\065\306\020\370\333\150\333\007\304
\100\114\260\035\036\066\334\303\101\366\317\125\025\155\010\177
\134\306\150\125\345\347\127\361\226\121\346\341\115\170\017\156
\100\025\160\073\145\376\021\337\347\323\326\130\065\073\341\237
\002\374\224\122\106\056\263\236\140\233\002\236\311\202\322\366
\343\256\011\117\204\104\266\142\233\000\121\150\270\072\255\354
\144\321\062\113\351\224\104\203\264\016\316\041\211\153\260\066
\300\230\306\113\234\302\076\133\140\052\011\061\053\055\253\114
\336\261\240\375\130\126\302\203\035\040\274\304\204\011\207\173
\250\225\227\306\045\216\203\340\076\223\015\321\307\175\163\251
\250\374\031\000\100\056\042\270\172\063\101\365\170\375\132\161
\347\202\331\110\210\134\354\250\205\207\055\155\200\211\147\032
\151\276\020\300\132\216\355\210\175\076\157\054\070\153\067\316
\107\330\242\061\060\336\176\123\145\154\213\206\123\101\040\154
\275\110\245\176\257\000\132\126\022\130\201\321\334\211\131\371
\265\356\370\115\232\330\104\051\213\171\247\367\042\252\352\174
\134\264\026\210\040\015\002\003\001\000\001\243\201\262\060\201
\257\060\035\006\003\125\035\016\004\026\004\024\177\270\135\216
\304\030\153\306\175\314\056\351\256\316\064\347\027\135\340\241
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006
\060\114\006\003\125\035\037\004\105\060\103\060\101\240\077\240
\075\244\073\060\071\061\013\060\011\006\003\125\004\006\023\002
\112\120\061\016\060\014\006\003\125\004\012\023\005\114\107\120
\113\111\061\032\060\030\006\003\125\004\013\023\021\101\160\160
\154\151\143\141\164\151\157\156\040\103\101\040\107\062\060\017
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060
\037\006\003\125\035\043\004\030\060\026\200\024\177\270\135\216
\304\030\153\306\175\314\056\351\256\316\064\347\027\135\340\241
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003
\202\001\001\000\074\330\163\066\100\006\110\112\124\031\365\047
\110\071\045\245\156\102\347\266\315\033\313\071\064\267\233\354
\117\052\276\167\344\312\204\374\035\353\233\042\100\325\364\373
\150\207\162\374\107\135\152\016\122\112\343\265\135\110\306\042
\226\346\063\155\155\253\366\315\327\313\044\132\214\250\105\236
\076\141\202\175\224\325\005\360\032\065\137\161\057\056\124\265
\101\005\357\206\015\122\357\234\230\033\361\054\114\072\321\363
\206\323\214\076\172\057\206\105\216\203\062\046\133\277\123\312
\016\121\126\334\232\302\132\060\031\015\247\236\325\252\233\040
\071\151\170\041\364\227\155\321\016\021\114\056\323\033\132\260
\371\227\170\134\052\217\122\145\356\114\102\045\302\067\060\016
\155\053\065\224\203\006\350\257\105\073\004\146\247\060\273\371
\340\041\073\143\156\175\104\135\072\152\123\357\021\027\044\375
\124\262\132\154\163\126\041\311\154\055\227\244\102\263\047\141
\005\041\143\155\352\050\274\117\032\157\102\334\230\253\125\323

\036\033\300\222\077\233\301\346\073\027\126\342\304\230\103\045
\356\266\313\000
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "LGPKI"
Issuer: OU=Application CA G2,O=LGPKI,C=JP
Serial Number: 49 (0x31)
Subject: OU=Application CA G2,O=LGPKI,C=JP
Not Valid Before: Fri Mar 31 15:00:00 2006
Not Valid After: Thu Mar 31 14:59:59 2016
Fingerprint (MD5): f3:d7:52:a8:75:fd:18:ec:e1:7d:35:b1:70:6e:a5:9c
Fingerprint (SHA1): 96:83:38:f1:13:e3:6a:7b:ab:dd:08:f7:77:63:91:a6:87:36:58:2e
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "LGPKI"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\226\203\070\361\023\343\152\173\253\335\010\367\167\143\221\246
\207\066\130\056
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\363\327\122\250\165\375\030\354\341\175\065\261\160\156\245\234
END
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\016\060\014\006\003\125\004\012\023\005\114\107\120\113\111\061
\032\060\030\006\003\125\004\013\023\021\101\160\160\154\151\143
\141\164\151\157\156\040\103\101\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\061
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "AC RAIZ DNIE"
Issuer: CN=AC RAIZ DNIE,OU=DNIE,O=DIRECCION GENERAL DE LA POLICIA,C=ES
Serial Number:d2:85:70:fd:ae:a7:d6:5f:11:84:15:c6:31:b5:cb
Subject: CN=AC RAIZ DNIE,OU=DNIE,O=DIRECCION GENERAL DE LA POLICIA,C=ES
Not Valid Before: Thu Feb 16 10:37:25 2006

Not Valid After: Fri Feb 08 22:59:59 2036
Fingerprint (MD5): 15:5e:f5:11:7a:a2:c1:15:0e:92:7e:66:fe:3b:84:c3
Fingerprint (SHA1): b3:8f:ec:ec:0b:14:8a:a6:86:c3:d0:0f:01:ec:c8:84:8e:80:85:eb
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ DNIE"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\050\060\046\006\003\125\004\012\014\037\104\111\122\105\103\103
\111\117\116\040\107\105\116\105\122\101\114\040\104\105\040\114
\101\040\120\117\114\111\103\111\101\061\015\060\013\006\003\125
\004\013\014\004\104\116\111\105\061\025\060\023\006\003\125\004
\003\014\014\101\103\040\122\101\111\132\040\104\116\111\105
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\050\060\046\006\003\125\004\012\014\037\104\111\122\105\103\103
\111\117\116\040\107\105\116\105\122\101\114\040\104\105\040\114
\101\040\120\117\114\111\103\111\101\061\015\060\013\006\003\125
\004\013\014\004\104\116\111\105\061\025\060\023\006\003\125\004
\003\014\014\101\103\040\122\101\111\132\040\104\116\111\105
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\000\322\205\160\375\256\247\326\137\021\204\025\306\061
\265\313
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\277\060\202\003\247\240\003\002\001\002\002\020\000
\322\205\160\375\256\247\326\137\021\204\025\306\061\265\313\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\135
\061\013\060\011\006\003\125\004\006\023\002\105\123\061\050\060
\046\006\003\125\004\012\014\037\104\111\122\105\103\103\111\117
\116\040\107\105\116\105\122\101\114\040\104\105\040\114\101\040
\120\117\114\111\103\111\101\061\015\060\013\006\003\125\004\013
\014\004\104\116\111\105\061\025\060\023\006\003\125\004\003\014
\014\101\103\040\122\101\111\132\040\104\116\111\105\060\036\027
\015\060\066\060\062\061\066\061\060\063\067\062\065\132\027\015
\063\066\060\062\060\070\062\062\065\071\065\071\132\060\135\061
\013\060\011\006\003\125\004\006\023\002\105\123\061\050\060\046
\006\003\125\004\012\014\037\104\111\122\105\103\103\111\117\116
\040\107\105\116\105\122\101\114\040\104\105\040\114\101\040\120
\117\114\111\103\111\101\061\015\060\013\006\003\125\004\013\014
\004\104\116\111\105\061\025\060\023\006\003\125\004\003\014\014
\101\103\040\122\101\111\132\040\104\116\111\105\060\202\002\042

\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\002\017\000\060\202\002\012\002\202\002\001\000\200\000\255
\014\303\243\040\007\243\143\377\367\064\240\315\356\152\124\010
\027\135\261\001\025\247\346\271\137\212\161\377\014\302\035\352
\067\363\336\223\177\326\005\115\204\262\325\327\034\014\364\304
\221\160\100\016\132\310\230\244\200\350\015\063\300\007\363\267
\365\254\241\070\172\300\146\124\044\374\122\314\060\052\362\303
\304\241\054\166\277\301\300\277\202\361\233\360\150\172\023\100
\310\227\274\034\045\007\010\012\267\226\357\314\051\124\340\346
\145\055\352\262\056\261\011\151\022\116\060\325\330\370\274\000
\200\057\115\223\017\315\056\127\033\063\273\237\060\116\304\245
\313\171\247\373\342\064\030\266\040\236\033\237\135\247\311\072
\255\105\144\263\030\316\021\022\234\155\036\125\105\050\204\234
\127\147\115\371\313\342\213\217\130\011\324\071\377\310\066\322
\070\342\014\145\177\025\016\175\301\007\335\251\042\337\221\000
\304\154\161\064\164\334\071\352\352\117\104\151\177\130\333\130
\012\122\161\053\354\251\035\120\164\063\371\051\152\372\376\231
\364\347\314\105\105\155\312\132\045\242\022\343\316\327\070\005
\071\360\032\011\365\166\131\316\142\157\172\064\015\054\321\274
\004\022\354\075\123\310\372\320\002\313\316\075\041\265\305\340
\071\063\145\317\071\123\311\233\106\371\235\063\363\131\200\010
\101\276\157\113\240\372\112\316\244\166\034\205\342\257\257\024
\235\145\254\367\177\227\344\063\111\246\257\276\316\053\067\361
\056\301\163\005\234\234\140\114\235\060\015\227\124\236\201\142
\273\347\340\057\367\024\007\024\251\167\221\351\334\221\225\216
\323\210\220\063\107\157\161\303\024\151\372\246\055\001\036\033
\352\323\056\342\177\013\334\317\347\042\360\361\101\243\001\222
\345\200\323\276\251\142\250\125\210\013\064\064\354\334\041\025
\252\357\326\042\136\211\365\121\222\023\052\157\200\026\331\261
\015\331\056\370\020\270\302\376\122\105\063\234\035\070\174\334
\025\151\064\163\277\240\054\273\021\173\224\315\370\067\055\157
\075\357\203\132\306\036\233\164\111\217\331\302\215\276\026\166
\120\310\132\321\045\026\366\366\314\214\234\132\060\236\145\276
\320\232\110\223\327\372\150\015\165\061\207\371\367\002\003\001
\000\001\243\173\060\171\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001
\377\004\004\003\002\001\006\060\035\006\003\125\035\016\004\026
\004\024\216\105\364\237\163\305\377\057\033\005\333\001\107\140
\033\003\212\201\267\272\060\067\006\003\125\035\040\004\060\060
\056\060\054\006\004\125\035\040\000\060\044\060\042\006\010\053
\006\001\005\005\007\002\001\026\026\150\164\164\160\072\057\057
\167\167\167\056\144\156\151\145\056\145\163\057\144\160\143\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202
\002\001\000\165\345\163\311\121\121\057\213\031\240\207\351\377
\256\066\066\246\374\101\037\343\036\327\161\140\031\306\157\232
\002\060\275\142\161\255\163\376\221\055\116\344\046\100\104\251
\256\170\046\043\061\151\334\232\163\226\036\111\121\013\340\357
\301\270\103\357\161\234\356\101\267\305\120\037\062\204\236\042

\206\361\367\037\217\331\255\053\116\332\227\050\227\273\226\232
\032\370\261\331\172\004\363\124\231\022\031\226\025\200\147\071
\377\002\137\172\374\125\102\120\132\346\271\242\377\270\250\142
\036\024\315\331\077\276\243\145\110\305\073\327\067\316\015\372
\050\220\332\277\371\343\121\107\045\175\112\323\147\115\207\252
\142\274\136\354\172\200\104\174\367\237\012\275\145\127\224\312
\362\021\146\326\122\177\344\072\160\165\004\315\073\227\324\066
\162\367\121\126\277\064\365\322\101\341\264\332\250\103\376\153
\022\111\022\264\135\317\042\102\226\214\010\043\046\214\262\020
\116\135\252\123\356\001\057\165\345\271\242\021\063\304\327\152
\375\370\016\312\156\202\331\347\273\131\043\116\265\371\021\035
\057\153\043\365\173\021\040\352\101\022\220\062\106\333\061\073
\251\301\133\163\150\072\106\033\214\376\227\267\126\271\141\231
\314\116\360\203\372\067\361\336\034\235\034\161\213\003\223\303
\304\163\202\056\250\230\035\144\242\232\214\367\124\010\115\317
\352\201\313\365\133\011\231\143\257\165\214\226\370\171\065\325
\334\353\101\201\171\070\204\136\157\361\157\142\166\333\221\316
\132\205\140\071\035\133\342\052\057\103\045\333\302\172\044\323
\025\260\242\361\214\240\175\153\110\011\023\377\242\114\146\212
\354\160\122\011\123\214\060\314\270\325\272\044\334\060\231\076
\241\136\267\337\201\254\354\067\276\116\233\047\130\336\176\241
\233\124\177\006\266\057\344\062\120\375\347\020\273\250\315\332
\030\033\324\143\146\075\352\121\161\071\364\234\076\337\132\364
\332\307\114\046\355\213\265\041\272\064\171\002\163\141\020\332
\230\061\250\140\313\176\007\247\320\267\005\103\211\133\315\205
\046\331\260\121\257\367\214\122\252\022\247\130\337\222\233\147
\362\235\362\346\364\151\061\364\026\347\336\167\133\036\335\232
\005\001\255
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "AC RAIZ DNIE"
Issuer: CN=AC RAIZ DNIE,OU=DNIE,O=DIRECCION GENERAL DE LA POLICIA,C=ES
Serial Number:d2:85:70:fd:ae:a7:d6:5f:11:84:15:c6:31:b5:cb
Subject: CN=AC RAIZ DNIE,OU=DNIE,O=DIRECCION GENERAL DE LA POLICIA,C=ES
Not Valid Before: Thu Feb 16 10:37:25 2006
Not Valid After: Fri Feb 08 22:59:59 2036
Fingerprint (MD5): 15:5e:f5:11:7a:a2:c1:15:0e:92:7e:66:fe:3b:84:c3
Fingerprint (SHA1): b3:8f:ec:ec:0b:14:8a:a6:86:c3:d0:0f:01:ec:c8:84:8e:80:85:eb
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ DNIE"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

\263\217\354\354\013\024\212\246\206\303\320\017\001\354\310\204
\216\200\205\353
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\025\136\365\021\172\242\301\025\016\222\176\146\376\073\204\303
END
CKA_ISSUER MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\050\060\046\006\003\125\004\012\014\037\104\111\122\105\103\103
\111\117\116\040\107\105\116\105\122\101\114\040\104\105\040\114
\101\040\120\117\114\111\103\111\101\061\015\060\013\006\003\125
\004\013\014\004\104\116\111\105\061\025\060\023\006\003\125\004
\003\014\014\101\103\040\122\101\111\132\040\104\116\111\105
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\000\322\205\160\375\256\247\326\137\021\204\025\306\061
\265\313
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "TÜRKTRUST Elektronik Sertifika Hizmet Salaycs"
Issuer: O=TÜRKTRUST Bilgi letiim ve Biliim Güvenlii Hizmetleri A.. (c) Kasm
2005,L=Ankara,C=TR,CN=TÜRKTRUST Elektronik Sertifika Hizmet Salaycs
Serial Number: 1 (0x1)
Subject: O=TÜRKTRUST Bilgi letiim ve Biliim Güvenlii Hizmetleri A.. (c) Kasm
2005,L=Ankara,C=TR,CN=TÜRKTRUST Elektronik Sertifika Hizmet Salaycs
Not Valid Before: Mon Nov 07 10:07:57 2005
Not Valid After: Wed Sep 16 10:07:57 2015
Fingerprint (MD5): 37:a5:6e:d4:b1:25:84:97:b7:fd:56:15:7a:f9:a2:00
Fingerprint (SHA1): b4:35:d4:e1:11:9d:1c:66:90:a7:49:eb:b3:94:bd:63:7b:a7:82:b7
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TÜRKTRUST Elektronik Sertifika Hizmet Salaycs"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\276\061\077\060\075\006\003\125\004\003\014\066\124\303
\234\122\113\124\122\125\123\124\040\105\154\145\153\164\162\157
\156\151\153\040\123\145\162\164\151\146\151\153\141\040\110\151
\172\155\145\164\040\123\141\304\237\154\141\171\304\261\143\304
\261\163\304\261\061\013\060\011\006\003\125\004\006\023\002\124
\122\061\017\060\015\006\003\125\004\007\014\006\101\156\153\141
\162\141\061\135\060\133\006\003\125\004\012\014\124\124\303\234

\122\113\124\122\125\123\124\040\102\151\154\147\151\040\304\260
\154\145\164\151\305\237\151\155\040\166\145\040\102\151\154\151
\305\237\151\155\040\107\303\274\166\145\156\154\151\304\237\151
\040\110\151\172\155\145\164\154\145\162\151\040\101\056\305\236
\056\040\050\143\051\040\113\141\163\304\261\155\040\062\060\060
\065
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\276\061\077\060\075\006\003\125\004\003\014\066\124\303
\234\122\113\124\122\125\123\124\040\105\154\145\153\164\162\157
\156\151\153\040\123\145\162\164\151\146\151\153\141\040\110\151
\172\155\145\164\040\123\141\304\237\154\141\171\304\261\143\304
\261\163\304\261\061\013\060\011\006\003\125\004\006\023\002\124
\122\061\017\060\015\006\003\125\004\007\014\006\101\156\153\141
\162\141\061\135\060\133\006\003\125\004\012\014\124\124\303\234
\122\113\124\122\125\123\124\040\102\151\154\147\151\040\304\260
\154\145\164\151\305\237\151\155\040\166\145\040\102\151\154\151
\305\237\151\155\040\107\303\274\166\145\156\154\151\304\237\151
\040\110\151\172\155\145\164\154\145\162\151\040\101\056\305\236
\056\040\050\143\051\040\113\141\163\304\261\155\040\062\060\060
\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\074\060\202\003\044\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\201\276\061\077\060\075\006\003\125\004\003\014\066\124\303\234
\122\113\124\122\125\123\124\040\105\154\145\153\164\162\157\156
\151\153\040\123\145\162\164\151\146\151\153\141\040\110\151\172
\155\145\164\040\123\141\304\237\154\141\171\304\261\143\304\261
\163\304\261\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\017\060\015\006\003\125\004\007\014\006\101\156\153\141\162
\141\061\135\060\133\006\003\125\004\012\014\124\124\303\234\122
\113\124\122\125\123\124\040\102\151\154\147\151\040\304\260\154
\145\164\151\305\237\151\155\040\166\145\040\102\151\154\151\305
\237\151\155\040\107\303\274\166\145\156\154\151\304\237\151\040
\110\151\172\155\145\164\154\145\162\151\040\101\056\305\236\056
\040\050\143\051\040\113\141\163\304\261\155\040\062\060\060\065
\060\036\027\015\060\065\061\061\060\067\061\060\060\067\065\067
\132\027\015\061\065\060\071\061\066\061\060\060\067\065\067\132
\060\201\276\061\077\060\075\006\003\125\004\003\014\066\124\303
\234\122\113\124\122\125\123\124\040\105\154\145\153\164\162\157
\156\151\153\040\123\145\162\164\151\146\151\153\141\040\110\151
\172\155\145\164\040\123\141\304\237\154\141\171\304\261\143\304
\261\163\304\261\061\013\060\011\006\003\125\004\006\023\002\124

\122\061\017\060\015\006\003\125\004\007\014\006\101\156\153\141
\162\141\061\135\060\133\006\003\125\004\012\014\124\124\303\234
\122\113\124\122\125\123\124\040\102\151\154\147\151\040\304\260
\154\145\164\151\305\237\151\155\040\166\145\040\102\151\154\151
\305\237\151\155\040\107\303\274\166\145\156\154\151\304\237\151
\040\110\151\172\155\145\164\154\145\162\151\040\101\056\305\236
\056\040\050\143\051\040\113\141\163\304\261\155\040\062\060\060
\065\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001
\001\000\251\066\176\303\221\103\114\303\031\230\010\310\307\130
\173\117\026\214\245\316\111\001\037\163\016\254\165\023\246\372
\236\054\040\336\330\220\016\012\321\151\322\047\373\252\167\237
\047\122\045\342\313\135\330\330\203\120\027\175\212\265\202\077
\004\216\264\325\360\111\247\144\267\036\056\137\040\234\120\165
\117\257\341\265\101\024\364\230\222\210\307\345\345\144\107\141
\107\171\375\300\121\361\301\231\347\334\316\152\373\257\265\001
\060\334\106\034\357\212\354\225\357\334\377\257\020\034\353\235
\330\260\252\152\205\030\015\027\311\076\277\361\233\320\011\211
\102\375\240\102\264\235\211\121\125\051\317\033\160\274\204\124
\255\301\023\037\230\364\056\166\140\213\135\077\232\255\312\014
\277\247\126\133\217\167\270\325\236\171\111\222\077\340\361\227
\044\172\154\233\027\017\155\357\123\230\221\053\344\017\276\131
\171\007\170\273\227\225\364\237\151\324\130\207\012\251\343\314
\266\130\031\237\046\041\261\304\131\215\262\101\165\300\255\151
\316\234\000\010\362\066\377\076\360\241\017\032\254\024\375\246
\140\017\002\003\001\000\001\243\103\060\101\060\035\006\003\125
\035\016\004\026\004\024\331\067\263\116\005\375\331\317\237\022
\026\256\266\211\057\353\045\072\210\034\060\017\006\003\125\035
\017\001\001\377\004\005\003\003\007\006\000\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\015\006\011
\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000
\162\140\226\267\311\334\330\051\136\043\205\137\262\263\055\166
\373\210\327\027\376\173\155\105\270\366\205\154\237\042\374\052
\020\042\354\252\271\060\366\253\130\326\071\020\061\231\051\000
\275\211\146\101\373\164\336\221\301\030\013\237\265\141\313\235
\072\276\365\250\224\243\042\125\156\027\111\377\322\051\361\070
\046\135\357\245\252\072\371\161\173\346\332\130\035\323\164\302
\001\372\076\151\130\137\255\313\150\276\024\056\233\154\300\266
\334\240\046\372\167\032\342\044\332\032\067\340\147\255\321\163
\203\015\245\032\035\156\022\222\176\204\142\000\027\275\274\045
\030\127\362\327\251\157\131\210\274\064\267\056\205\170\235\226
\334\024\303\054\212\122\233\226\214\122\146\075\206\026\213\107
\270\121\011\214\352\175\315\210\162\263\140\063\261\360\012\104
\357\017\365\011\067\210\044\016\054\153\040\072\242\372\021\362
\100\065\234\104\150\143\073\254\063\157\143\274\054\273\362\322
\313\166\175\175\210\330\035\310\005\035\156\274\224\251\146\214
\167\161\307\372\221\372\057\121\236\351\071\122\266\347\004\102
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "TÜRKTRUST Elektronik Sertifika Hizmet Salaycs"
Issuer: O=TÜRKTRUST Bilgi letiim ve Biliim Güvenlii Hizmetleri A.. (c) Kasm
2005,L=Ankara,C=TR,CN=TÜRKTRUST Elektronik Sertifika Hizmet Salaycs
Serial Number: 1 (0x1)
Subject: O=TÜRKTRUST Bilgi letiim ve Biliim Güvenlii Hizmetleri A.. (c) Kasm
2005,L=Ankara,C=TR,CN=TÜRKTRUST Elektronik Sertifika Hizmet Salaycs
Not Valid Before: Mon Nov 07 10:07:57 2005
Not Valid After: Wed Sep 16 10:07:57 2015
Fingerprint (MD5): 37:a5:6e:d4:b1:25:84:97:b7:fd:56:15:7a:f9:a2:00
Fingerprint (SHA1): b4:35:d4:e1:11:9d:1c:66:90:a7:49:eb:b3:94:bd:63:7b:a7:82:b7
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TÜRKTRUST Elektronik Sertifika Hizmet Salaycs"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\264\065\324\341\021\235\034\146\220\247\111\353\263\224\275\143
\173\247\202\267
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\067\245\156\324\261\045\204\227\267\375\126\025\172\371\242\000
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\276\061\077\060\075\006\003\125\004\003\014\066\124\303
\234\122\113\124\122\125\123\124\040\105\154\145\153\164\162\157
\156\151\153\040\123\145\162\164\151\146\151\153\141\040\110\151
\172\155\145\164\040\123\141\304\237\154\141\171\304\261\143\304
\261\163\304\261\061\013\060\011\006\003\125\004\006\023\002\124
\122\061\017\060\015\006\003\125\004\007\014\006\101\156\153\141
\162\141\061\135\060\133\006\003\125\004\012\014\124\124\303\234
\122\113\124\122\125\123\124\040\102\151\154\147\151\040\304\260
\154\145\164\151\305\237\151\155\040\166\145\040\102\151\154\151
\305\237\151\155\040\107\303\274\166\145\156\154\151\304\237\151
\040\110\151\172\155\145\164\154\145\162\151\040\101\056\305\236
\056\040\050\143\051\040\113\141\163\304\261\155\040\062\060\060
\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "A-Trust-nQual-03"
Issuer: CN=A-Trust-nQual-03,OU=A-Trust-nQual-03,O=A-Trust Ges. f. Sicherheitssysteme im elektr. Datenverkehr GmbH,C=AT
Serial Number: 93214 (0x16c1e)
Subject: CN=A-Trust-nQual-03,OU=A-Trust-nQual-03,O=A-Trust Ges. f. Sicherheitssysteme im elektr. Datenverkehr GmbH,C=AT
Not Valid Before: Wed Aug 17 22:00:00 2005
Not Valid After: Mon Aug 17 22:00:00 2015
Fingerprint (MD5): 49:63:ae:27:f4:d5:95:3d:d8:db:24:86:b8:9c:07:53
Fingerprint (SHA1): d3:c0:63:f2:19:ed:07:3e:34:ad:5d:75:0b:32:76:29:ff:d5:9a:f2
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "A-Trust-nQual-03"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\215\061\013\060\011\006\003\125\004\006\023\002\101\124
\061\110\060\106\006\003\125\004\012\014\077\101\055\124\162\165
\163\164\040\107\145\163\056\040\146\056\040\123\151\143\150\145
\162\150\145\151\164\163\163\171\163\164\145\155\145\040\151\155
\040\145\154\145\153\164\162\056\040\104\141\164\145\156\166\145
\162\153\145\150\162\040\107\155\142\110\061\031\060\027\006\003
\125\004\013\014\020\101\055\124\162\165\163\164\055\156\121\165
\141\154\055\060\063\061\031\060\027\006\003\125\004\003\014\020
\101\055\124\162\165\163\164\055\156\121\165\141\154\055\060\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\215\061\013\060\011\006\003\125\004\006\023\002\101\124
\061\110\060\106\006\003\125\004\012\014\077\101\055\124\162\165
\163\164\040\107\145\163\056\040\146\056\040\123\151\143\150\145
\162\150\145\151\164\163\163\171\163\164\145\155\145\040\151\155
\040\145\154\145\153\164\162\056\040\104\141\164\145\156\166\145
\162\153\145\150\162\040\107\155\142\110\061\031\060\027\006\003
\125\004\013\014\020\101\055\124\162\165\163\164\055\156\121\165
\141\154\055\060\063\061\031\060\027\006\003\125\004\003\014\020
\101\055\124\162\165\163\164\055\156\121\165\141\154\055\060\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\001\154\036
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\317\060\202\002\267\240\003\002\001\002\002\003\001
\154\036\060\015\006\011\052\206\110\206\367\015\001\001\005\005

\000\060\201\215\061\013\060\011\006\003\125\004\006\023\002\101
\124\061\110\060\106\006\003\125\004\012\014\077\101\055\124\162
\165\163\164\040\107\145\163\056\040\146\056\040\123\151\143\150
\145\162\150\145\151\164\163\163\171\163\164\145\155\145\040\151
\155\040\145\154\145\153\164\162\056\040\104\141\164\145\156\166
\145\162\153\145\150\162\040\107\155\142\110\061\031\060\027\006
\003\125\004\013\014\020\101\055\124\162\165\163\164\055\156\121
\165\141\154\055\060\063\061\031\060\027\006\003\125\004\003\014
\020\101\055\124\162\165\163\164\055\156\121\165\141\154\055\060
\063\060\036\027\015\060\065\060\070\061\067\062\062\060\060\060
\060\132\027\015\061\065\060\070\061\067\062\062\060\060\060\060
\132\060\201\215\061\013\060\011\006\003\125\004\006\023\002\101
\124\061\110\060\106\006\003\125\004\012\014\077\101\055\124\162
\165\163\164\040\107\145\163\056\040\146\056\040\123\151\143\150
\145\162\150\145\151\164\163\163\171\163\164\145\155\145\040\151
\155\040\145\154\145\153\164\162\056\040\104\141\164\145\156\166
\145\162\153\145\150\162\040\107\155\142\110\061\031\060\027\006
\003\125\004\013\014\020\101\055\124\162\165\163\164\055\156\121
\165\141\154\055\060\063\061\031\060\027\006\003\125\004\003\014
\020\101\055\124\162\165\163\164\055\156\121\165\141\154\055\060
\063\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001
\001\000\255\075\141\156\003\363\220\073\300\101\013\204\200\315
\354\052\243\235\153\273\156\302\102\204\367\121\024\341\240\250
\055\121\243\121\362\336\043\360\064\104\377\224\353\314\005\043
\225\100\271\007\170\245\045\366\012\275\105\206\350\331\275\300
\004\216\205\104\141\357\177\247\311\372\301\045\314\205\054\143
\077\005\140\163\111\005\340\140\170\225\020\113\334\371\021\131
\316\161\177\100\233\212\252\044\337\013\102\342\333\126\274\112
\322\245\014\233\267\103\076\335\203\323\046\020\002\317\352\043
\304\111\116\345\323\351\264\210\253\014\256\142\222\324\145\207
\331\152\327\364\205\237\344\063\042\045\245\345\310\063\272\303
\307\101\334\137\306\152\314\000\016\155\062\250\266\207\066\000
\142\167\233\036\037\064\313\220\074\170\210\164\005\353\171\365
\223\161\145\312\235\307\153\030\055\075\134\116\347\325\370\077
\061\175\217\207\354\012\042\057\043\351\376\273\175\311\340\364
\354\353\174\304\260\303\055\142\265\232\161\326\261\152\350\354
\331\355\325\162\354\276\127\001\316\005\125\237\336\321\140\210
\020\263\002\003\001\000\001\243\066\060\064\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\021\006\003
\125\035\016\004\012\004\010\104\152\225\147\125\171\021\117\060
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202
\001\001\000\125\324\124\321\131\110\134\263\223\205\252\277\143
\057\344\200\316\064\243\064\142\076\366\330\356\147\210\061\004
\003\157\013\324\007\373\116\165\017\323\056\323\300\027\307\306
\050\354\006\015\021\044\016\016\245\135\277\214\262\023\226\161
\334\324\316\016\015\012\150\062\154\271\101\061\031\253\261\007

\173\115\230\323\134\260\321\360\247\102\240\265\304\216\257\376
\361\077\364\357\117\106\000\166\353\002\373\371\235\322\100\226
\307\210\072\270\237\021\171\363\200\145\250\275\037\323\170\201
\240\121\114\067\264\246\135\045\160\321\146\311\150\371\056\021
\024\150\361\124\230\010\254\046\222\017\336\211\236\324\372\263
\171\053\322\243\171\324\354\213\254\207\123\150\102\114\121\121
\164\036\033\047\056\343\365\037\051\164\115\355\257\367\341\222
\231\201\350\276\072\307\027\120\366\267\306\374\233\260\212\153
\326\210\003\221\217\006\167\072\205\002\335\230\325\103\170\077
\306\060\025\254\233\153\313\127\267\211\121\213\072\350\311\204
\014\333\261\120\040\012\032\112\272\152\032\275\354\033\310\305
\204\232\315
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "A-Trust-nQual-03"
Issuer: CN=A-Trust-nQual-03,OU=A-Trust-nQual-03,O=A-Trust Ges. f. Sicherheitssysteme im elektr. Datenverkehr GmbH,C=AT
Serial Number: 93214 (0x16c1e)
Subject: CN=A-Trust-nQual-03,OU=A-Trust-nQual-03,O=A-Trust Ges. f. Sicherheitssysteme im elektr. Datenverkehr GmbH,C=AT
Not Valid Before: Wed Aug 17 22:00:00 2005
Not Valid After: Mon Aug 17 22:00:00 2015
Fingerprint (MD5): 49:63:ae:27:f4:d5:95:3d:d8:db:24:86:b8:9c:07:53
Fingerprint (SHA1): d3:c0:63:f2:19:ed:07:3e:34:ad:5d:75:0b:32:76:29:ff:d5:9a:f2
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "A-Trust-nQual-03"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\323\300\143\362\031\355\007\076\064\255\135\165\013\062\166\051
\377\325\232\362
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\111\143\256\047\364\325\225\075\330\333\044\206\270\234\007\123
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\215\061\013\060\011\006\003\125\004\006\023\002\101\124
\061\110\060\106\006\003\125\004\012\014\077\101\055\124\162\165
\163\164\040\107\145\163\056\040\146\056\040\123\151\143\150\145
\162\150\145\151\164\163\163\171\163\164\145\155\145\040\151\155
\040\145\154\145\153\164\162\056\040\104\141\164\145\156\166\145
\162\153\145\150\162\040\107\155\142\110\061\031\060\027\006\003
\125\004\013\014\020\101\055\124\162\165\163\164\055\156\121\165

\141\154\055\060\063\061\031\060\027\006\003\125\004\003\014\020
\101\055\124\162\165\163\164\055\156\121\165\141\154\055\060\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\001\154\036
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "CertRSA01"
Issuer: CN=CertRSA01,OU=ROOTCA,O=KISA,C=KR
Serial Number: 3 (0x3)
Subject: CN=CertRSA01,OU=ROOTCA,O=KISA,C=KR
Not Valid Before: Thu Mar 02 15:00:00 2000
Not Valid After: Wed Mar 03 14:59:59 2010
Fingerprint (MD5): 9f:6c:1f:0f:07:ac:19:21:f9:15:bb:d5:c7:2c:d8:2a
Fingerprint (SHA1): f5:c2:7c:f5:ff:f3:02:9a:cf:1a:1a:4b:ec:7e:e1:96:4c:77:d7:84
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CertRSA01"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\101\061\013\060\011\006\003\125\004\006\023\002\113\122\061
\015\060\013\006\003\125\004\012\023\004\113\111\123\101\061\017
\060\015\006\003\125\004\013\023\006\122\117\117\124\103\101\061
\022\060\020\006\003\125\004\003\023\011\103\145\162\164\122\123
\101\060\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\101\061\013\060\011\006\003\125\004\006\023\002\113\122\061
\015\060\013\006\003\125\004\012\023\004\113\111\123\101\061\017
\060\015\006\003\125\004\013\023\006\122\117\117\124\103\101\061
\022\060\020\006\003\125\004\003\023\011\103\145\162\164\122\123
\101\060\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\003
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\112\060\202\003\062\240\003\002\001\002\002\001\003
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\101\061\013\060\011\006\003\125\004\006\023\002\113\122\061\015

\060\013\006\003\125\004\012\023\004\113\111\123\101\061\017\060
\015\006\003\125\004\013\023\006\122\117\117\124\103\101\061\022
\060\020\006\003\125\004\003\023\011\103\145\162\164\122\123\101
\060\061\060\036\027\015\060\060\060\063\060\062\061\065\060\060
\060\060\132\027\015\061\060\060\063\060\063\061\064\065\071\065
\071\132\060\101\061\013\060\011\006\003\125\004\006\023\002\113
\122\061\015\060\013\006\003\125\004\012\023\004\113\111\123\101
\061\017\060\015\006\003\125\004\013\023\006\122\117\117\124\103
\101\061\022\060\020\006\003\125\004\003\023\011\103\145\162\164
\122\123\101\060\061\060\202\001\042\060\015\006\011\052\206\110
\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001
\012\002\202\001\001\000\316\317\355\341\350\126\035\311\113\062
\140\233\052\267\227\207\141\006\064\150\313\027\256\300\170\305
\306\021\133\113\174\227\253\271\154\116\057\000\366\123\054\351
\341\234\132\220\152\075\172\070\070\065\132\255\034\012\131\205
\273\365\143\147\011\023\351\046\117\330\074\135\357\123\102\336
\105\142\344\076\315\162\244\372\263\300\340\037\216\224\342\145
\055\125\301\025\222\054\157\363\103\324\065\005\005\064\067\240
\054\264\163\133\361\047\046\224\232\365\272\022\314\372\170\065
\242\255\124\325\146\217\021\352\246\031\115\327\023\065\124\173
\221\227\003\107\143\260\251\017\150\276\322\364\236\352\215\265
\173\104\265\271\055\070\311\000\343\345\277\306\165\211\003\231
\377\214\113\010\017\302\005\061\244\115\027\021\316\303\165\017
\153\260\137\320\254\206\255\175\351\240\210\271\306\022\326\300
\072\054\322\157\154\047\035\252\377\105\233\306\003\020\002\151
\371\006\357\237\042\240\070\070\202\310\044\021\254\241\236\217
\115\276\170\137\337\272\077\203\003\175\121\243\370\307\135\250
\221\150\037\036\162\335\002\003\001\000\001\243\202\001\113\060
\202\001\107\060\035\006\003\125\035\016\004\026\004\024\377\212
\106\162\063\130\350\110\210\042\252\027\150\332\026\110\011\213
\065\221\060\037\006\003\125\035\043\004\030\060\026\200\024\377
\212\106\162\063\130\350\110\210\042\252\027\150\332\026\110\011
\213\065\221\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\006\060\025\006\003\125\035\040\004\016\060\014\060\012
\006\010\052\203\032\214\232\104\002\001\060\060\006\003\125\035
\021\004\051\060\047\244\045\060\043\061\041\060\037\006\003\125
\004\003\014\030\355\225\234\352\265\255\354\240\225\353\263\264
\353\263\264\355\230\270\354\204\274\355\204\260\060\060\006\003
\125\035\022\004\051\060\047\244\045\060\043\061\041\060\037\006
\003\125\004\003\014\030\355\225\234\352\265\255\354\240\225\353
\263\264\353\263\264\355\230\270\354\204\274\355\204\260\060\022
\006\003\125\035\023\001\001\377\004\010\060\006\001\001\377\002
\001\001\060\014\006\003\125\035\044\004\005\060\003\200\001\000
\060\130\006\003\125\035\037\004\121\060\117\060\115\240\113\240
\111\206\107\154\144\141\160\072\057\057\144\151\162\163\171\163
\056\162\157\157\164\143\141\056\157\162\056\153\162\072\063\070
\071\057\103\116\075\122\117\117\124\055\122\123\101\055\103\122
\114\054\040\117\125\075\122\117\117\124\103\101\054\040\117\075

\113\111\123\101\054\040\103\075\113\122\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\003\202\001\001\000\054\074
\244\043\154\102\370\211\050\107\120\174\343\346\347\043\055\066
\066\306\210\052\221\230\373\036\174\017\253\235\021\255\165\254
\344\134\153\061\021\164\063\142\157\324\006\221\021\306\162\164
\230\057\260\142\373\064\051\257\024\362\306\144\340\277\253\313
\127\271\141\234\363\142\115\063\171\327\146\052\121\314\334\000
\124\005\001\126\176\214\266\216\023\364\055\231\121\341\232\170
\274\125\121\112\111\332\133\013\202\373\103\075\332\315\223\011
\313\265\243\011\303\260\175\131\110\242\233\330\373\067\303\157
\016\067\352\005\227\277\322\156\241\310\350\303\373\363\255\062
\310\125\222\064\102\340\324\022\345\324\355\041\212\347\230\222
\377\134\327\245\146\252\277\361\072\174\055\302\340\125\065\005
\332\221\152\007\123\321\205\261\224\307\046\015\033\150\051\010
\301\041\223\017\153\242\140\270\123\257\104\331\144\135\323\156
\233\204\022\170\061\030\332\163\277\254\044\370\253\055\277\016
\176\272\173\011\312\132\211\250\054\122\314\114\164\255\331\137
\263\267\326\005\367\101\137\161\345\146\031\006\045\171
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "CertRSA01"
Issuer: CN=CertRSA01,OU=ROOTCA,O=KISA,C=KR
Serial Number: 3 (0x3)
Subject: CN=CertRSA01,OU=ROOTCA,O=KISA,C=KR
Not Valid Before: Thu Mar 02 15:00:00 2000
Not Valid After: Wed Mar 03 14:59:59 2010
Fingerprint (MD5): 9f:6c:1f:0f:07:ac:19:21:f9:15:bb:d5:c7:2c:d8:2a
Fingerprint (SHA1): f5:c2:7c:f5:ff:f3:02:9a:cf:1a:1a:4b:ec:7e:e1:96:4c:77:d7:84
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CertRSA01"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\365\302\174\365\377\363\002\232\317\032\032\113\354\176\341\226
\114\167\327\204
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\237\154\037\017\007\254\031\041\371\025\273\325\307\054\330\052
END
CKA_ISSUER MULTILINE_OCTAL
\060\101\061\013\060\011\006\003\125\004\006\023\002\113\122\061
\015\060\013\006\003\125\004\012\023\004\113\111\123\101\061\017
\060\015\006\003\125\004\013\023\006\122\117\117\124\103\101\061

\022\060\020\006\003\125\004\003\023\011\103\145\162\164\122\123
\101\060\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\003
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "KISA RootCA 1"
Issuer: CN=KISA RootCA 1,OU=Korea Certification Authority Central,O=KISA,C=KR
Serial Number: 4 (0x4)
Subject: CN=KISA RootCA 1,OU=Korea Certification Authority Central,O=KISA,C=KR
Not Valid Before: Wed Aug 24 08:05:46 2005
Not Valid After: Sun Aug 24 08:05:46 2025
Fingerprint (MD5): 68:9b:17:c6:54:e0:e0:e0:99:55:16:42:f7:5a:86:d8
Fingerprint (SHA1): 02:72:68:29:3e:5f:5d:17:aa:a4:b3:c3:e6:36:1e:1f:92:57:5e:aa
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "KISA RootCA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\144\061\013\060\011\006\003\125\004\006\023\002\113\122\061
\015\060\013\006\003\125\004\012\014\004\113\111\123\101\061\056
\060\054\006\003\125\004\013\014\045\113\157\162\145\141\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\040\103\145\156\164\162\141\154\061\026
\060\024\006\003\125\004\003\014\015\113\111\123\101\040\122\157
\157\164\103\101\040\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\144\061\013\060\011\006\003\125\004\006\023\002\113\122\061
\015\060\013\006\003\125\004\012\014\004\113\111\123\101\061\056
\060\054\006\003\125\004\013\014\045\113\157\162\145\141\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\040\103\145\156\164\162\141\154\061\026
\060\024\006\003\125\004\003\014\015\113\111\123\101\040\122\157
\157\164\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\004
END

CKA_VALUE MULTILINE_OCTAL
\060\202\003\163\060\202\002\133\240\003\002\001\002\002\001\004
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\144\061\013\060\011\006\003\125\004\006\023\002\113\122\061\015
\060\013\006\003\125\004\012\014\004\113\111\123\101\061\056\060
\054\006\003\125\004\013\014\045\113\157\162\145\141\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171\040\103\145\156\164\162\141\154\061\026\060
\024\006\003\125\004\003\014\015\113\111\123\101\040\122\157\157
\164\103\101\040\061\060\036\027\015\060\065\060\070\062\064\060
\070\060\065\064\066\132\027\015\062\065\060\070\062\064\060\070
\060\065\064\066\132\060\144\061\013\060\011\006\003\125\004\006
\023\002\113\122\061\015\060\013\006\003\125\004\012\014\004\113
\111\123\101\061\056\060\054\006\003\125\004\013\014\045\113\157
\162\145\141\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\040\103\145\156\164
\162\141\154\061\026\060\024\006\003\125\004\003\014\015\113\111
\123\101\040\122\157\157\164\103\101\040\061\060\202\001\040\060
\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202
\001\015\000\060\202\001\010\002\202\001\001\000\274\004\344\372
\023\071\360\064\226\040\153\154\150\273\372\333\167\377\047\367
\254\354\057\347\375\360\177\155\157\214\052\315\045\011\133\044
\364\241\150\374\050\354\311\045\342\254\355\336\310\063\204\365
\260\245\011\072\247\261\107\110\305\314\117\214\171\234\371\006
\127\175\335\356\070\366\317\024\262\234\352\323\300\135\167\142
\360\107\015\271\032\100\123\134\144\160\257\010\132\300\367\317
\165\371\154\215\144\050\036\040\376\267\033\031\323\132\146\203
\162\342\260\233\275\323\045\025\015\062\157\144\067\224\205\106
\310\162\276\167\325\156\037\050\057\307\151\355\347\203\211\063
\130\323\336\240\277\100\350\103\120\356\334\115\153\274\245\352
\246\310\141\216\365\303\144\257\006\025\334\051\213\077\165\214
\274\161\104\333\374\255\265\027\035\155\211\203\317\306\063\275
\277\105\242\376\012\237\243\021\137\017\271\037\234\032\302\106
\314\234\050\146\237\160\046\074\056\337\252\200\376\214\305\004
\011\045\117\315\223\107\074\067\352\002\147\222\376\374\042\044
\134\254\322\054\340\134\001\063\212\301\031\333\002\001\003\243
\062\060\060\060\035\006\003\125\035\016\004\026\004\024\277\266
\047\330\003\132\166\145\114\141\001\101\126\061\345\213\173\072
\331\314\060\017\006\003\125\035\023\001\001\377\004\005\060\003
\001\001\377\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\003\202\001\001\000\023\257\121\013\336\212\152\133\346
\232\012\310\261\220\112\116\241\002\235\314\210\322\253\146\275
\075\354\273\261\102\225\152\262\134\132\377\241\143\144\226\251
\150\025\177\045\136\212\370\244\163\301\200\212\205\012\016\122
\350\062\347\105\370\116\145\200\221\231\164\103\345\105\235\111
\052\360\224\225\335\351\341\060\322\023\156\311\116\261\167\345
\004\317\255\132\036\224\011\132\327\074\010\034\256\172\351\024
\062\301\105\255\322\046\110\162\254\250\101\332\360\041\207\071

\136\337\374\144\377\141\164\052\234\331\233\213\137\302\067\223
\330\243\067\057\073\223\153\262\033\007\247\177\011\120\357\323
\072\276\041\153\212\220\073\047\112\121\116\153\236\234\207\235
\370\170\220\061\355\021\047\306\250\131\276\374\030\013\373\216
\176\056\102\341\355\347\011\041\275\271\023\305\126\147\364\046
\246\102\103\220\104\124\264\161\233\166\344\032\022\254\032\050
\000\337\233\301\325\370\333\134\243\370\222\261\275\264\324\371
\120\331\000\002\117\333\203\320\021\117\244\102\126\141\072\176
\023\062\323\204\037\311\272
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "KISA RootCA 1"
Issuer: CN=KISA RootCA 1,OU=Korea Certification Authority Central,O=KISA,C=KR
Serial Number: 4 (0x4)
Subject: CN=KISA RootCA 1,OU=Korea Certification Authority Central,O=KISA,C=KR
Not Valid Before: Wed Aug 24 08:05:46 2005
Not Valid After: Sun Aug 24 08:05:46 2025
Fingerprint (MD5): 68:9b:17:c6:54:e0:e0:e0:99:55:16:42:f7:5a:86:d8
Fingerprint (SHA1): 02:72:68:29:3e:5f:5d:17:aa:a4:b3:c3:e6:36:1e:1f:92:57:5e:aa
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "KISA RootCA 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\002\162\150\051\076\137\135\027\252\244\263\303\346\066\036\037
\222\127\136\252
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\150\233\027\306\124\340\340\340\231\125\026\102\367\132\206\330
END
CKA_ISSUER MULTILINE_OCTAL
\060\144\061\013\060\011\006\003\125\004\006\023\002\113\122\061
\015\060\013\006\003\125\004\012\014\004\113\111\123\101\061\056
\060\054\006\003\125\004\013\014\045\113\157\162\145\141\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\040\103\145\156\164\162\141\154\061\026
\060\024\006\003\125\004\003\014\015\113\111\123\101\040\122\157
\157\164\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\004
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "KISA RootCA 3"
Issuer: CN=KISA RootCA 3,OU=Korea Certification Authority Central,O=KISA,C=KR
Serial Number: 2 (0x2)
Subject: CN=KISA RootCA 3,OU=Korea Certification Authority Central,O=KISA,C=KR
Not Valid Before: Fri Nov 19 06:39:51 2004
Not Valid After: Wed Nov 19 06:39:51 2014
Fingerprint (MD5): 93:eb:36:13:0b:c1:54:f1:3e:75:05:e5:e0:1c:d4:37
Fingerprint (SHA1): 5f:4e:1f:cf:31:b7:91:3b:85:0b:54:f6:e5:ff:50:1a:2b:6f:c6:cf
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "KISA RootCA 3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\144\061\013\060\011\006\003\125\004\006\023\002\113\122\061
\015\060\013\006\003\125\004\012\023\004\113\111\123\101\061\056
\060\054\006\003\125\004\013\023\045\113\157\162\145\141\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\040\103\145\156\164\162\141\154\061\026
\060\024\006\003\125\004\003\023\015\113\111\123\101\040\122\157
\157\164\103\101\040\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\144\061\013\060\011\006\003\125\004\006\023\002\113\122\061
\015\060\013\006\003\125\004\012\023\004\113\111\123\101\061\056
\060\054\006\003\125\004\013\023\045\113\157\162\145\141\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\040\103\145\156\164\162\141\154\061\026
\060\024\006\003\125\004\003\023\015\113\111\123\101\040\122\157
\157\164\103\101\040\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\002
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\122\060\202\004\072\240\003\002\001\002\002\001\002
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\144\061\013\060\011\006\003\125\004\006\023\002\113\122\061\015
\060\013\006\003\125\004\012\023\004\113\111\123\101\061\056\060
\054\006\003\125\004\013\023\045\113\157\162\145\141\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150

\157\162\151\164\171\040\103\145\156\164\162\141\154\061\026\060
\024\006\003\125\004\003\023\015\113\111\123\101\040\122\157\157
\164\103\101\040\063\060\036\027\015\060\064\061\061\061\071\060
\066\063\071\065\061\132\027\015\061\064\061\061\061\071\060\066
\063\071\065\061\132\060\144\061\013\060\011\006\003\125\004\006
\023\002\113\122\061\015\060\013\006\003\125\004\012\023\004\113
\111\123\101\061\056\060\054\006\003\125\004\013\023\045\113\157
\162\145\141\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\040\103\145\156\164
\162\141\154\061\026\060\024\006\003\125\004\003\023\015\113\111
\123\101\040\122\157\157\164\103\101\040\063\060\202\001\040\060
\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202
\001\015\000\060\202\001\010\002\202\001\001\000\336\272\355\027
\145\256\321\275\112\075\254\333\200\162\314\130\341\347\341\223
\332\314\060\172\317\357\013\256\055\247\103\253\277\247\102\317
\010\126\010\244\107\035\175\372\206\357\330\060\227\046\064\141
\074\200\016\370\324\353\237\374\042\060\033\241\155\076\343\114
\322\125\116\026\100\067\302\366\007\156\333\007\265\245\214\226
\201\342\233\134\176\224\141\310\316\204\074\261\372\000\346\162
\323\011\205\167\351\334\136\041\117\264\344\116\364\342\027\253
\120\257\034\377\241\071\130\165\133\022\262\226\271\215\360\160
\142\110\133\126\050\052\245\207\221\066\271\036\044\365\271\272
\173\266\122\121\133\027\132\140\005\154\234\302\346\306\214\076
\371\352\335\074\214\377\211\336\103\160\254\035\270\361\165\315
\070\312\123\015\107\150\152\306\074\030\312\275\341\264\276\016
\364\320\343\322\023\372\260\121\021\021\324\101\253\350\364\071
\216\341\064\204\117\013\223\252\152\070\374\345\306\170\107\256
\166\027\372\241\200\067\006\000\025\010\375\153\043\216\372\162
\015\225\326\113\142\261\150\302\335\064\233\135\002\001\003\243
\202\002\017\060\202\002\013\060\037\006\003\125\035\043\004\030
\060\026\200\024\217\201\360\332\246\315\164\074\276\146\364\025
\153\106\244\376\006\050\314\252\060\035\006\003\125\035\016\004
\026\004\024\217\201\360\332\246\315\164\074\276\146\364\025\153
\106\244\376\006\050\314\252\060\016\006\003\125\035\017\001\001
\377\004\004\003\002\001\006\060\202\001\056\006\003\125\035\040
\004\202\001\045\060\202\001\041\060\202\001\035\006\004\125\035
\040\000\060\202\001\023\060\060\006\010\053\006\001\005\005\007
\002\001\026\044\150\164\164\160\072\057\057\167\167\167\056\162
\157\157\164\143\141\056\157\162\056\153\162\057\162\143\141\057
\143\160\163\056\150\164\155\154\060\201\336\006\010\053\006\001
\005\005\007\002\002\060\201\321\036\201\316\307\164\000\040\307
\170\311\235\301\034\262\224\000\040\254\365\307\170\307\170\311
\235\301\034\307\205\262\310\262\344\000\050\000\124\000\150\000
\151\000\163\000\040\000\143\000\145\000\162\000\164\000\151\000
\146\000\151\000\143\000\141\000\164\000\145\000\040\000\151\000
\163\000\040\000\141\000\143\000\143\000\162\000\145\000\144\000
\151\000\164\000\145\000\144\000\040\000\165\000\156\000\144\000
\145\000\162\000\040\000\105\000\154\000\145\000\143\000\164\000

\162\000\157\000\156\000\151\000\143\000\040\000\123\000\151\000
\147\000\156\000\141\000\164\000\165\000\162\000\145\000\040\000
\101\000\143\000\164\000\040\000\157\000\146\000\040\000\164\000
\150\000\145\000\040\000\122\000\145\000\160\000\165\000\142\000
\154\000\151\000\143\000\040\000\157\000\146\000\040\000\113\000
\157\000\162\000\145\000\141\000\051\060\063\006\003\125\035\021
\004\054\060\052\244\050\060\046\061\044\060\042\006\003\125\004
\003\014\033\355\225\234\352\265\255\354\240\225\353\263\264\353
\263\264\355\230\270\354\247\204\355\235\245\354\233\220\060\063
\006\003\125\035\022\004\054\060\052\244\050\060\046\061\044\060
\042\006\003\125\004\003\014\033\355\225\234\352\265\255\354\240
\225\353\263\264\353\263\264\355\230\270\354\247\204\355\235\245
\354\233\220\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\014\006\003\125\035\044\004\005\060\003\200
\001\000\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\000\003\202\001\001\000\317\326\367\016\375\260\214\156\005\025
\216\250\134\053\262\132\321\036\127\246\136\030\252\202\021\010
\374\231\267\133\247\343\310\322\242\323\371\044\064\367\343\344
\256\211\124\107\323\151\111\311\200\301\021\353\342\051\307\366
\006\213\137\272\342\136\317\253\303\316\317\356\222\045\334\237
\071\036\016\003\364\336\220\133\241\160\231\134\307\163\116\311
\244\165\111\173\045\241\237\202\222\215\115\354\141\305\014\062
\247\307\070\070\200\125\072\052\203\035\234\144\171\271\015\247
\065\112\150\357\217\377\005\330\272\116\126\141\330\370\112\160
\230\010\226\223\330\140\307\072\354\137\237\035\053\065\117\110
\024\241\232\273\157\356\322\003\206\123\361\020\307\007\124\142
\136\066\216\342\034\053\035\027\115\346\365\132\357\212\272\202
\350\167\331\050\021\176\067\207\112\224\012\311\100\351\065\245
\072\373\144\076\362\137\026\172\363\166\327\316\356\077\104\035
\105\252\137\021\252\123\034\072\037\122\121\142\124\017\243\220
\065\317\115\157\272\307\276\054\011\361\065\370\001\273\044\335
\060\274\110\017\356\331
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "KISA RootCA 3"
Issuer: CN=KISA RootCA 3,OU=Korea Certification Authority Central,O=KISA,C=KR
Serial Number: 2 (0x2)
Subject: CN=KISA RootCA 3,OU=Korea Certification Authority Central,O=KISA,C=KR
Not Valid Before: Fri Nov 19 06:39:51 2004
Not Valid After: Wed Nov 19 06:39:51 2014
Fingerprint (MD5): 93:eb:36:13:0b:c1:54:f1:3e:75:05:e5:e0:1c:d4:37
Fingerprint (SHA1): 5f:4e:1f:cf:31:b7:91:3b:85:0b:54:f6:e5:ff:50:1a:2b:6f:c6:cf
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "KISA RootCA 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\137\116\037\317\061\267\221\073\205\013\124\366\345\377\120\032
\053\157\306\317
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\223\353\066\023\013\301\124\361\076\165\005\345\340\034\324\067
END
CKA_ISSUER MULTILINE_OCTAL
\060\144\061\013\060\011\006\003\125\004\006\023\002\113\122\061
\015\060\013\006\003\125\004\012\023\004\113\111\123\101\061\056
\060\054\006\003\125\004\013\023\045\113\157\162\145\141\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\040\103\145\156\164\162\141\154\061\026
\060\024\006\003\125\004\003\023\015\113\111\123\101\040\122\157
\157\164\103\101\040\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "NetLock Minositett Kozjegyzoi (Class QA) Tanusitvanykiado"
Issuer: 1.2.840.113549.1.9.1=info@netlock.hu,CN=NetLock Minositett Kozjegyzoi (Class QA)
Tanusitvanykiado,OU=Tanusitvanykiadok,O=NetLock Halozatbiztonsagi Kft.,L=Budapest,C=HU
Serial Number: 123 (0x7b)
Subject: 1.2.840.113549.1.9.1=info@netlock.hu,CN=NetLock Minositett Kozjegyzoi (Class QA)
Tanusitvanykiado,OU=Tanusitvanykiadok,O=NetLock Halozatbiztonsagi Kft.,L=Budapest,C=HU
Not Valid Before: Sun Mar 30 01:47:11 2003
Not Valid After: Thu Dec 15 01:47:11 2022
Fingerprint (MD5): d4:80:65:68:24:f9:89:22:28:db:f5:a4:9a:17:8f:14
Fingerprint (SHA1): 01:68:97:e1:a0:b8:f2:c3:b1:34:66:5c:20:a7:27:b7:a1:58:e2:8f
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NetLock Minositett Kozjegyzoi (Class QA) Tanusitvanykiado"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\311\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\023\010\102\165\144\141\160
\145\163\164\061\047\060\045\006\003\125\004\012\023\036\116\145

\164\114\157\143\153\040\110\141\154\157\172\141\164\142\151\172
\164\157\156\163\141\147\151\040\113\146\164\056\061\032\060\030
\006\003\125\004\013\023\021\124\141\156\165\163\151\164\166\141
\156\171\153\151\141\144\157\153\061\102\060\100\006\003\125\004
\003\023\071\116\145\164\114\157\143\153\040\115\151\156\157\163
\151\164\145\164\164\040\113\157\172\152\145\147\171\172\157\151
\040\050\103\154\141\163\163\040\121\101\051\040\124\141\156\165
\163\151\164\166\141\156\171\153\151\141\144\157\061\036\060\034
\006\011\052\206\110\206\367\015\001\011\001\026\017\151\156\146
\157\100\156\145\164\154\157\143\153\056\150\165
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\311\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\023\010\102\165\144\141\160
\145\163\164\061\047\060\045\006\003\125\004\012\023\036\116\145
\164\114\157\143\153\040\110\141\154\157\172\141\164\142\151\172
\164\157\156\163\141\147\151\040\113\146\164\056\061\032\060\030
\006\003\125\004\013\023\021\124\141\156\165\163\151\164\166\141
\156\171\153\151\141\144\157\153\061\102\060\100\006\003\125\004
\003\023\071\116\145\164\114\157\143\153\040\115\151\156\157\163
\151\164\145\164\164\040\113\157\172\152\145\147\171\172\157\151
\040\050\103\154\141\163\163\040\121\101\051\040\124\141\156\165
\163\151\164\166\141\156\171\153\151\141\144\157\061\036\060\034
\006\011\052\206\110\206\367\015\001\011\001\026\017\151\156\146
\157\100\156\145\164\154\157\143\153\056\150\165
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\173
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\321\060\202\005\271\240\003\002\001\002\002\001\173
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\201\311\061\013\060\011\006\003\125\004\006\023\002\110\125\061
\021\060\017\006\003\125\004\007\023\010\102\165\144\141\160\145
\163\164\061\047\060\045\006\003\125\004\012\023\036\116\145\164
\114\157\143\153\040\110\141\154\157\172\141\164\142\151\172\164
\157\156\163\141\147\151\040\113\146\164\056\061\032\060\030\006
\003\125\004\013\023\021\124\141\156\165\163\151\164\166\141\156
\171\153\151\141\144\157\153\061\102\060\100\006\003\125\004\003
\023\071\116\145\164\114\157\143\153\040\115\151\156\157\163\151
\164\145\164\164\040\113\157\172\152\145\147\171\172\157\151\040
\050\103\154\141\163\163\040\121\101\051\040\124\141\156\165\163
\151\164\166\141\156\171\153\151\141\144\157\061\036\060\034\006
\011\052\206\110\206\367\015\001\011\001\026\017\151\156\146\157
\100\156\145\164\154\157\143\153\056\150\165\060\036\027\015\060
\063\060\063\063\060\060\061\064\067\061\061\132\027\015\062\062
\061\062\061\065\060\061\064\067\061\061\132\060\201\311\061\013

\060\011\006\003\125\004\006\023\002\110\125\061\021\060\017\006
\003\125\004\007\023\010\102\165\144\141\160\145\163\164\061\047
\060\045\006\003\125\004\012\023\036\116\145\164\114\157\143\153
\040\110\141\154\157\172\141\164\142\151\172\164\157\156\163\141
\147\151\040\113\146\164\056\061\032\060\030\006\003\125\004\013
\023\021\124\141\156\165\163\151\164\166\141\156\171\153\151\141
\144\157\153\061\102\060\100\006\003\125\004\003\023\071\116\145
\164\114\157\143\153\040\115\151\156\157\163\151\164\145\164\164
\040\113\157\172\152\145\147\171\172\157\151\040\050\103\154\141
\163\163\040\121\101\051\040\124\141\156\165\163\151\164\166\141
\156\171\153\151\141\144\157\061\036\060\034\006\011\052\206\110
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\001\076\157\357\055\232\074\042\360\135\311\127\240\125\101\177
\362\103\136\130\202\123\061\145\316\036\362\046\272\000\124\036
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\334\270\133\233\355\133\071\324\137\142\260\247\216\174\146\070
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\253\352\354\022\021\241\030\005\062\151\321\014\054\032\075\045
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\141\156\165\163\151\164\166\141\156\171\040\141\040\116\145\164
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\151\162\141\163\040\152\157\147\150\141\164\141\163\040\145\162
\166\145\156\171\145\163\165\154\145\163\145\156\145\153\054\040
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\141\163\141\156\141\153\040\146\145\154\164\145\164\145\154\145

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\164\141\154\141\156\157\163\040\123\172\145\162\172\157\144\145
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\145\164\145\154\145\056\040\101\040\144\157\153\165\155\145\156
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\162\150\145\164\157\153\040\141\172\040\151\156\146\157\100\156
\145\164\154\157\143\153\056\156\145\164\040\145\055\155\141\151
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\151\145\144\040\103\120\123\040\141\166\141\151\154\141\142\154
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\050\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000
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\343\073\374\246\303\356\103\340\317\363\342\200\065\111\105\166
\002\342\343\057\005\305\361\052\347\300\101\063\306\266\233\320
\063\071\315\300\333\241\255\154\067\002\114\130\101\073\362\227
\222\306\110\250\315\345\212\071\211\141\371\122\227\351\275\366
\371\224\164\350\161\016\274\167\206\303\006\314\132\174\112\176
\064\120\060\056\373\177\062\232\215\075\363\040\133\370\152\312
\206\363\061\114\054\131\200\002\175\376\070\311\060\165\034\267
\125\343\274\237\272\250\155\204\050\005\165\263\213\015\300\221
\124\041\347\246\013\264\231\365\121\101\334\315\243\107\042\331
\307\001\201\304\334\107\117\046\352\037\355\333\315\015\230\364
\243\234\264\163\062\112\226\231\376\274\177\310\045\130\370\130
\363\166\146\211\124\244\246\076\304\120\134\272\211\030\202\165
\110\041\322\117\023\350\140\176\007\166\333\020\265\121\346\252
\271\150\252\315\366\235\220\165\022\352\070\032\312\104\350\267
\231\247\052\150\225\146\225\253\255\357\211\313\140\251\006\022
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END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "NetLock Minositett Kozjegyzoi (Class QA) Tanusitvanykiado"
Issuer: 1.2.840.113549.1.9.1=info@netlock.hu,CN=NetLock Minositett Kozjegyzoi (Class QA) Tanusitvanykiado,OU=Tanusitvanykiadok,O=NetLock Halozatbiztonsagi Kft.,L=Budapest,C=HU
Serial Number: 123 (0x7b)
Subject: 1.2.840.113549.1.9.1=info@netlock.hu,CN=NetLock Minositett Kozjegyzoi (Class QA) Tanusitvanykiado,OU=Tanusitvanykiadok,O=NetLock Halozatbiztonsagi Kft.,L=Budapest,C=HU
Not Valid Before: Sun Mar 30 01:47:11 2003
Not Valid After: Thu Dec 15 01:47:11 2022
Fingerprint (MD5): d4:80:65:68:24:f9:89:22:28:db:f5:a4:9a:17:8f:14
Fingerprint (SHA1): 01:68:97:e1:a0:b8:f2:c3:b1:34:66:5c:20:a7:27:b7:a1:58:e2:8f
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NetLock Minositett Kozjegyzoi (Class QA) Tanusitvanykiado"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\001\150\227\341\240\270\362\303\261\064\146\134\040\247\047\267
\241\130\342\217
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\324\200\145\150\044\371\211\042\050\333\365\244\232\027\217\024
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\311\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\023\010\102\165\144\141\160
\145\163\164\061\047\060\045\006\003\125\004\012\023\036\116\145
\164\114\157\143\153\040\110\141\154\157\172\141\164\142\151\172
\164\157\156\163\141\147\151\040\113\146\164\056\061\032\060\030
\006\003\125\004\013\023\021\124\141\156\165\163\151\164\166\141
\156\171\153\151\141\144\157\153\061\102\060\100\006\003\125\004
\003\023\071\116\145\164\114\157\143\153\040\115\151\156\157\163
\151\164\145\164\164\040\113\157\172\152\145\147\171\172\157\151
\040\050\103\154\141\163\163\040\121\101\051\040\124\141\156\165
\163\151\164\166\141\156\171\153\151\141\144\157\061\036\060\034
\006\011\052\206\110\206\367\015\001\011\001\026\017\151\156\146
\157\100\156\145\164\154\157\143\153\056\150\165
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\173
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "A-CERT ADVANCED"
Issuer: 1.2.840.113549.1.9.1=info@a-cert.at,CN=A-CERT ADVANCED,OU=A-CERT Certification Service,O=ARGE DATEN - Austrian Society for Data Protection,L=Vienna,ST=Austria,C=AT
Serial Number: 0 (0x0)
Subject: 1.2.840.113549.1.9.1=info@a-cert.at,CN=A-CERT ADVANCED,OU=A-CERT Certification Service,O=ARGE DATEN - Austrian Society for Data Protection,L=Vienna,ST=Austria,C=AT
Not Valid Before: Sat Oct 23 14:14:14 2004
Not Valid After: Sun Oct 23 14:14:14 2011
Fingerprint (MD5): b4:4a:db:e8:59:16:46:1e:5a:d8:6e:da:06:43:52:62
Fingerprint (SHA1): 29:64:b6:86:13:5b:5d:fd:dd:32:53:a8:9b:bc:24:d7:4b:08:c6:4d
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "A-CERT ADVANCED"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\314\061\013\060\011\006\003\125\004\006\023\002\101\124
\061\020\060\016\006\003\125\004\010\023\007\101\165\163\164\162
\151\141\061\017\060\015\006\003\125\004\007\023\006\126\151\145
\156\156\141\061\072\060\070\006\003\125\004\012\023\061\101\122
\107\105\040\104\101\124\105\116\040\055\040\101\165\163\164\162
\151\141\156\040\123\157\143\151\145\164\171\040\146\157\162\040
\104\141\164\141\040\120\162\157\164\145\143\164\151\157\156\061
\045\060\043\006\003\125\004\013\023\034\101\055\103\105\122\124
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123
\145\162\166\151\143\145\061\030\060\026\006\003\125\004\003\023
\017\101\055\103\105\122\124\040\101\104\126\101\116\103\105\104
\061\035\060\033\006\011\052\206\110\206\367\015\001\011\001\026
\016\151\156\146\157\100\141\055\143\145\162\164\056\141\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
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\061\020\060\016\006\003\125\004\010\023\007\101\165\163\164\162
\151\141\061\017\060\015\006\003\125\004\007\023\006\126\151\145
\156\156\141\061\072\060\070\006\003\125\004\012\023\061\101\122
\107\105\040\104\101\124\105\116\040\055\040\101\165\163\164\162
\151\141\156\040\123\157\143\151\145\164\171\040\146\157\162\040
\104\141\164\141\040\120\162\157\164\145\143\164\151\157\156\061
\045\060\043\006\003\125\004\013\023\034\101\055\103\105\122\124
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123
\145\162\166\151\143\145\061\030\060\026\006\003\125\004\003\023
\017\101\055\103\105\122\124\040\101\104\126\101\116\103\105\104
\061\035\060\033\006\011\052\206\110\206\367\015\001\011\001\026
\016\151\156\146\157\100\141\055\143\145\162\164\056\141\164
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
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\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\201\314\061\013\060\011\006\003\125\004\006\023\002\101\124\061
\020\060\016\006\003\125\004\010\023\007\101\165\163\164\162\151
\141\061\017\060\015\006\003\125\004\007\023\006\126\151\145\156
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\105\040\104\101\124\105\116\040\055\040\101\165\163\164\162\151
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\141\164\141\040\120\162\157\164\145\143\164\151\157\156\061\045
\060\043\006\003\125\004\013\023\034\101\055\103\105\122\124\040
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\162\166\151\143\145\061\030\060\026\006\003\125\004\003\023\017
\101\055\103\105\122\124\040\101\104\126\101\116\103\105\104\061
\035\060\033\006\011\052\206\110\206\367\015\001\011\001\026\016
\151\156\146\157\100\141\055\143\145\162\164\056\141\164\060\036
\027\015\060\064\061\060\062\063\061\064\061\064\061\064\132\027
\015\061\061\061\060\062\063\061\064\061\064\061\064\132\060\201
\314\061\013\060\011\006\003\125\004\006\023\002\101\124\061\020
\060\016\006\003\125\004\010\023\007\101\165\163\164\162\151\141
\061\017\060\015\006\003\125\004\007\023\006\126\151\145\156\156
\141\061\072\060\070\006\003\125\004\012\023\061\101\122\107\105
\040\104\101\124\105\116\040\055\040\101\165\163\164\162\151\141
\156\040\123\157\143\151\145\164\171\040\146\157\162\040\104\141
\164\141\040\120\162\157\164\145\143\164\151\157\156\061\045\060
\043\006\003\125\004\013\023\034\101\055\103\105\122\124\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145\162
\166\151\143\145\061\030\060\026\006\003\125\004\003\023\017\101
\055\103\105\122\124\040\101\104\126\101\116\103\105\104\061\035
\060\033\006\011\052\206\110\206\367\015\001\011\001\026\016\151
\156\146\157\100\141\055\143\145\162\164\056\141\164\060\202\001
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\227\043\057\246\235\376\201\140\246\312\371\001\371\223\256\375
\265\101\152\171\077\043\225\234\114\173\017\036\066\041\356\303
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\364\110\275\363\014\337\332\061\276\152\211\230\350\017\234\225
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\316\374\303\100\124\124\263\134\062\170\022\365\266\131\316\147
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\146\157\162\040\104\141\164\141\040\120\162\157\164\145\143\164
\151\157\156\061\045\060\043\006\003\125\004\013\023\034\101\055
\103\105\122\124\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\123\145\162\166\151\143\145\061\030\060\026\006\003
\125\004\003\023\017\101\055\103\105\122\124\040\101\104\126\101
\116\103\105\104\061\035\060\033\006\011\052\206\110\206\367\015
\001\011\001\026\016\151\156\146\157\100\141\055\143\145\162\164
\056\141\164\202\001\000\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\013\006\003\125\035\017\004\004
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\167\056\141\055\143\145\162\164\056\141\164\057\143\145\162\164
\151\146\151\143\141\164\145\055\160\157\154\151\143\171\056\150
\164\155\154\060\073\006\011\140\206\110\001\206\370\102\001\010
\004\056\026\054\150\164\164\160\072\057\057\167\167\167\056\141
\055\143\145\162\164\056\141\164\057\143\145\162\164\151\146\151
\143\141\164\145\055\160\157\154\151\143\171\056\150\164\155\154
\060\031\006\003\125\035\021\004\022\060\020\201\016\151\156\146
\157\100\141\055\143\145\162\164\056\141\164\060\057\006\003\125
\035\022\004\050\060\046\201\016\151\156\146\157\100\141\055\143
\145\162\164\056\141\164\206\024\150\164\164\160\072\057\057\167
\167\167\056\141\055\143\145\162\164\056\141\164\060\105\006\003
\125\035\037\004\076\060\074\060\072\240\070\240\066\206\064\150
\164\164\160\163\072\057\057\163\145\143\165\162\145\056\141\055
\143\145\162\164\056\141\164\057\143\147\151\055\142\151\156\057
\141\055\143\145\162\164\055\141\144\166\141\156\143\145\144\056

\143\147\151\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\003\202\001\001\000\045\365\042\370\037\164\155\253\275
\373\367\344\356\074\275\041\057\161\126\204\166\123\174\121\041
\101\035\154\367\045\020\050\316\014\357\150\033\160\036\110\312
\147\013\171\227\360\126\072\330\333\274\167\321\214\073\173\212
\071\101\021\314\116\072\263\102\325\367\362\060\174\007\255\172
\157\175\376\230\245\016\160\237\031\210\140\104\034\121\030\206
\034\312\253\270\105\364\132\113\203\066\004\212\301\347\354\201
\173\066\355\347\201\152\341\340\064\145\134\115\201\365\256\141
\356\375\234\213\244\274\116\310\224\066\074\054\300\324\074\326
\336\265\244\041\177\166\242\002\173\225\064\135\132\266\361\301
\102\365\134\150\247\306\171\332\103\276\076\377\055\051\043\322
\115\022\376\342\163\153\151\223\007\221\062\231\036\165\242\326
\232\300\265\372\212\337\051\067\233\262\016\275\150\306\202\307
\272\072\214\323\215\106\144\177\355\065\132\075\377\077\223\250
\071\331\301\331\365\205\243\102\373\251\333\146\371\255\154\106
\047\232\371\055\236\057\010\371\205\343\344\370\226\353\143\121
\200\032\376\121\256\101\070
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "A-CERT ADVANCED"
Issuer: 1.2.840.113549.1.9.1=info@a-cert.at,CN=A-CERT ADVANCED,OU=A-CERT Certification Service,O=ARGE DATEN - Austrian Society for Data Protection,L=Vienna,ST=Austria,C=AT
Serial Number: 0 (0x0)
Subject: 1.2.840.113549.1.9.1=info@a-cert.at,CN=A-CERT ADVANCED,OU=A-CERT Certification Service,O=ARGE DATEN - Austrian Society for Data Protection,L=Vienna,ST=Austria,C=AT
Not Valid Before: Sat Oct 23 14:14:14 2004
Not Valid After: Sun Oct 23 14:14:14 2011
Fingerprint (MD5): b4:4a:db:e8:59:16:46:1e:5a:d8:6e:da:06:43:52:62
Fingerprint (SHA1): 29:64:b6:86:13:5b:5d:fd:dd:32:53:a8:9b:bc:24:d7:4b:08:c6:4d
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "A-CERT ADVANCED"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\051\144\266\206\023\133\135\375\335\062\123\250\233\274\044\327
\113\010\306\115
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\264\112\333\350\131\026\106\036\132\330\156\332\006\103\122\142
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\314\061\013\060\011\006\003\125\004\006\023\002\101\124

\061\020\060\016\006\003\125\004\010\023\007\101\165\163\164\162
\151\141\061\017\060\015\006\003\125\004\007\023\006\126\151\145
\156\156\141\061\072\060\070\006\003\125\004\012\023\061\101\122
\107\105\040\104\101\124\105\116\040\055\040\101\165\163\164\162
\151\141\156\040\123\157\143\151\145\164\171\040\146\157\162\040
\104\141\164\141\040\120\162\157\164\145\143\164\151\157\156\061
\045\060\043\006\003\125\004\013\023\034\101\055\103\105\122\124
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123
\145\162\166\151\143\145\061\030\060\026\006\003\125\004\003\023
\017\101\055\103\105\122\124\040\101\104\126\101\116\103\105\104
\061\035\060\033\006\011\052\206\110\206\367\015\001\011\001\026
\016\151\156\146\157\100\141\055\143\145\162\164\056\141\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "A-Trust-Qual-01"
Issuer: CN=A-Trust-Qual-01,OU=A-Trust-Qual-01,O=A-Trust Ges. für Sicherheitssysteme im elektr. Datenverkehr GmbH,C=AT
Serial Number: 57923 (0xe243)
Subject: CN=A-Trust-Qual-01,OU=A-Trust-Qual-01,O=A-Trust Ges. für Sicherheitssysteme im elektr. Datenverkehr GmbH,C=AT
Not Valid Before: Tue Nov 30 23:00:00 2004
Not Valid After: Sun Nov 30 23:00:00 2014
Fingerprint (MD5): a7:71:fd:26:fc:3c:e5:40:f1:99:06:eb:c1:93:6d:e9
Fingerprint (SHA1): e6:19:d2:5b:38:0b:7b:13:fd:a3:3e:8a:58:cd:82:d8:a8:8e:05:15
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "A-Trust-Qual-01"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\317\061\013\060\011\006\003\125\004\006\023\002\101\124
\061\201\213\060\201\210\006\003\125\004\012\036\201\200\000\101
\000\055\000\124\000\162\000\165\000\163\000\164\000\040\000\107
\000\145\000\163\000\056\000\040\000\146\000\374\000\162\000\040
\000\123\000\151\000\143\000\150\000\145\000\162\000\150\000\145
\000\151\000\164\000\163\000\163\000\171\000\163\000\164\000\145
\000\155\000\145\000\040\000\151\000\155\000\040\000\145\000\154
\000\145\000\153\000\164\000\162\000\056\000\040\000\104\000\141
\000\164\000\145\000\156\000\166\000\145\000\162\000\153\000\145

\000\150\000\162\000\040\000\107\000\155\000\142\000\110\061\030
\060\026\006\003\125\004\013\023\017\101\055\124\162\165\163\164
\055\121\165\141\154\055\060\061\061\030\060\026\006\003\125\004
\003\023\017\101\055\124\162\165\163\164\055\121\165\141\154\055
\060\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\317\061\013\060\011\006\003\125\004\006\023\002\101\124
\061\201\213\060\201\210\006\003\125\004\012\036\201\200\000\101
\000\055\000\124\000\162\000\165\000\163\000\164\000\040\000\107
\000\145\000\163\000\056\000\040\000\146\000\374\000\162\000\040
\000\123\000\151\000\143\000\150\000\145\000\162\000\150\000\145
\000\151\000\164\000\163\000\163\000\171\000\163\000\164\000\145
\000\155\000\145\000\040\000\151\000\155\000\040\000\145\000\154
\000\145\000\153\000\164\000\162\000\056\000\040\000\104\000\141
\000\164\000\145\000\156\000\166\000\145\000\162\000\153\000\145
\000\150\000\162\000\040\000\107\000\155\000\142\000\110\061\030
\060\026\006\003\125\004\013\023\017\101\055\124\162\165\163\164
\055\121\165\141\154\055\060\061\061\030\060\026\006\003\125\004
\003\023\017\101\055\124\162\165\163\164\055\121\165\141\154\055
\060\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\000\342\103
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\123\060\202\003\073\240\003\002\001\002\002\003\000
\342\103\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\000\060\201\317\061\013\060\011\006\003\125\004\006\023\002\101
\124\061\201\213\060\201\210\006\003\125\004\012\036\201\200\000
\101\000\055\000\124\000\162\000\165\000\163\000\164\000\040\000
\107\000\145\000\163\000\056\000\040\000\146\000\374\000\162\000
\040\000\123\000\151\000\143\000\150\000\145\000\162\000\150\000
\145\000\151\000\164\000\163\000\163\000\171\000\163\000\164\000
\145\000\155\000\145\000\040\000\151\000\155\000\040\000\145\000
\154\000\145\000\153\000\164\000\162\000\056\000\040\000\104\000
\141\000\164\000\145\000\156\000\166\000\145\000\162\000\153\000
\145\000\150\000\162\000\040\000\107\000\155\000\142\000\110\061
\030\060\026\006\003\125\004\013\023\017\101\055\124\162\165\163
\164\055\121\165\141\154\055\060\061\061\030\060\026\006\003\125
\004\003\023\017\101\055\124\162\165\163\164\055\121\165\141\154
\055\060\061\060\036\027\015\060\064\061\061\063\060\062\063\060
\060\060\060\132\027\015\061\064\061\061\063\060\062\063\060\060
\060\060\132\060\201\317\061\013\060\011\006\003\125\004\006\023
\002\101\124\061\201\213\060\201\210\006\003\125\004\012\036\201
\200\000\101\000\055\000\124\000\162\000\165\000\163\000\164\000
\040\000\107\000\145\000\163\000\056\000\040\000\146\000\374\000

\162\000\040\000\123\000\151\000\143\000\150\000\145\000\162\000
\150\000\145\000\151\000\164\000\163\000\163\000\171\000\163\000
\164\000\145\000\155\000\145\000\040\000\151\000\155\000\040\000
\145\000\154\000\145\000\153\000\164\000\162\000\056\000\040\000
\104\000\141\000\164\000\145\000\156\000\166\000\145\000\162\000
\153\000\145\000\150\000\162\000\040\000\107\000\155\000\142\000
\110\061\030\060\026\006\003\125\004\013\023\017\101\055\124\162
\165\163\164\055\121\165\141\154\055\060\061\061\030\060\026\006
\003\125\004\003\023\017\101\055\124\162\165\163\164\055\121\165
\141\154\055\060\061\060\202\001\042\060\015\006\011\052\206\110
\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001
\012\002\202\001\001\000\246\206\007\161\041\274\123\030\103\207
\175\161\242\173\002\067\064\131\135\001\142\205\131\362\350\174
\357\271\043\125\033\274\016\132\276\336\310\202\301\227\317\373
\110\375\376\107\031\106\332\261\302\064\213\274\106\322\332\225
\224\016\134\265\010\013\106\254\140\304\173\140\116\103\034\252
\300\004\141\333\063\334\266\154\011\325\316\325\012\357\020\021
\213\115\040\001\167\030\213\376\004\226\047\254\373\354\044\260
\307\265\340\323\141\360\304\365\174\331\310\306\221\041\167\020
\321\211\236\333\210\000\011\321\015\151\377\071\021\343\025\253
\115\107\051\250\061\261\332\070\106\127\110\150\137\355\216\105
\256\261\304\250\154\242\364\116\254\277\277\070\015\357\323\325
\244\357\262\111\374\161\147\224\230\074\357\377\372\046\210\157
\332\375\137\112\101\354\177\353\125\315\360\353\141\121\005\147
\137\353\277\226\042\366\064\254\173\340\215\202\374\150\007\137
\220\164\132\103\315\252\304\216\202\151\157\047\367\012\271\075
\017\275\345\040\124\120\300\003\112\030\006\007\004\324\240\314
\224\026\315\322\111\217\002\003\001\000\001\243\066\060\064\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\021\006\003\125\035\016\004\012\004\010\113\074\214\035\205
\351\157\255\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\006\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\003\202\001\001\000\041\113\254\230\234\314\045\030\220
\361\060\007\254\220\016\172\127\356\132\204\306\162\247\110\277
\264\362\263\367\315\227\154\205\331\370\357\035\077\011\323\126
\212\211\251\105\126\226\325\171\015\227\051\275\116\331\261\316
\101\200\012\202\307\131\332\066\177\261\322\366\121\121\121\114
\171\242\164\273\272\075\330\026\010\024\141\045\204\004\055\012
\051\204\357\120\126\367\341\000\015\023\301\261\022\142\244\363
\372\171\110\344\152\373\011\227\274\177\241\304\232\022\146\012
\325\020\261\324\002\271\361\240\225\030\170\117\353\110\032\043
\106\162\174\225\020\166\175\336\144\225\172\221\153\325\120\066
\364\044\321\076\327\256\032\060\074\326\067\200\317\332\136\142
\041\104\324\045\357\304\257\134\046\053\364\005\300\013\024\265
\246\000\060\250\104\274\310\105\230\100\372\300\060\141\111\260
\063\132\352\124\043\300\336\100\120\274\200\275\346\334\220\274
\334\266\164\155\025\263\343\272\077\002\332\065\177\354\271\051
\104\225\015\072\137\151\165\127\003\032\141\276\057\144\241\152

\067\106\316\204\025\304\126
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "A-Trust-Qual-01"
Issuer: CN=A-Trust-Qual-01,OU=A-Trust-Qual-01,O=A-Trust Ges. für Sicherheitssysteme im elektr. Datenverkehr GmbH,C=AT
Serial Number: 57923 (0xe243)
Subject: CN=A-Trust-Qual-01,OU=A-Trust-Qual-01,O=A-Trust Ges. für Sicherheitssysteme im elektr. Datenverkehr GmbH,C=AT
Not Valid Before: Tue Nov 30 23:00:00 2004
Not Valid After: Sun Nov 30 23:00:00 2014
Fingerprint (MD5): a7:71:fd:26:fc:3c:e5:40:f1:99:06:eb:c1:93:6d:e9
Fingerprint (SHA1): e6:19:d2:5b:38:0b:7b:13:fd:a3:3e:8a:58:cd:82:d8:a8:8e:05:15
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "A-Trust-Qual-01"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\346\031\322\133\070\013\173\023\375\243\076\212\130\315\202\330
\250\216\005\025
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\247\161\375\046\374\074\345\100\361\231\006\353\301\223\155\351
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\317\061\013\060\011\006\003\125\004\006\023\002\101\124
\061\201\213\060\201\210\006\003\125\004\012\036\201\200\000\101
\000\055\000\124\000\162\000\165\000\163\000\164\000\040\000\107
\000\145\000\163\000\056\000\040\000\146\000\374\000\162\000\040
\000\123\000\151\000\143\000\150\000\145\000\162\000\150\000\145
\000\151\000\164\000\163\000\163\000\171\000\163\000\164\000\145
\000\155\000\145\000\040\000\151\000\155\000\040\000\145\000\154
\000\145\000\153\000\164\000\162\000\056\000\040\000\104\000\141
\000\164\000\145\000\156\000\166\000\145\000\162\000\153\000\145
\000\150\000\162\000\040\000\107\000\155\000\142\000\110\061\030
\060\026\006\003\125\004\013\023\017\101\055\124\162\165\163\164
\055\121\165\141\154\055\060\061\061\030\060\026\006\003\125\004
\003\023\017\101\055\124\162\165\163\164\055\121\165\141\154\055
\060\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\000\342\103
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "A-Trust-nQual-01"
Issuer: CN=A-Trust-nQual-01,OU=A-Trust-nQual-01,O=A-Trust,C=AT
Serial Number: 57922 (0xe242)
Subject: CN=A-Trust-nQual-01,OU=A-Trust-nQual-01,O=A-Trust,C=AT
Not Valid Before: Tue Nov 30 23:00:00 2004
Not Valid After: Sun Nov 30 23:00:00 2014
Fingerprint (MD5): c9:19:62:d0:da:7e:10:20:fc:a4:cd:03:80:87:2d:f5
Fingerprint (SHA1): 51:a4:4c:28:f3:13:e3:f9:cb:5e:7c:0a:1e:0e:0d:d2:84:37:58:ae
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "A-Trust-nQual-01"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\125\061\013\060\011\006\003\125\004\006\023\002\101\124\061
\020\060\016\006\003\125\004\012\023\007\101\055\124\162\165\163
\164\061\031\060\027\006\003\125\004\013\023\020\101\055\124\162
\165\163\164\055\156\121\165\141\154\055\060\061\061\031\060\027
\006\003\125\004\003\023\020\101\055\124\162\165\163\164\055\156
\121\165\141\154\055\060\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\125\061\013\060\011\006\003\125\004\006\023\002\101\124\061
\020\060\016\006\003\125\004\012\023\007\101\055\124\162\165\163
\164\061\031\060\027\006\003\125\004\013\023\020\101\055\124\162
\165\163\164\055\156\121\165\141\154\055\060\061\061\031\060\027
\006\003\125\004\003\023\020\101\055\124\162\165\163\164\055\156
\121\165\141\154\055\060\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\000\342\102
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\135\060\202\002\105\240\003\002\001\002\002\003\000
\342\102\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\000\060\125\061\013\060\011\006\003\125\004\006\023\002\101\124
\061\020\060\016\006\003\125\004\012\023\007\101\055\124\162\165
\163\164\061\031\060\027\006\003\125\004\013\023\020\101\055\124
\162\165\163\164\055\156\121\165\141\154\055\060\061\061\031\060
\027\006\003\125\004\003\023\020\101\055\124\162\165\163\164\055

\156\121\165\141\154\055\060\061\060\036\027\015\060\064\061\061
\063\060\062\063\060\060\060\060\132\027\015\061\064\061\061\063
\060\062\063\060\060\060\060\132\060\125\061\013\060\011\006\003
\125\004\006\023\002\101\124\061\020\060\016\006\003\125\004\012
\023\007\101\055\124\162\165\163\164\061\031\060\027\006\003\125
\004\013\023\020\101\055\124\162\165\163\164\055\156\121\165\141
\154\055\060\061\061\031\060\027\006\003\125\004\003\023\020\101
\055\124\162\165\163\164\055\156\121\165\141\154\055\060\061\060
\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001\001
\005\000\003\202\001\017\000\060\202\001\012\002\202\001\001\000
\377\365\034\200\021\236\236\036\150\130\314\322\167\333\307\364
\216\147\122\120\130\272\022\244\152\073\026\367\214\163\117\114
\212\112\363\140\221\353\076\145\231\051\331\100\325\056\010\360
\376\206\326\315\145\367\335\330\062\225\007\116\215\073\046\165
\333\067\016\060\050\043\340\153\144\146\212\204\323\063\351\075
\075\333\246\201\071\346\171\031\145\357\352\130\105\377\353\214
\063\374\277\370\021\331\057\050\064\212\033\365\054\077\276\114
\266\140\225\143\231\266\022\016\367\105\121\121\317\207\034\004
\203\051\035\351\170\227\061\052\112\107\103\265\223\230\345\371
\344\254\115\367\336\034\172\356\174\152\333\133\330\360\114\237
\360\356\037\075\016\121\264\337\036\242\024\002\160\364\065\317
\254\251\123\124\173\067\330\317\106\231\310\373\054\314\072\054
\035\337\344\034\052\021\342\326\150\202\316\215\051\220\346\201
\324\054\046\176\304\362\066\137\052\123\103\111\120\277\123\153
\247\036\153\265\223\207\004\342\132\211\166\310\077\074\161\335
\234\313\177\074\306\226\315\221\372\302\076\146\115\030\272\025
\002\003\001\000\001\243\066\060\064\060\017\006\003\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\021\006\003\125\035
\016\004\012\004\010\116\131\316\307\002\062\207\060\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\006\060\015\006
\011\052\206\110\206\367\015\001\001\005\005\000\003\202\001\001
\000\353\322\075\107\130\124\364\146\345\366\365\173\133\260\007
\102\225\011\002\121\100\276\375\210\267\367\230\362\235\250\271
\005\017\125\244\231\212\106\212\264\006\053\010\077\332\257\067
\327\007\215\320\172\337\235\063\240\251\036\311\374\212\106\021
\275\002\236\076\065\357\334\113\337\370\055\133\307\002\100\212
\147\047\145\136\226\371\263\116\116\227\150\362\125\345\217\031
\046\174\337\231\345\057\227\316\362\266\266\325\055\077\201\055
\140\345\132\304\174\066\230\363\015\156\360\336\143\347\350\046
\110\201\237\162\230\214\146\233\061\244\174\232\206\152\241\376
\150\176\076\042\113\365\262\152\144\331\266\056\257\375\362\261
\237\133\310\043\357\356\132\107\061\127\220\323\347\352\375\034
\272\047\320\326\005\321\130\067\327\265\241\372\005\203\127\237
\125\146\217\235\163\002\103\157\351\036\142\243\005\142\212\251
\357\264\206\221\221\256\343\124\274\064\146\044\101\215\327\366
\263\107\106\100\333\055\372\112\140\071\262\350\326\247\244\341
\065\020\165\265\376\303\122\024\013\070\336\246\131\050\221\020
\306

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "A-Trust-nQual-01"
Issuer: CN=A-Trust-nQual-01,OU=A-Trust-nQual-01,O=A-Trust,C=AT
Serial Number: 57922 (0xe242)
Subject: CN=A-Trust-nQual-01,OU=A-Trust-nQual-01,O=A-Trust,C=AT
Not Valid Before: Tue Nov 30 23:00:00 2004
Not Valid After: Sun Nov 30 23:00:00 2014
Fingerprint (MD5): c9:19:62:d0:da:7e:10:20:fc:a4:cd:03:80:87:2d:f5
Fingerprint (SHA1): 51:a4:4c:28:f3:13:e3:f9:cb:5e:7c:0a:1e:0e:0d:d2:84:37:58:ae
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "A-Trust-nQual-01"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\121\244\114\050\363\023\343\371\313\136\174\012\036\016\015\322
\204\067\130\256
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\311\031\142\320\332\176\020\040\374\244\315\003\200\207\055\365
END
CKA_ISSUER MULTILINE_OCTAL
\060\125\061\013\060\011\006\003\125\004\006\023\002\101\124\061
\020\060\016\006\003\125\004\012\023\007\101\055\124\162\165\163
\164\061\031\060\027\006\003\125\004\013\023\020\101\055\124\162
\165\163\164\055\156\121\165\141\154\055\060\061\061\031\060\027
\006\003\125\004\003\023\020\101\055\124\162\165\163\164\055\156
\121\165\141\154\055\060\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\000\342\102
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Staat der Nederlanden Root CA"
Issuer: CN=Staat der Nederlanden Root CA,O=Staat der Nederlanden,C=NL
Serial Number:98:96:8a
Subject: CN=Staat der Nederlanden Root CA,O=Staat der Nederlanden,C=NL
Not Valid Before: Tue Dec 17 09:23:49 2002

Not Valid After: Wed Dec 16 09:15:38 2015
Fingerprint (MD5): 60:84:7c:5a:ce:db:0c:d4:cb:a7:e9:fe:02:c6:a9:c0
Fingerprint (SHA1): 10:1d:fa:3f:d5:0b:cb:bb:9b:b5:60:0c:19:55:a4:1a:f4:73:3a:04
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\125\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\023\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\046\060\044\006\003\125\004\003\023\035\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\125\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\023\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\046\060\044\006\003\125\004\003\023\035\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\000\230\226\212
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\272\060\202\002\242\240\003\002\001\002\002\004\000
\230\226\212\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\060\125\061\013\060\011\006\003\125\004\006\023\002\116
\114\061\036\060\034\006\003\125\004\012\023\025\123\164\141\141
\164\040\144\145\162\040\116\145\144\145\162\154\141\156\144\145
\156\061\046\060\044\006\003\125\004\003\023\035\123\164\141\141
\164\040\144\145\162\040\116\145\144\145\162\154\141\156\144\145
\156\040\122\157\157\164\040\103\101\060\036\027\015\060\062\061
\062\061\067\060\071\062\063\064\071\132\027\015\061\065\061\062
\061\066\060\071\061\065\063\070\132\060\125\061\013\060\011\006
\003\125\004\006\023\002\116\114\061\036\060\034\006\003\125\004
\012\023\025\123\164\141\141\164\040\144\145\162\040\116\145\144
\145\162\154\141\156\144\145\156\061\046\060\044\006\003\125\004
\003\023\035\123\164\141\141\164\040\144\145\162\040\116\145\144
\145\162\154\141\156\144\145\156\040\122\157\157\164\040\103\101
\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001\001
\000\230\322\265\121\021\172\201\246\024\230\161\155\276\314\347

\023\033\326\047\016\172\263\152\030\034\266\141\132\325\141\011
\277\336\220\023\307\147\356\335\363\332\305\014\022\236\065\125
\076\054\047\210\100\153\367\334\335\042\141\365\302\307\016\365
\366\325\166\123\115\217\214\274\030\166\067\205\235\350\312\111
\307\322\117\230\023\011\242\076\042\210\234\177\326\362\020\145
\264\356\137\030\325\027\343\370\305\375\342\235\242\357\123\016
\205\167\242\017\341\060\107\356\000\347\063\175\104\147\032\013
\121\350\213\240\236\120\230\150\064\122\037\056\155\001\362\140
\105\362\061\353\251\061\150\051\273\172\101\236\306\031\177\224
\264\121\071\003\177\262\336\247\062\233\264\107\216\157\264\112
\256\345\257\261\334\260\033\141\274\231\162\336\344\211\267\172
\046\135\332\063\111\133\122\234\016\365\212\255\303\270\075\350
\006\152\302\325\052\013\154\173\204\275\126\005\313\206\145\222
\354\104\053\260\216\271\334\160\013\106\332\255\274\143\210\071
\372\333\152\376\043\372\274\344\110\364\147\053\152\021\020\041
\111\002\003\001\000\001\243\201\221\060\201\216\060\014\006\003
\125\035\023\004\005\060\003\001\001\377\060\117\006\003\125\035
\040\004\110\060\106\060\104\006\004\125\035\040\000\060\074\060
\072\006\010\053\006\001\005\005\007\002\001\026\056\150\164\164
\160\072\057\057\167\167\167\056\160\153\151\157\166\145\162\150
\145\151\144\056\156\154\057\160\157\154\151\143\151\145\163\057
\162\157\157\164\055\160\157\154\151\143\171\060\016\006\003\125
\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003\125
\035\016\004\026\004\024\250\175\353\274\143\244\164\023\164\000
\354\226\340\323\064\301\054\277\154\370\060\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\003\202\001\001\000\005\204
\207\125\164\066\141\301\273\321\324\306\025\250\023\264\237\244
\376\273\356\025\264\057\006\014\051\362\250\222\244\141\015\374
\253\134\010\133\121\023\053\115\302\052\141\310\370\011\130\374
\055\002\262\071\175\231\146\201\277\156\134\225\105\040\154\346
\171\247\321\330\034\051\374\302\040\047\121\310\361\174\135\064
\147\151\205\021\060\306\000\322\327\363\323\174\266\360\061\127
\050\022\202\163\351\063\057\246\125\264\013\221\224\107\234\372
\273\172\102\062\350\256\176\055\310\274\254\024\277\331\017\331
\133\374\301\371\172\225\341\175\176\226\374\161\260\302\114\310
\337\105\064\311\316\015\362\234\144\010\320\073\303\051\305\262
\355\220\004\301\261\051\221\305\060\157\301\251\162\063\314\376
\135\026\027\054\021\151\347\176\376\305\203\010\337\274\334\042
\072\056\040\151\043\071\126\140\147\220\213\056\166\071\373\021
\210\227\366\174\275\113\270\040\026\147\005\215\342\073\301\162
\077\224\225\067\307\135\271\236\330\223\241\027\217\377\014\146
\025\301\044\174\062\174\003\035\073\241\130\105\062\223
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate

```
# Trust for "Staat der Nederlanden Root CA"
# Issuer: CN=Staat der Nederlanden Root CA,O=Staat der Nederlanden,C=NL
# Serial Number:98:96:8a
# Subject: CN=Staat der Nederlanden Root CA,O=Staat der Nederlanden,C=NL
# Not Valid Before: Tue Dec 17 09:23:49 2002
# Not Valid After: Wed Dec 16 09:15:38 2015
# Fingerprint (MD5): 60:84:7c:5a:ce:db:0c:d4:cb:a7:e9:fe:02:c6:a9:c0
# Fingerprint (SHA1): 10:1d:fa:3f:d5:0b:cb:bb:9b:b5:60:0c:19:55:a4:1a:f4:73:3a:04
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\020\035\372\077\325\013\313\273\233\265\140\014\031\125\244\032
\364\163\072\004
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\140\204\174\132\316\333\014\324\313\247\351\376\002\306\251\300
END
CKA_ISSUER MULTILINE_OCTAL
\060\125\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\023\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\046\060\044\006\003\125\004\003\023\035\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\000\230\226\212
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Serasa Certificate Authority II"
# Issuer: CN=Serasa Certificate Authority II,OU=Serasa CA II,O=Serasa S.A.,C=BR
# Serial Number:46:2b:56:c6:ef:a7:91:a0
# Subject: CN=Serasa Certificate Authority II,OU=Serasa CA II,O=Serasa S.A.,C=BR
# Not Valid Before: Fri Nov 26 12:34:48 2004
# Not Valid After: Thu Nov 21 12:44:48 2024
# Fingerprint (MD5): 1b:d7:5f:76:73:4c:c0:dc:98:ca:44:2b:cc:0f:78:dd
# Fingerprint (SHA1): 31:e2:c5:2c:e1:08:9b:ef:fd:da:db:26:dd:7c:78:2e:bc:40:37:bd
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
```

CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Serasa Certificate Authority II"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\144\061\013\060\011\006\003\125\004\006\023\002\102\122\061
\024\060\022\006\003\125\004\012\023\013\123\145\162\141\163\141
\040\123\056\101\056\061\025\060\023\006\003\125\004\013\023\014
\123\145\162\141\163\141\040\103\101\040\111\111\061\050\060\046
\006\003\125\004\003\023\037\123\145\162\141\163\141\040\103\145
\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162
\151\164\171\040\111\111
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\144\061\013\060\011\006\003\125\004\006\023\002\102\122\061
\024\060\022\006\003\125\004\012\023\013\123\145\162\141\163\141
\040\123\056\101\056\061\025\060\023\006\003\125\004\013\023\014
\123\145\162\141\163\141\040\103\101\040\111\111\061\050\060\046
\006\003\125\004\003\023\037\123\145\162\141\163\141\040\103\145
\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162
\151\164\171\040\111\111
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\106\053\126\306\357\247\221\240
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\026\060\202\002\376\240\003\002\001\002\002\010\106
\053\126\306\357\247\221\240\060\015\006\011\052\206\110\206\367
\015\001\001\005\005\000\060\144\061\013\060\011\006\003\125\004
\006\023\002\102\122\061\024\060\022\006\003\125\004\012\023\013
\123\145\162\141\163\141\040\123\056\101\056\061\025\060\023\006
\003\125\004\013\023\014\123\145\162\141\163\141\040\103\101\040
\111\111\061\050\060\046\006\003\125\004\003\023\037\123\145\162
\141\163\141\040\103\145\162\164\151\146\151\143\141\164\145\040
\101\165\164\150\157\162\151\164\171\040\111\111\060\036\027\015
\060\064\061\061\062\066\061\062\063\064\064\070\132\027\015\062
\064\061\061\062\061\061\062\064\064\064\070\132\060\144\061\013
\060\011\006\003\125\004\006\023\002\102\122\061\024\060\022\006
\003\125\004\012\023\013\123\145\162\141\163\141\040\123\056\101
\056\061\025\060\023\006\003\125\004\013\023\014\123\145\162\141
\163\141\040\103\101\040\111\111\061\050\060\046\006\003\125\004
\003\023\037\123\145\162\141\163\141\040\103\145\162\164\151\146
\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171\040
\111\111\060\202\001\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202
\001\001\000\255\037\211\262\146\235\133\267\251\325\345\362\140
\104\204\371\224\155\342\171\135\156\300\245\256\272\061\143\240
\251\236\121\136\134\156\007\331\112\105\164\137\215\236\151\070

\266\050\103\222\256\117\202\240\374\066\121\065\076\215\240\347
\016\051\010\014\065\267\043\075\357\113\032\016\060\130\127\100
\000\022\361\200\232\200\043\112\301\240\206\215\101\070\210\120
\163\150\361\137\123\210\224\012\021\041\305\140\264\242\140\145
\053\030\372\020\073\221\222\077\370\325\142\116\276\126\136\305
\220\205\112\065\200\256\156\073\101\014\225\022\356\247\052\003
\116\274\147\075\113\200\031\022\342\164\056\135\353\110\271\117
\073\157\074\367\302\260\037\032\104\075\233\134\300\275\272\006
\145\014\347\164\147\037\311\144\076\367\237\215\054\033\101\222
\370\035\334\251\137\220\322\123\160\065\215\004\252\044\176\364
\315\245\046\116\350\366\363\070\025\060\276\255\032\363\107\044
\217\112\120\047\047\123\376\141\232\172\134\330\154\307\117\126
\364\051\054\245\243\024\227\337\142\015\274\222\043\133\243\112
\364\072\225\002\003\001\000\001\243\201\313\060\201\310\060\047
\006\003\125\035\045\004\040\060\036\006\010\053\006\001\005\005
\007\003\001\006\010\053\006\001\005\005\007\003\003\006\010\053
\006\001\005\005\007\003\010\060\135\006\003\125\035\037\004\126
\060\124\060\122\240\120\240\116\206\114\150\164\164\160\072\057
\057\167\167\167\056\143\145\162\164\151\146\151\143\141\144\157
\144\151\147\151\164\141\154\056\143\157\155\056\142\162\057\162
\145\160\157\163\151\164\157\162\151\157\057\163\145\162\141\163
\141\143\141\057\143\162\154\057\123\145\162\141\163\141\103\101
\111\111\056\143\162\154\060\035\006\003\125\035\016\004\026\004
\024\236\354\231\020\000\111\153\314\212\077\333\157\006\345\312
\024\030\162\223\203\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\006\060\015\006\011\052\206\110\206\367\015
\001\001\005\005\000\003\202\001\001\000\240\013\266\247\335\315
\065\110\350\156\217\250\150\340\261\233\221\044\041\311\126\351
\232\365\356\160\241\064\260\344\174\076\252\312\227\350\200\377
\142\005\344\354\100\354\331\345\234\145\133\000\231\264\242\060
\105\004\134\057\265\320\223\257\332\221\005\351\337\231\061\365
\212\204\017\045\330\147\336\051\153\034\267\110\375\266\336\223
\022\257\167\252\001\351\303\341\060\024\252\137\170\250\107\177
\324\272\122\141\061\361\031\270\333\036\053\250\211\236\306\060
\162\221\006\260\043\251\003\031\150\362\247\004\253\356\316\122
\066\140\312\110\333\123\372\234\247\174\265\365\064\057\103\176
\254\364\204\266\225\062\245\244\276\351\152\252\213\101\231\312
\002\275\022\073\347\007\321\261\362\105\247\164\247\046\344\274
\150\157\314\031\041\360\224\312\310\102\137\376\071\367\333\072
\136\063\245\233\006\252\320\062\254\310\252\176\213\261\070\210
\277\346\114\350\240\345\217\234\104\036\036\040\036\360\057\141
\252\151\206\174\325\365\267\316\311\053\305\014\335\312\267\050
\302\005\336\147\031\253\055\215\243\147
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Microsoft Code Signing Only Certificate
# Trust for "Serasa Certificate Authority II"
# Issuer: CN=Serasa Certificate Authority II,OU=Serasa CA II,O=Serasa S.A.,C=BR
# Serial Number:46:2b:56:c6:ef:a7:91:a0
# Subject: CN=Serasa Certificate Authority II,OU=Serasa CA II,O=Serasa S.A.,C=BR
# Not Valid Before: Fri Nov 26 12:34:48 2004
# Not Valid After: Thu Nov 21 12:44:48 2024
# Fingerprint (MD5): 1b:d7:5f:76:73:4c:c0:dc:98:ca:44:2b:cc:0f:78:dd
# Fingerprint (SHA1): 31:e2:c5:2c:e1:08:9b:ef:fd:da:db:26:dd:7c:78:2e:bc:40:37:bd
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Serasa Certificate Authority II"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\061\342\305\054\341\010\233\357\375\332\333\046\335\174\170\056
\274\100\067\275
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\033\327\137\166\163\114\300\334\230\312\104\053\314\017\170\335
END
CKA_ISSUER MULTILINE_OCTAL
\060\144\061\013\060\011\006\003\125\004\006\023\002\102\122\061
\024\060\022\006\003\125\004\012\023\013\123\145\162\141\163\141
\040\123\056\101\056\061\025\060\023\006\003\125\004\013\023\014
\123\145\162\141\163\141\040\103\101\040\111\111\061\050\060\046
\006\003\125\004\003\023\037\123\145\162\141\163\141\040\103\145
\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162
\151\164\171\040\111\111
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\106\053\126\306\357\247\221\240
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "TDC Internet"
# Issuer: OU=TDC Internet Root CA,O=TDC Internet,C=DK
# Serial Number:3a:cc:a5:4c
# Subject: OU=TDC Internet Root CA,O=TDC Internet,C=DK
# Not Valid Before: Thu Apr 05 16:33:17 2001
# Not Valid After: Mon Apr 05 17:03:17 2021
# Fingerprint (MD5): 91:f4:03:55:20:a1:f8:63:2c:62:de:ac:fb:61:1c:8e
# Fingerprint (SHA1): 21:fc:bd:8e:7f:6c:af:05:1b:d1:b3:43:ec:a8:e7:61:47:f2:0f:8a
```

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TDC Internet"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\103\061\013\060\011\006\003\125\004\006\023\002\104\113\061
\025\060\023\006\003\125\004\012\023\014\124\104\103\040\111\156
\164\145\162\156\145\164\061\035\060\033\006\003\125\004\013\023
\024\124\104\103\040\111\156\164\145\162\156\145\164\040\122\157
\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\103\061\013\060\011\006\003\125\004\006\023\002\104\113\061
\025\060\023\006\003\125\004\012\023\014\124\104\103\040\111\156
\164\145\162\156\145\164\061\035\060\033\006\003\125\004\013\023
\024\124\104\103\040\111\156\164\145\162\156\145\164\040\122\157
\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\072\314\245\114
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\053\060\202\003\023\240\003\002\001\002\002\004\072
\314\245\114\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\060\103\061\013\060\011\006\003\125\004\006\023\002\104
\113\061\025\060\023\006\003\125\004\012\023\014\124\104\103\040
\111\156\164\145\162\156\145\164\061\035\060\033\006\003\125\004
\013\023\024\124\104\103\040\111\156\164\145\162\156\145\164\040
\122\157\157\164\040\103\101\060\036\027\015\060\061\060\064\060
\065\061\066\063\063\061\067\132\027\015\062\061\060\064\060\065
\061\067\060\063\061\067\132\060\103\061\013\060\011\006\003\125
\004\006\023\002\104\113\061\025\060\023\006\003\125\004\012\023
\014\124\104\103\040\111\156\164\145\162\156\145\164\061\035\060
\033\006\003\125\004\013\023\024\124\104\103\040\111\156\164\145
\162\156\145\164\040\122\157\157\164\040\103\101\060\202\001\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\001\017\000\060\202\001\012\002\202\001\001\000\304\270\100
\274\221\325\143\037\327\231\240\213\014\100\036\164\267\110\235
\106\214\002\262\340\044\137\360\031\023\247\067\203\153\135\307
\216\371\204\060\316\032\073\372\373\316\213\155\043\306\303\156
\146\237\211\245\337\340\102\120\147\372\037\154\036\364\320\005
\326\277\312\326\116\344\150\140\154\106\252\034\135\143\341\007
\206\016\145\000\247\056\246\161\306\274\271\201\250\072\175\032
\322\371\321\254\113\313\316\165\257\334\173\372\201\163\324\374
\272\275\101\210\324\164\263\371\136\070\072\074\103\250\322\225

\116\167\155\023\014\235\217\170\001\267\132\040\037\003\067\065
\342\054\333\113\053\054\170\271\111\333\304\320\307\234\234\344
\212\040\011\041\026\126\146\377\005\354\133\343\360\317\253\044
\044\136\303\177\160\172\022\304\322\265\020\240\266\041\341\215
\170\151\125\104\151\365\312\226\034\064\205\027\045\167\342\366
\057\047\230\170\375\171\006\072\242\326\132\103\301\377\354\004
\073\356\023\357\323\130\132\377\222\353\354\256\332\362\067\003
\107\101\266\227\311\055\012\101\042\273\273\346\247\002\003\001
\000\001\243\202\001\045\060\202\001\041\060\021\006\011\140\206
\110\001\206\370\102\001\001\004\004\003\002\000\007\060\145\006
\003\125\035\037\004\136\060\134\060\132\240\130\240\126\244\124
\060\122\061\013\060\011\006\003\125\004\006\023\002\104\113\061
\025\060\023\006\003\125\004\012\023\014\124\104\103\040\111\156
\164\145\162\156\145\164\061\035\060\033\006\003\125\004\013\023
\024\124\104\103\040\111\156\164\145\162\156\145\164\040\122\157
\157\164\040\103\101\061\015\060\013\006\003\125\004\003\023\004
\103\122\114\061\060\053\006\003\125\035\020\004\044\060\042\200
\017\062\060\060\061\060\064\060\065\061\066\063\063\061\067\132
\201\017\062\060\062\061\060\064\060\065\061\067\060\063\061\067
\132\060\013\006\003\125\035\017\004\004\003\002\001\006\060\037
\006\003\125\035\043\004\030\060\026\200\024\154\144\001\307\375
\205\155\254\310\332\236\120\010\205\010\265\074\126\250\120\060
\035\006\003\125\035\016\004\026\004\024\154\144\001\307\375\205
\155\254\310\332\236\120\010\205\010\265\074\126\250\120\060\014
\006\003\125\035\023\004\005\060\003\001\001\377\060\035\006\011
\052\206\110\206\366\175\007\101\000\004\020\060\016\033\010\126
\065\056\060\072\064\056\060\003\002\004\220\060\015\006\011\052
\206\110\206\367\015\001\001\005\005\000\003\202\001\001\000\116
\103\314\321\335\035\020\033\006\177\267\244\372\323\331\115\373
\043\237\043\124\133\346\213\057\004\050\213\265\047\155\211\241
\354\230\151\334\347\215\046\203\005\171\164\354\264\271\243\227
\301\065\000\375\025\332\071\201\072\225\061\220\336\227\351\206
\250\231\167\014\345\132\240\204\377\022\026\254\156\270\215\303
\173\222\302\254\056\320\175\050\354\266\363\140\070\151\157\076
\330\004\125\076\236\314\125\322\272\376\273\107\004\327\012\331
\026\012\064\051\365\130\023\325\117\317\217\126\113\263\036\356
\323\230\171\332\010\036\014\157\270\370\026\047\357\302\157\075
\366\243\113\076\016\344\155\154\333\073\101\022\233\275\015\107
\043\177\074\112\320\257\300\257\366\357\033\265\025\304\353\203
\304\011\137\164\213\331\021\373\302\126\261\074\370\160\312\064
\215\103\100\023\214\375\231\003\124\171\306\056\352\206\241\366
\072\324\011\274\364\274\146\314\075\130\320\127\111\012\356\045
\342\101\356\023\371\233\070\064\321\000\365\176\347\224\035\374
\151\003\142\270\231\005\005\075\153\170\022\275\260\157\145
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "TDC Internet"
Issuer: OU=TDC Internet Root CA,O=TDC Internet,C=DK
Serial Number:3a:cc:a5:4c
Subject: OU=TDC Internet Root CA,O=TDC Internet,C=DK
Not Valid Before: Thu Apr 05 16:33:17 2001
Not Valid After: Mon Apr 05 17:03:17 2021
Fingerprint (MD5): 91:f4:03:55:20:a1:f8:63:2c:62:de:ac:fb:61:1c:8e
Fingerprint (SHA1): 21:fc:bd:8e:7f:6c:af:05:1b:d1:b3:43:ec:a8:e7:61:47:f2:0f:8a
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TDC Internet"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\041\374\275\216\177\154\257\005\033\321\263\103\354\250\347\141
\107\362\017\212
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\221\364\003\125\040\241\370\143\054\142\336\254\373\141\034\216
END
CKA_ISSUER MULTILINE_OCTAL
\060\103\061\013\060\011\006\003\125\004\006\023\002\104\113\061
\025\060\023\006\003\125\004\012\023\014\124\104\103\040\111\156
\164\145\162\156\145\164\061\035\060\033\006\003\125\004\013\023
\024\124\104\103\040\111\156\164\145\162\156\145\164\040\122\157
\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\072\314\245\114
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "America Online Root Certification Authority 2"
Issuer: CN=America Online Root Certification Authority 2,O=America Online Inc.,C=US
Serial Number: 1 (0x1)
Subject: CN=America Online Root Certification Authority 2,O=America Online Inc.,C=US
Not Valid Before: Tue May 28 06:00:00 2002
Not Valid After: Tue Sep 29 14:08:00 2037
Fingerprint (MD5): d6:ed:3c:ca:e2:66:0f:af:10:43:0d:77:9b:04:09:bf
Fingerprint (SHA1): 85:b5:ff:67:9b:0c:79:96:1f:c8:6e:44:22:00:46:13:db:17:92:84
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "America Online Root Certification Authority 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\034\060\032\006\003\125\004\012\023\023\101\155\145\162\151\143
\141\040\117\156\154\151\156\145\040\111\156\143\056\061\066\060
\064\006\003\125\004\003\023\055\101\155\145\162\151\143\141\040
\117\156\154\151\156\145\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\040\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\034\060\032\006\003\125\004\012\023\023\101\155\145\162\151\143
\141\040\117\156\154\151\156\145\040\111\156\143\056\061\066\060
\064\006\003\125\004\003\023\055\101\155\145\162\151\143\141\040
\117\156\154\151\156\145\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\244\060\202\003\214\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061\034
\060\032\006\003\125\004\012\023\023\101\155\145\162\151\143\141
\040\117\156\154\151\156\145\040\111\156\143\056\061\066\060\064
\006\003\125\004\003\023\055\101\155\145\162\151\143\141\040\117
\156\154\151\156\145\040\122\157\157\164\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\062\060\036\027\015\060\062\060\065\062\070\060\066
\060\060\060\060\132\027\015\063\067\060\071\062\071\061\064\060
\070\060\060\132\060\143\061\013\060\011\006\003\125\004\006\023
\002\125\123\061\034\060\032\006\003\125\004\012\023\023\101\155
\145\162\151\143\141\040\117\156\154\151\156\145\040\111\156\143
\056\061\066\060\064\006\003\125\004\003\023\055\101\155\145\162
\151\143\141\040\117\156\154\151\156\145\040\122\157\157\164\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165
\164\150\157\162\151\164\171\040\062\060\202\002\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017
\000\060\202\002\012\002\202\002\001\000\314\101\105\035\351\075
\115\020\366\214\261\101\311\340\136\313\015\267\277\107\163\323
\360\125\115\335\306\014\372\261\146\005\152\315\170\264\334\002

\333\116\201\363\327\247\174\161\274\165\143\240\135\343\007\014
\110\354\045\304\003\040\364\377\016\073\022\377\233\215\341\306
\325\033\264\155\042\343\261\333\177\041\144\257\206\274\127\042
\052\326\107\201\127\104\202\126\123\275\206\024\001\013\374\177
\164\244\132\256\361\272\021\265\233\130\132\200\264\067\170\011
\063\174\062\107\003\134\304\245\203\110\364\127\126\156\201\066
\047\030\117\354\233\050\302\324\264\327\174\014\076\014\053\337
\312\004\327\306\216\352\130\116\250\244\245\030\034\154\105\230
\243\101\321\055\322\307\155\215\031\361\255\171\267\201\077\275
\006\202\047\055\020\130\005\265\170\005\271\057\333\014\153\220
\220\176\024\131\070\273\224\044\023\345\321\235\024\337\323\202
\115\106\360\200\071\122\062\017\343\204\262\172\103\362\136\336
\137\077\035\335\343\262\033\240\241\052\043\003\156\056\001\025
\207\134\246\165\165\307\227\141\276\336\206\334\324\110\333\275
\052\277\112\125\332\350\175\120\373\264\200\027\270\224\277\001
\075\352\332\272\174\340\130\147\027\271\130\340\210\206\106\147
\154\235\020\107\130\062\320\065\174\171\052\220\242\132\020\021
\043\065\255\057\314\344\112\133\247\310\047\362\203\336\136\273
\136\167\347\350\245\156\143\302\015\135\141\320\214\322\154\132
\041\016\312\050\243\316\052\351\225\307\110\317\226\157\035\222
\045\310\306\306\301\301\014\005\254\046\304\322\165\322\341\052
\147\300\075\133\245\232\353\317\173\032\250\235\024\105\345\017
\240\232\145\336\057\050\275\316\157\224\146\203\110\051\330\352
\145\214\257\223\331\144\237\125\127\046\277\157\313\067\061\231
\243\140\273\034\255\211\064\062\142\270\103\041\006\162\014\241
\134\155\106\305\372\051\317\060\336\211\334\161\133\335\266\067
\076\337\120\365\270\007\045\046\345\274\265\376\074\002\263\267
\370\276\103\301\207\021\224\236\043\154\027\212\270\212\047\014
\124\107\360\251\263\300\200\214\240\047\353\035\031\343\007\216
\167\160\312\053\364\175\166\340\170\147\002\003\001\000\001\243
\143\060\141\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024\115
\105\301\150\070\273\163\251\151\241\040\347\355\365\042\241\043
\024\327\236\060\037\006\003\125\035\043\004\030\060\026\200\024
\115\105\301\150\070\273\163\251\151\241\040\347\355\365\042\241
\043\024\327\236\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\206\060\015\006\011\052\206\110\206\367\015\001\001
\005\005\000\003\202\002\001\000\147\153\006\271\137\105\073\052
\113\063\263\346\033\153\131\116\042\314\271\267\244\045\311\247
\304\360\124\226\013\144\363\261\130\117\136\121\374\262\227\173
\047\145\302\345\312\347\015\014\045\173\142\343\372\237\264\207
\267\105\106\257\203\245\227\110\214\245\275\361\026\053\233\166
\054\172\065\140\154\021\200\227\314\251\222\122\346\053\346\151
\355\251\370\066\055\054\167\277\141\110\321\143\013\271\133\122
\355\030\260\103\102\042\246\261\167\256\336\151\305\315\307\034
\241\261\245\034\020\373\030\276\032\160\335\301\222\113\276\051
\132\235\077\065\276\345\175\121\370\125\340\045\165\043\207\036
\134\334\272\235\260\254\263\151\333\027\203\311\367\336\014\274

\010\334\221\236\250\320\327\025\067\163\245\065\270\374\176\305
\104\100\006\303\353\370\042\200\134\107\316\002\343\021\237\104
\377\375\232\062\314\175\144\121\016\353\127\046\166\072\343\036
\042\074\302\246\066\335\031\357\247\374\022\363\046\300\131\061
\205\114\234\330\317\337\244\314\314\051\223\377\224\155\166\134
\023\010\227\362\355\245\013\115\335\350\311\150\016\146\323\000
\016\063\022\133\274\225\345\062\220\250\263\306\154\203\255\167
\356\213\176\176\261\251\253\323\341\361\266\300\261\352\210\300
\347\323\220\351\050\222\224\173\150\173\227\052\012\147\055\205
\002\070\020\344\003\141\324\332\045\066\307\010\130\055\241\247
\121\257\060\012\111\365\246\151\207\007\055\104\106\166\216\052
\345\232\073\327\030\242\374\234\070\020\314\306\073\322\265\027
\072\157\375\256\045\275\365\162\131\144\261\164\052\070\137\030
\114\337\317\161\004\132\066\324\277\057\231\234\350\331\272\261
\225\346\002\113\041\241\133\325\301\117\217\256\151\155\123\333
\001\223\265\134\036\030\335\144\132\312\030\050\076\143\004\021
\375\034\215\000\017\270\067\337\147\212\235\146\251\002\152\221
\377\023\312\057\135\203\274\207\223\154\334\044\121\026\004\045
\146\372\263\331\302\272\051\276\232\110\070\202\231\364\277\073
\112\061\031\371\277\216\041\063\024\312\117\124\137\373\316\373
\217\161\177\375\136\031\240\017\113\221\270\304\124\274\006\260
\105\217\046\221\242\216\376\251
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "America Online Root Certification Authority 2"
Issuer: CN=America Online Root Certification Authority 2,O=America Online Inc.,C=US
Serial Number: 1 (0x1)
Subject: CN=America Online Root Certification Authority 2,O=America Online Inc.,C=US
Not Valid Before: Tue May 28 06:00:00 2002
Not Valid After: Tue Sep 29 14:08:00 2037
Fingerprint (MD5): d6:ed:3c:ca:e2:66:0f:af:10:43:0d:77:9b:04:09:bf
Fingerprint (SHA1): 85:b5:ff:67:9b:0c:79:96:1f:c8:6e:44:22:00:46:13:db:17:92:84
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "America Online Root Certification Authority 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\205\265\377\147\233\014\171\226\037\310\156\104\042\000\106\023
\333\027\222\204
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\326\355\074\312\342\146\017\257\020\103\015\167\233\004\011\277
END

```
CKA_ISSUER MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\034\060\032\006\003\125\004\012\023\023\101\155\145\162\151\143
\141\040\117\156\154\151\156\145\040\111\156\143\056\061\066\060
\064\006\003\125\004\003\023\055\101\155\145\162\151\143\141\040
\117\156\154\151\156\145\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "RSA Security Inc"
# Issuer: OU=RSA Security 2048 V3,O=RSA Security Inc
# Serial Number:0a:01:01:01:00:00:02:7c:00:00:00:0a:00:00:00:02
# Subject: OU=RSA Security 2048 V3,O=RSA Security Inc
# Not Valid Before: Thu Feb 22 20:39:23 2001
# Not Valid After: Sun Feb 22 20:39:23 2026
# Fingerprint (MD5): 77:0d:19:b1:21:fd:00:42:9c:3e:0c:a5:dd:0b:02:8e
# Fingerprint (SHA1): 25:01:90:19:cf:fb:d9:99:1c:b7:68:25:74:8d:94:5f:30:93:95:42
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "RSA Security Inc"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\072\061\031\060\027\006\003\125\004\012\023\020\122\123\101
\040\123\145\143\165\162\151\164\171\040\111\156\143\061\035\060
\033\006\003\125\004\013\023\024\122\123\101\040\123\145\143\165
\162\151\164\171\040\062\060\064\070\040\126\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\072\061\031\060\027\006\003\125\004\012\023\020\122\123\101
\040\123\145\143\165\162\151\164\171\040\111\156\143\061\035\060
\033\006\003\125\004\013\023\024\122\123\101\040\123\145\143\165
\162\151\164\171\040\062\060\064\070\040\126\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\012\001\001\001\000\000\002\174\000\000\000\012\000\000
\000\002
```

END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\141\060\202\002\111\240\003\002\001\002\002\020\012
\001\001\001\000\000\002\174\000\000\000\012\000\000\000\002\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\072
\061\031\060\027\006\003\125\004\012\023\020\122\123\101\040\123
\145\143\165\162\151\164\171\040\111\156\143\061\035\060\033\006
\003\125\004\013\023\024\122\123\101\040\123\145\143\165\162\151
\164\171\040\062\060\064\070\040\126\063\060\036\027\015\060\061
\060\062\062\062\062\060\063\071\062\063\132\027\015\062\066\060
\062\062\062\062\060\063\071\062\063\132\060\072\061\031\060\027
\006\003\125\004\012\023\020\122\123\101\040\123\145\143\165\162
\151\164\171\040\111\156\143\061\035\060\033\006\003\125\004\013
\023\024\122\123\101\040\123\145\143\165\162\151\164\171\040\062
\060\064\070\040\126\063\060\202\001\042\060\015\006\011\052\206
\110\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202
\001\012\002\202\001\001\000\267\217\125\161\322\200\335\173\151
\171\247\360\030\120\062\074\142\147\366\012\225\007\335\346\033
\363\236\331\322\101\124\153\255\237\174\276\031\315\373\106\253
\101\150\036\030\352\125\310\057\221\170\211\050\373\047\051\140
\377\337\217\214\073\311\111\233\265\244\224\316\001\352\076\265
\143\173\177\046\375\031\335\300\041\275\204\321\055\117\106\303
\116\334\330\067\071\073\050\257\313\235\032\352\053\257\041\245
\301\043\042\270\270\033\132\023\207\127\203\321\360\040\347\350
\117\043\102\260\000\245\175\211\351\351\141\163\224\230\161\046
\274\055\152\340\367\115\360\361\266\052\070\061\201\015\051\341
\000\301\121\017\114\122\370\004\132\252\175\162\323\270\207\052
\273\143\020\003\052\263\241\117\015\132\136\106\267\075\016\365
\164\354\231\237\371\075\044\201\210\246\335\140\124\350\225\066
\075\306\011\223\232\243\022\200\000\125\231\031\107\275\320\245
\174\303\272\373\037\367\365\017\370\254\271\265\364\067\230\023
\030\336\205\133\267\014\202\073\207\157\225\071\130\060\332\156
\001\150\027\042\314\300\013\002\003\001\000\001\243\143\060\141
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\006\060\037\006\003\125\035\043\004\030\060\026\200\024\007\303
\121\060\244\252\351\105\256\065\044\372\377\044\054\063\320\261
\235\214\060\035\006\003\125\035\016\004\026\004\024\007\303\121
\060\244\252\351\105\256\065\044\372\377\044\054\063\320\261\235
\214\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000
\003\202\001\001\000\137\076\206\166\156\270\065\074\116\066\034
\036\171\230\277\375\325\022\021\171\122\016\356\061\211\274\335
\177\371\321\306\025\041\350\212\001\124\015\072\373\124\271\326
\143\324\261\252\226\115\242\102\115\324\123\037\213\020\336\177
\145\276\140\023\047\161\210\244\163\343\204\143\321\244\125\341
\120\223\346\033\016\171\320\147\274\106\310\277\077\027\015\225
\346\306\220\151\336\347\264\057\336\225\175\320\022\077\075\076
\177\115\077\024\150\365\021\120\325\301\364\220\245\010\035\061

\140\377\140\214\043\124\012\257\376\241\156\305\321\172\052\150
\170\317\036\202\012\040\264\037\255\345\205\262\152\150\165\116
\255\045\067\224\205\276\275\241\324\352\267\014\113\074\235\350
\022\000\360\137\254\015\341\254\160\143\163\367\177\171\237\062
\045\102\164\005\200\050\277\275\301\044\226\130\025\261\027\041
\351\211\113\333\007\210\147\364\025\255\160\076\057\115\205\073
\302\267\333\376\230\150\043\211\341\164\017\336\364\305\204\143
\051\033\314\313\007\311\000\244\251\327\302\042\117\147\327\167
\354\040\005\141\336
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "RSA Security Inc"
Issuer: OU=RSA Security 2048 V3,O=RSA Security Inc
Serial Number:0a:01:01:01:00:00:02:7c:00:00:00:0a:00:00:00:02
Subject: OU=RSA Security 2048 V3,O=RSA Security Inc
Not Valid Before: Thu Feb 22 20:39:23 2001
Not Valid After: Sun Feb 22 20:39:23 2026
Fingerprint (MD5): 77:0d:19:b1:21:fd:00:42:9c:3e:0c:a5:dd:0b:02:8e
Fingerprint (SHA1): 25:01:90:19:cf:fb:d9:99:1c:b7:68:25:74:8d:94:5f:30:93:95:42
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "RSA Security Inc"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\045\001\220\031\317\373\331\231\034\267\150\045\164\215\224\137
\060\223\225\102
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\167\015\031\261\041\375\000\102\234\076\014\245\335\013\002\216
END
CKA_ISSUER MULTILINE_OCTAL
\060\072\061\031\060\027\006\003\125\004\012\023\020\122\123\101
\040\123\145\143\165\162\151\164\171\040\111\156\143\061\035\060
\033\006\003\125\004\013\023\024\122\123\101\040\123\145\143\165
\162\151\164\171\040\062\060\064\070\040\126\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\012\001\001\001\000\000\002\174\000\000\000\012\000\000
\000\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Public Notary Root"
Issuer: CN=Public Notary Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
Serial Number: 0 (0x0)
Subject: CN=Public Notary Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
Not Valid Before: Tue Sep 30 16:14:49 2003
Not Valid After: Wed Sep 30 16:14:49 2037
Fingerprint (MD5): cd:99:6c:db:2a:c2:96:15:5a:bf:87:9e:ae:a5:ee:93
Fingerprint (SHA1): ee:29:d6:ea:98:e6:32:c6:e5:27:e0:90:6f:02:80:68:8b:df:44:dc
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Public Notary Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\170\061\013\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\033\060
\031\006\003\125\004\003\023\022\120\165\142\154\151\143\040\116
\157\164\141\162\171\040\122\157\157\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\170\061\013\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\033\060
\031\006\003\125\004\003\023\022\120\165\142\154\151\143\040\116
\157\164\141\162\171\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\276\060\202\003\246\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\170\061\013\060\011\006\003\125\004\006\023\002\105\125\061\047
\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155\145
\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101\070

\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004\013
\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150\141
\155\142\145\162\163\151\147\156\056\157\162\147\061\033\060\031
\006\003\125\004\003\023\022\120\165\142\154\151\143\040\116\157
\164\141\162\171\040\122\157\157\164\060\036\027\015\060\063\060
\071\063\060\061\066\061\064\064\071\132\027\015\063\067\060\071
\063\060\061\066\061\064\064\071\132\060\170\061\013\060\011\006
\003\125\004\006\023\002\105\125\061\047\060\045\006\003\125\004
\012\023\036\101\103\040\103\141\155\145\162\146\151\162\155\141
\040\123\101\040\103\111\106\040\101\070\062\067\064\063\062\070
\067\061\043\060\041\006\003\125\004\013\023\032\150\164\164\160
\072\057\057\167\167\167\056\143\150\141\155\142\145\162\163\151
\147\156\056\157\162\147\061\033\060\031\006\003\125\004\003\023
\022\120\165\142\154\151\143\040\116\157\164\141\162\171\040\122
\157\157\164\060\202\001\037\060\015\006\011\052\206\110\206\367
\015\001\001\001\005\000\003\202\001\014\000\060\202\001\007\002
\202\001\000\130\172\002\274\176\354\223\146\355\313\021\116\247
\335\016\313\225\215\307\036\067\141\011\347\000\305\331\351\005
\173\352\374\236\264\323\130\266\031\106\344\150\227\117\201\155
\254\256\001\236\232\100\070\154\170\104\171\170\071\217\347\342
\304\365\172\154\377\062\114\123\313\107\216\326\220\075\254\105
\174\047\312\102\317\176\164\323\251\351\063\116\320\245\230\145
\252\120\014\124\206\035\200\152\216\160\152\235\154\102\053\307
\066\225\300\234\102\021\054\150\150\376\154\376\152\146\275\133
\262\327\245\316\233\120\071\004\235\241\044\037\266\020\157\056
\027\166\344\073\120\173\300\171\002\000\210\333\065\107\345\261
\037\331\047\377\155\065\320\271\154\126\364\265\365\117\164\127
\055\230\162\004\307\031\007\177\176\275\055\125\242\254\216\211
\260\110\053\116\337\164\005\333\124\145\006\065\325\161\074\341
\072\331\064\321\257\136\007\110\034\035\000\164\052\041\005\016
\301\037\167\116\012\345\342\223\200\016\334\126\264\273\006\340
\077\110\102\123\371\011\065\011\145\270\102\163\077\074\215\113
\344\001\245\002\001\003\243\202\001\124\060\202\001\120\060\022
\006\003\125\035\023\001\001\377\004\010\060\006\001\001\377\002
\001\014\060\100\006\003\125\035\037\004\071\060\067\060\065\240
\063\240\061\206\057\150\164\164\160\072\057\057\143\162\154\056
\143\150\141\155\142\145\162\163\151\147\156\056\157\162\147\057
\160\165\142\154\151\143\156\157\164\141\162\171\162\157\157\164
\056\143\162\154\060\035\006\003\125\035\016\004\026\004\024\032
\130\207\314\317\144\306\073\360\242\063\164\111\144\135\006\303
\253\347\371\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\006\060\021\006\011\140\206\110\001\206\370\102\001\001
\004\004\003\002\000\007\060\053\006\003\125\035\021\004\044\060
\042\201\040\160\165\142\154\151\143\156\157\164\141\162\171\162
\157\157\164\100\143\150\141\155\142\145\162\163\151\147\156\056
\157\162\147\060\053\006\003\125\035\022\004\044\060\042\201\040
\160\165\142\154\151\143\156\157\164\141\162\171\162\157\157\164
\100\143\150\141\155\142\145\162\163\151\147\156\056\157\162\147

\060\134\006\003\125\035\040\004\125\060\123\060\121\006\013\053
\006\001\004\001\201\207\056\012\002\001\060\102\060\100\006\010
\053\006\001\005\005\007\002\001\026\064\150\164\164\160\072\057
\057\143\160\163\056\143\150\141\155\142\145\162\163\151\147\156
\056\157\162\147\057\143\160\163\057\160\165\142\154\151\143\156
\157\164\141\162\171\162\157\157\164\056\150\164\155\154\060\015
\006\011\052\206\110\206\367\015\001\001\005\005\000\003\202\001
\001\000\025\050\051\376\270\042\262\125\277\143\037\161\231\001
\344\263\210\155\267\165\267\057\121\231\221\116\352\151\327\135
\260\236\177\112\043\223\270\107\306\176\217\376\176\003\236\211
\226\122\076\057\241\033\366\075\160\303\075\246\336\101\303\104
\020\136\247\047\257\265\017\342\172\223\304\275\314\213\373\274
\266\163\115\037\062\043\244\243\173\320\341\203\135\277\303\236
\301\124\110\103\037\051\056\336\345\317\112\134\354\263\230\131
\273\101\017\205\071\346\006\244\034\277\251\155\232\344\051\141
\074\235\350\035\120\067\266\254\237\060\257\236\347\060\354\046
\374\052\044\241\241\123\250\076\375\021\170\327\000\155\070\262
\270\254\337\322\037\277\206\130\005\357\034\045\305\115\071\032
\054\104\123\122\302\327\040\001\054\302\131\117\276\344\333\026
\325\263\133\372\016\017\366\146\231\302\130\153\227\350\014\020
\055\055\257\313\335\157\043\263\227\235\110\106\172\102\023\002
\241\215\066\137\362\356\326\241\230\352\067\174\351\274\241\030
\226\002\266\312\130\052\032\070\325\262\161\276\170\246\114\367
\352\307
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Public Notary Root"
Issuer: CN=Public Notary Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
Serial Number: 0 (0x0)
Subject: CN=Public Notary Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
A82743287,C=EU
Not Valid Before: Tue Sep 30 16:14:49 2003
Not Valid After: Wed Sep 30 16:14:49 2037
Fingerprint (MD5): cd:99:6c:db:2a:c2:96:15:5a:bf:87:9e:ae:a5:ee:93
Fingerprint (SHA1): ee:29:d6:ea:98:e6:32:c6:e5:27:e0:90:6f:02:80:68:8b:df:44:dc
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Public Notary Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\356\051\326\352\230\346\062\306\345\047\340\220\157\002\200\150
\213\337\104\334
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\315\231\154\333\052\302\226\025\132\277\207\236\256\245\356\223
END
CKA_ISSUER MULTILINE_OCTAL
\060\170\061\013\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\033\060
\031\006\003\125\004\003\023\022\120\165\142\154\151\143\040\116
\157\164\141\162\171\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "GeoTrust Global CA"
Issuer: CN=GeoTrust Global CA,O=GeoTrust Inc.,C=US
Serial Number: 144470 (0x23456)
Subject: CN=GeoTrust Global CA,O=GeoTrust Inc.,C=US
Not Valid Before: Tue May 21 04:00:00 2002
Not Valid After: Sat May 21 04:00:00 2022
Fingerprint (MD5): f7:75:ab:29:fb:51:4e:b7:77:5e:ff:05:3c:99:8e:f5
Fingerprint (SHA1): de:28:f4:a4:ff:e5:b9:2f:a3:c5:03:d1:a3:49:a7:f9:96:2a:82:12
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Global CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\102\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\033\060\031\006\003\125\004\003
\023\022\107\145\157\124\162\165\163\164\040\107\154\157\142\141
\154\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\102\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\033\060\031\006\003\125\004\003

\023\022\107\145\157\124\162\165\163\164\040\107\154\157\142\141
\154\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\002\064\126
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\124\060\202\002\074\240\003\002\001\002\002\003\002
\064\126\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\000\060\102\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162
\165\163\164\040\111\156\143\056\061\033\060\031\006\003\125\004
\003\023\022\107\145\157\124\162\165\163\164\040\107\154\157\142
\141\154\040\103\101\060\036\027\015\060\062\060\065\062\061\060
\064\060\060\060\060\132\027\015\062\062\060\065\062\061\060\064
\060\060\060\060\132\060\102\061\013\060\011\006\003\125\004\006
\023\002\125\123\061\026\060\024\006\003\125\004\012\023\015\107
\145\157\124\162\165\163\164\040\111\156\143\056\061\033\060\031
\006\003\125\004\003\023\022\107\145\157\124\162\165\163\164\040
\107\154\157\142\141\154\040\103\101\060\202\001\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017
\000\060\202\001\012\002\202\001\001\000\332\314\030\143\060\375
\364\027\043\032\126\176\133\337\074\154\070\344\161\267\170\221
\324\274\241\330\114\370\250\103\266\003\351\115\041\007\010\210
\332\130\057\146\071\051\275\005\170\213\235\070\350\005\267\152
\176\161\244\346\304\140\246\260\357\200\344\211\050\017\236\045
\326\355\203\363\255\246\221\307\230\311\102\030\065\024\235\255
\230\106\222\056\117\312\361\207\103\301\026\225\127\055\120\357
\211\055\200\172\127\255\362\356\137\153\322\000\215\271\024\370
\024\025\065\331\300\106\243\173\162\310\221\277\311\125\053\315
\320\227\076\234\046\144\314\337\316\203\031\161\312\116\346\324
\325\173\251\031\315\125\336\310\354\322\136\070\123\345\134\117
\214\055\376\120\043\066\374\146\346\313\216\244\071\031\000\267
\225\002\071\221\013\016\376\070\056\321\035\005\232\366\115\076
\157\017\007\035\257\054\036\217\140\071\342\372\066\123\023\071
\324\136\046\053\333\075\250\024\275\062\353\030\003\050\122\004
\161\345\253\063\075\341\070\273\007\066\204\142\234\171\352\026
\060\364\137\300\053\350\161\153\344\371\002\003\001\000\001\243
\123\060\121\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024\300
\172\230\150\215\211\373\253\005\144\014\021\175\252\175\145\270
\312\314\116\060\037\006\003\125\035\043\004\030\060\026\200\024
\300\172\230\150\215\211\373\253\005\144\014\021\175\252\175\145
\270\312\314\116\060\015\006\011\052\206\110\206\367\015\001\001
\005\005\000\003\202\001\001\000\065\343\051\152\345\057\135\124
\216\051\120\224\237\231\032\024\344\217\170\052\142\224\242\047
\147\236\320\317\032\136\107\351\301\262\244\317\335\101\032\005
\116\233\113\356\112\157\125\122\263\044\241\067\012\353\144\166

\052\056\054\363\375\073\165\220\277\372\161\330\307\075\067\322
\265\005\225\142\271\246\336\211\075\066\173\070\167\110\227\254
\246\040\217\056\246\311\014\302\262\231\105\000\307\316\021\121
\042\042\340\245\352\266\025\110\011\144\352\136\117\164\367\005
\076\307\212\122\014\333\025\264\275\155\233\345\306\261\124\150
\251\343\151\220\266\232\245\017\270\271\077\040\175\256\112\265
\270\234\344\035\266\253\346\224\245\301\307\203\255\333\365\047
\207\016\004\154\325\377\335\240\135\355\207\122\267\053\025\002
\256\071\246\152\164\351\332\304\347\274\115\064\036\251\134\115
\063\137\222\011\057\210\146\135\167\227\307\035\166\023\251\325
\345\361\026\011\021\065\325\254\333\044\161\160\054\230\126\013
\331\027\264\321\343\121\053\136\165\350\325\320\334\117\064\355
\302\005\146\200\241\313\346\063
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "GeoTrust Global CA"
Issuer: CN=GeoTrust Global CA,O=GeoTrust Inc.,C=US
Serial Number: 144470 (0x23456)
Subject: CN=GeoTrust Global CA,O=GeoTrust Inc.,C=US
Not Valid Before: Tue May 21 04:00:00 2002
Not Valid After: Sat May 21 04:00:00 2022
Fingerprint (MD5): f7:75:ab:29:fb:51:4e:b7:77:5e:ff:05:3c:99:8e:f5
Fingerprint (SHA1): de:28:f4:a4:ff:e5:b9:2f:a3:c5:03:d1:a3:49:a7:f9:96:2a:82:12
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Global CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\336\050\364\244\377\345\271\057\243\305\003\321\243\111\247\371
\226\052\202\022
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\367\165\253\051\373\121\116\267\167\136\377\005\074\231\216\365
END
CKA_ISSUER MULTILINE_OCTAL
\060\102\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\033\060\031\006\003\125\004\003
\023\022\107\145\157\124\162\165\163\164\040\107\154\157\142\141
\154\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\002\064\126

END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "GeoTrust Global CA 2"
Issuer: CN=GeoTrust Global CA 2,O=GeoTrust Inc.,C=US
Serial Number: 1 (0x1)
Subject: CN=GeoTrust Global CA 2,O=GeoTrust Inc.,C=US
Not Valid Before: Thu Mar 04 05:00:00 2004
Not Valid After: Mon Mar 04 05:00:00 2019
Fingerprint (MD5): 0e:40:a7:6c:de:03:5d:8f:d1:0f:e4:d1:8d:f9:6c:a9
Fingerprint (SHA1): a9:e9:78:08:14:37:58:88:f2:05:19:b0:6d:2b:0d:2b:60:16:90:7d
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Global CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\035\060\033\006\003\125\004\003
\023\024\107\145\157\124\162\165\163\164\040\107\154\157\142\141
\154\040\103\101\040\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\035\060\033\006\003\125\004\003
\023\024\107\145\157\124\162\165\163\164\040\107\154\157\142\141
\154\040\103\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\146\060\202\002\116\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061\026
\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165\163
\164\040\111\156\143\056\061\035\060\033\006\003\125\004\003\023
\024\107\145\157\124\162\165\163\164\040\107\154\157\142\141\154
\040\103\101\040\062\060\036\027\015\060\064\060\063\060\064\060
\065\060\060\060\060\132\027\015\061\071\060\063\060\064\060\065

\060\060\060\060\132\060\104\061\013\060\011\006\003\125\004\006
\023\002\125\123\061\026\060\024\006\003\125\004\012\023\015\107
\145\157\124\162\165\163\164\040\111\156\143\056\061\035\060\033
\006\003\125\004\003\023\024\107\145\157\124\162\165\163\164\040
\107\154\157\142\141\154\040\103\101\040\062\060\202\001\042\060
\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202
\001\017\000\060\202\001\012\002\202\001\001\000\357\074\115\100
\075\020\337\073\123\000\341\147\376\224\140\025\076\205\210\361
\211\015\220\310\050\043\231\005\350\053\040\235\306\363\140\106
\330\301\262\325\214\061\331\334\040\171\044\201\277\065\062\374
\143\151\333\261\052\153\356\041\130\362\010\351\170\313\157\313
\374\026\122\310\221\304\377\075\163\336\261\076\247\302\175\146
\301\365\176\122\044\032\342\325\147\221\320\202\020\327\170\113
\117\053\102\071\275\144\055\100\240\260\020\323\070\110\106\210
\241\014\273\072\063\052\142\230\373\000\235\023\131\177\157\073
\162\252\356\246\017\206\371\005\141\352\147\177\014\067\226\213
\346\151\026\107\021\302\047\131\003\263\246\140\302\041\100\126
\372\240\307\175\072\023\343\354\127\307\263\326\256\235\211\200
\367\001\347\054\366\226\053\023\015\171\054\331\300\344\206\173
\113\214\014\162\202\212\373\027\315\000\154\072\023\074\260\204
\207\113\026\172\051\262\117\333\035\324\013\363\146\067\275\330
\366\127\273\136\044\172\270\074\213\271\372\222\032\032\204\236
\330\164\217\252\033\177\136\364\376\105\042\041\002\003\001\000
\001\243\143\060\141\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004
\024\161\070\066\362\002\061\123\107\053\156\272\145\106\251\020
\025\130\040\005\011\060\037\006\003\125\035\043\004\030\060\026
\200\024\161\070\066\362\002\061\123\107\053\156\272\145\106\251
\020\025\130\040\005\011\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\206\060\015\006\011\052\206\110\206\367\015
\001\001\005\005\000\003\202\001\001\000\003\367\265\053\253\135
\020\374\173\262\262\136\254\233\016\176\123\170\131\076\102\004
\376\165\243\255\254\201\116\327\002\213\136\304\055\310\122\166
\307\054\037\374\201\062\230\321\113\306\222\223\063\065\061\057
\374\330\035\104\335\340\201\177\235\351\213\341\144\221\142\013
\071\010\214\254\164\235\131\331\172\131\122\227\021\271\026\173
\157\105\323\226\331\061\175\002\066\017\234\073\156\317\054\015
\003\106\105\353\240\364\177\110\104\306\010\100\314\336\033\160
\265\051\255\272\213\073\064\145\165\033\161\041\035\054\024\012
\260\226\225\270\326\352\362\145\373\051\272\117\352\221\223\164
\151\266\362\377\341\032\320\014\321\166\205\313\212\045\275\227
\136\054\157\025\231\046\347\266\051\377\042\354\311\002\307\126
\000\315\111\271\263\154\173\123\004\032\342\250\311\252\022\005
\043\302\316\347\273\004\002\314\300\107\242\344\304\051\057\133
\105\127\211\121\356\074\353\122\010\377\007\065\036\237\065\152
\107\112\126\230\321\132\205\037\214\365\042\277\253\316\203\363
\342\042\051\256\175\203\100\250\272\154
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "GeoTrust Global CA 2"
Issuer: CN=GeoTrust Global CA 2,O=GeoTrust Inc.,C=US
Serial Number: 1 (0x1)
Subject: CN=GeoTrust Global CA 2,O=GeoTrust Inc.,C=US
Not Valid Before: Thu Mar 04 05:00:00 2004
Not Valid After: Mon Mar 04 05:00:00 2019
Fingerprint (MD5): 0e:40:a7:6c:de:03:5d:8f:d1:0f:e4:d1:8d:f9:6c:a9
Fingerprint (SHA1): a9:e9:78:08:14:37:58:88:f2:05:19:b0:6d:2b:0d:2b:60:16:90:7d
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Global CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\251\351\170\010\024\067\130\210\362\005\031\260\155\053\015\053
\140\026\220\175
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\016\100\247\154\336\003\135\217\321\017\344\321\215\371\154\251
END
CKA_ISSUER MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\035\060\033\006\003\125\004\003
\023\024\107\145\157\124\162\165\163\164\040\107\154\157\142\141
\154\040\103\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "GeoTrust Universal CA"
Issuer: CN=GeoTrust Universal CA,O=GeoTrust Inc.,C=US
Serial Number: 1 (0x1)
Subject: CN=GeoTrust Universal CA,O=GeoTrust Inc.,C=US
Not Valid Before: Thu Mar 04 05:00:00 2004
Not Valid After: Sun Mar 04 05:00:00 2029
Fingerprint (MD5): 92:65:58:8b:a2:1a:31:72:73:68:5c:b4:a5:7a:07:48

Fingerprint (SHA1): e6:21:f3:35:43:79:05:9a:4b:68:30:9d:8a:2f:74:22:15:87:ec:79
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Universal CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\036\060\034\006\003\125\004\003
\023\025\107\145\157\124\162\165\163\164\040\125\156\151\166\145
\162\163\141\154\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\036\060\034\006\003\125\004\003
\023\025\107\145\157\124\162\165\163\164\040\125\156\151\166\145
\162\163\141\154\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\150\060\202\003\120\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\105\061\013\060\011\006\003\125\004\006\023\002\125\123\061\026
\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165\163
\164\040\111\156\143\056\061\036\060\034\006\003\125\004\003\023
\025\107\145\157\124\162\165\163\164\040\125\156\151\166\145\162
\163\141\154\040\103\101\060\036\027\015\060\064\060\063\060\064
\060\065\060\060\060\060\132\027\015\062\071\060\063\060\064\060
\065\060\060\060\060\132\060\105\061\013\060\011\006\003\125\004
\006\023\002\125\123\061\026\060\024\006\003\125\004\012\023\015
\107\145\157\124\162\165\163\164\040\111\156\143\056\061\036\060
\034\006\003\125\004\003\023\025\107\145\157\124\162\165\163\164
\040\125\156\151\166\145\162\163\141\154\040\103\101\060\202\002
\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000
\003\202\002\017\000\060\202\002\012\002\202\002\001\000\246\025
\125\240\243\306\340\037\214\235\041\120\327\301\276\053\133\265
\244\236\241\331\162\130\275\000\033\114\277\141\311\024\035\105
\202\253\306\035\200\326\075\353\020\234\072\257\155\044\370\274
\161\001\236\006\365\174\137\036\301\016\125\312\203\232\131\060
\256\031\313\060\110\225\355\042\067\215\364\112\232\162\146\076
\255\225\300\340\026\000\340\020\037\053\061\016\327\224\124\323
\102\063\240\064\035\036\105\166\335\117\312\030\067\354\205\025

\172\031\010\374\325\307\234\360\362\251\056\020\251\222\346\075
\130\075\251\026\150\074\057\165\041\030\177\050\167\245\341\141
\027\267\246\351\370\036\231\333\163\156\364\012\242\041\154\356
\332\252\205\222\146\257\366\172\153\202\332\272\042\010\065\017
\317\102\361\065\372\152\356\176\053\045\314\072\021\344\155\257
\163\262\166\035\255\320\262\170\147\032\244\071\034\121\013\147
\126\203\375\070\135\015\316\335\360\273\053\226\037\336\173\062
\122\375\035\273\265\006\241\262\041\136\245\326\225\150\177\360
\231\236\334\105\010\076\347\322\011\015\065\224\335\200\116\123
\227\327\265\011\104\040\144\026\027\003\002\114\123\015\150\336
\325\252\162\115\223\155\202\016\333\234\275\317\264\363\134\135
\124\172\151\011\226\326\333\021\301\215\165\250\264\317\071\310
\316\074\274\044\174\346\142\312\341\275\175\247\275\127\145\013
\344\376\045\355\266\151\020\334\050\032\106\275\001\035\320\227
\265\341\230\073\300\067\144\326\075\224\356\013\341\365\050\256
\013\126\277\161\213\043\051\101\216\206\305\113\122\173\330\161
\253\037\212\025\246\073\203\132\327\130\001\121\306\114\101\331
\177\330\101\147\162\242\050\337\140\203\251\236\310\173\374\123
\163\162\131\365\223\172\027\166\016\316\367\345\134\331\013\125
\064\242\252\133\265\152\124\347\023\312\127\354\227\155\364\136
\006\057\105\213\130\324\043\026\222\344\026\156\050\143\131\060
\337\120\001\234\143\211\032\237\333\027\224\202\160\067\303\044
\236\232\107\326\132\312\116\250\151\211\162\037\221\154\333\176
\236\033\255\307\037\163\335\054\117\031\145\375\177\223\100\020
\056\322\360\355\074\236\056\050\076\151\046\063\305\173\002\003
\001\000\001\243\143\060\141\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004
\026\004\024\332\273\056\252\260\014\270\210\046\121\164\134\155
\003\323\300\330\217\172\326\060\037\006\003\125\035\043\004\030
\060\026\200\024\332\273\056\252\260\014\270\210\046\121\164\134
\155\003\323\300\330\217\172\326\060\016\006\003\125\035\017\001
\001\377\004\004\003\002\001\206\060\015\006\011\052\206\110\206
\367\015\001\001\005\005\000\003\202\002\001\000\061\170\346\307
\265\337\270\224\100\311\161\304\250\065\354\106\035\302\205\363
\050\130\206\260\013\374\216\262\071\217\104\125\253\144\204\134
\151\251\320\232\070\074\372\345\037\065\345\104\343\200\171\224
\150\244\273\304\237\075\341\064\315\060\106\213\124\053\225\245
\357\367\077\231\204\375\065\346\317\061\306\334\152\277\247\327
\043\010\341\230\136\303\132\010\166\251\246\257\167\057\267\140
\275\104\106\152\357\227\377\163\225\301\216\350\223\373\375\061
\267\354\127\021\021\105\233\060\361\032\210\071\301\117\074\247
\000\325\307\374\253\155\200\042\160\245\014\340\135\004\051\002
\373\313\240\221\321\174\326\303\176\120\325\235\130\276\101\070
\353\271\165\074\025\331\233\311\112\203\131\300\332\123\375\063
\273\066\030\233\205\017\025\335\356\055\254\166\223\271\331\001
\215\110\020\250\373\365\070\206\361\333\012\306\275\204\243\043
\101\336\326\167\157\205\324\205\034\120\340\256\121\212\272\215
\076\166\342\271\312\047\362\137\237\357\156\131\015\006\330\053

\027\244\322\174\153\273\137\024\032\110\217\032\114\347\263\107
\034\216\114\105\053\040\356\110\337\347\335\011\216\030\250\332
\100\215\222\046\021\123\141\163\135\353\275\347\304\115\051\067
\141\353\254\071\055\147\056\026\326\365\000\203\205\241\314\177
\166\304\175\344\267\113\146\357\003\105\140\151\266\014\122\226
\222\204\136\246\243\265\244\076\053\331\314\330\033\107\252\362
\104\332\117\371\003\350\360\024\313\077\363\203\336\320\301\124
\343\267\350\012\067\115\213\040\131\003\060\031\241\054\310\275
\021\037\337\256\311\112\305\363\047\146\146\206\254\150\221\377
\331\346\123\034\017\213\134\151\145\012\046\310\036\064\303\135
\121\173\327\251\234\006\241\066\335\325\211\224\274\331\344\055
\014\136\011\154\010\227\174\243\075\174\223\377\077\241\024\247
\317\265\135\353\333\333\034\304\166\337\210\271\275\105\005\225
\033\256\374\106\152\114\257\110\343\316\256\017\322\176\353\346
\154\234\117\201\152\172\144\254\273\076\325\347\313\166\056\305
\247\110\301\134\220\017\313\310\077\372\346\062\341\215\033\157
\244\346\216\330\371\051\110\212\316\163\376\054
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "GeoTrust Universal CA"
Issuer: CN=GeoTrust Universal CA,O=GeoTrust Inc.,C=US
Serial Number: 1 (0x1)
Subject: CN=GeoTrust Universal CA,O=GeoTrust Inc.,C=US
Not Valid Before: Thu Mar 04 05:00:00 2004
Not Valid After: Sun Mar 04 05:00:00 2029
Fingerprint (MD5): 92:65:58:8b:a2:1a:31:72:73:68:5c:b4:a5:7a:07:48
Fingerprint (SHA1): e6:21:f3:35:43:79:05:9a:4b:68:30:9d:8a:2f:74:22:15:87:ec:79
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Universal CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\346\041\363\065\103\171\005\232\113\150\060\235\212\057\164\042
\025\207\354\171
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\222\145\130\213\242\032\061\162\163\150\134\264\245\172\007\110
END
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\036\060\034\006\003\125\004\003
\023\025\107\145\157\124\162\165\163\164\040\125\156\151\166\145

\162\163\141\154\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "GeoTrust Universal CA 2"
Issuer: CN=GeoTrust Universal CA 2,O=GeoTrust Inc.,C=US
Serial Number: 1 (0x1)
Subject: CN=GeoTrust Universal CA 2,O=GeoTrust Inc.,C=US
Not Valid Before: Thu Mar 04 05:00:00 2004
Not Valid After: Sun Mar 04 05:00:00 2029
Fingerprint (MD5): 34:fc:b8:d0:36:db:9e:14:b3:c2:f2:db:8f:e4:94:c7
Fingerprint (SHA1): 37:9a:19:7b:41:85:45:35:0c:a6:03:69:f3:3c:2e:af:47:4f:20:79
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Universal CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\040\060\036\006\003\125\004\003
\023\027\107\145\157\124\162\165\163\164\040\125\156\151\166\145
\162\163\141\154\040\103\101\040\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\040\060\036\006\003\125\004\003
\023\027\107\145\157\124\162\165\163\164\040\125\156\151\166\145
\162\163\141\154\040\103\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\154\060\202\003\124\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061\026
\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165\163

\164\040\111\156\143\056\061\040\060\036\006\003\125\004\003\023
\027\107\145\157\124\162\165\163\164\040\125\156\151\166\145\162
\163\141\154\040\103\101\040\062\060\036\027\015\060\064\060\063
\060\064\060\065\060\060\060\060\132\027\015\062\071\060\063\060
\064\060\065\060\060\060\060\132\060\107\061\013\060\011\006\003
\125\004\006\023\002\125\123\061\026\060\024\006\003\125\004\012
\023\015\107\145\157\124\162\165\163\164\040\111\156\143\056\061
\040\060\036\006\003\125\004\003\023\027\107\145\157\124\162\165
\163\164\040\125\156\151\166\145\162\163\141\154\040\103\101\040
\062\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002
\001\000\263\124\122\301\311\076\362\331\334\261\123\032\131\051
\347\261\303\105\050\345\327\321\355\305\305\113\241\252\164\173
\127\257\112\046\374\330\365\136\247\156\031\333\164\014\117\065
\133\062\013\001\343\333\353\172\167\065\352\252\132\340\326\350
\241\127\224\360\220\243\164\126\224\104\060\003\036\134\116\053
\205\046\164\202\172\014\166\240\157\115\316\101\055\240\025\006
\024\137\267\102\315\173\217\130\141\064\334\052\010\371\056\303
\001\246\042\104\034\114\007\202\346\133\316\320\112\174\004\323
\031\163\047\360\252\230\177\056\257\116\353\207\036\044\167\152
\135\266\350\133\105\272\334\303\241\005\157\126\216\217\020\046
\245\111\303\056\327\101\207\042\340\117\206\312\140\265\352\241
\143\300\001\227\020\171\275\000\074\022\155\053\025\261\254\113
\261\356\030\271\116\226\334\334\166\377\073\276\317\137\003\300
\374\073\350\276\106\033\377\332\100\302\122\367\376\343\072\367
\152\167\065\320\332\215\353\136\030\152\061\307\036\272\074\033
\050\326\153\124\306\252\133\327\242\054\033\031\314\242\002\366
\233\131\275\067\153\206\265\155\202\272\330\352\311\126\274\251
\066\130\375\076\031\363\355\014\046\251\223\070\370\117\301\135
\042\006\320\227\352\341\255\306\125\340\201\053\050\203\072\372
\364\173\041\121\000\276\122\070\316\315\146\171\250\364\201\126
\342\320\203\011\107\121\133\120\152\317\333\110\032\135\076\367
\313\366\145\367\154\361\225\370\002\073\062\126\202\071\172\133
\275\057\211\033\277\241\264\350\377\177\215\214\337\003\361\140
\116\130\021\114\353\243\077\020\053\203\232\001\163\331\224\155
\204\000\047\146\254\360\160\100\011\102\222\255\117\223\015\141
\011\121\044\330\222\325\013\224\141\262\207\262\355\377\232\065
\377\205\124\312\355\104\103\254\033\074\026\153\110\112\012\034
\100\210\037\222\302\013\000\005\377\362\310\002\112\244\252\251
\314\231\226\234\057\130\340\175\341\276\273\007\334\137\004\162
\134\061\064\303\354\137\055\340\075\144\220\042\346\321\354\270
\056\335\131\256\331\241\067\277\124\065\334\163\062\117\214\004
\036\063\262\311\106\361\330\134\310\125\120\311\150\275\250\272
\066\011\002\003\001\000\001\243\143\060\141\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003
\125\035\016\004\026\004\024\166\363\125\341\372\244\066\373\360
\237\134\142\161\355\074\364\107\070\020\053\060\037\006\003\125
\035\043\004\030\060\026\200\024\166\363\125\341\372\244\066\373

\360\237\134\142\161\355\074\364\107\070\020\053\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\206\060\015\006\011
\052\206\110\206\367\015\001\001\005\005\000\003\202\002\001\000
\146\301\306\043\363\331\340\056\156\137\350\317\256\260\260\045
\115\053\370\073\130\233\100\044\067\132\313\253\026\111\377\263
\165\171\063\241\057\155\160\027\064\221\376\147\176\217\354\233
\345\136\202\251\125\037\057\334\324\121\007\022\376\254\026\076
\054\065\306\143\374\334\020\353\015\243\252\320\174\314\321\320
\057\121\056\304\024\132\336\350\031\341\076\306\314\244\051\347
\056\204\252\006\060\170\166\124\163\050\230\131\070\340\000\015
\142\323\102\175\041\237\256\075\072\214\325\372\167\015\030\053
\026\016\137\066\341\374\052\265\060\044\317\340\143\014\173\130
\032\376\231\272\102\022\261\221\364\174\150\342\310\350\257\054
\352\311\176\256\273\052\075\015\025\334\064\225\266\030\164\250
\152\017\307\264\364\023\304\344\133\355\012\322\244\227\114\052
\355\057\154\022\211\075\361\047\160\252\152\003\122\041\237\100
\250\147\120\362\363\132\037\337\337\043\366\334\170\116\346\230
\117\125\072\123\343\357\362\364\237\307\174\330\130\257\051\042
\227\270\340\275\221\056\260\166\354\127\021\317\357\051\104\363
\351\205\172\140\143\344\135\063\211\027\331\061\252\332\326\363
\030\065\162\317\207\053\057\143\043\204\135\204\214\077\127\240
\210\374\231\221\050\046\151\231\324\217\227\104\276\216\325\110
\261\244\050\051\361\025\264\341\345\236\335\370\217\246\157\046
\327\011\074\072\034\021\016\246\154\067\367\255\104\207\054\050
\307\330\164\202\263\320\157\112\127\273\065\051\047\240\213\350
\041\247\207\144\066\135\314\330\026\254\307\262\047\100\222\125
\070\050\215\121\156\335\024\147\123\154\161\134\046\204\115\165
\132\266\176\140\126\251\115\255\373\233\036\227\363\015\331\322
\227\124\167\332\075\022\267\340\036\357\010\006\254\371\205\207
\351\242\334\257\176\030\022\203\375\126\027\101\056\325\051\202
\175\231\364\061\366\161\251\317\054\001\047\245\005\271\252\262
\110\116\052\357\237\223\122\121\225\074\122\163\216\126\114\027
\100\300\011\050\344\213\152\110\123\333\354\315\125\125\361\306
\370\351\242\054\114\246\321\046\137\176\257\132\114\332\037\246
\362\034\054\176\256\002\026\322\126\320\057\127\123\107\350\222
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "GeoTrust Universal CA 2"
Issuer: CN=GeoTrust Universal CA 2,O=GeoTrust Inc.,C=US
Serial Number: 1 (0x1)
Subject: CN=GeoTrust Universal CA 2,O=GeoTrust Inc.,C=US
Not Valid Before: Thu Mar 04 05:00:00 2004
Not Valid After: Sun Mar 04 05:00:00 2029
Fingerprint (MD5): 34:fc:b8:d0:36:db:9e:14:b3:c2:f2:db:8f:e4:94:c7

Fingerprint (SHA1): 37:9a:19:7b:41:85:45:35:0c:a6:03:69:f3:3c:2e:af:47:4f:20:79
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Universal CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\067\232\031\173\101\205\105\065\014\246\003\151\363\074\056\257
\107\117\040\171
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\064\374\270\320\066\333\236\024\263\302\362\333\217\344\224\307
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\040\060\036\006\003\125\004\003
\023\027\107\145\157\124\162\165\163\164\040\125\156\151\166\145
\162\163\141\154\040\103\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "QuoVadis Root Certification Authority"
Issuer: CN=QuoVadis Root Certification Authority,OU=Root Certification Authority,O=QuoVadis Limited,C=BM
Serial Number:3a:b6:50:8b
Subject: CN=QuoVadis Root Certification Authority,OU=Root Certification Authority,O=QuoVadis Limited,C=BM
Not Valid Before: Mon Mar 19 18:33:33 2001
Not Valid After: Wed Mar 17 18:33:33 2021
Fingerprint (MD5): 27:de:36:fe:72:b7:00:03:00:9d:f4:f0:1e:6c:04:24
Fingerprint (SHA1): de:3f:40:bd:50:93:d3:9b:6c:60:f6:da:bc:07:62:01:00:89:76:c9
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144

\151\163\040\114\151\155\151\164\145\144\061\045\060\043\006\003
\125\004\013\023\034\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\061\056\060\054\006\003\125\004\003\023\045\121\165\157\126
\141\144\151\163\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\045\060\043\006\003
\125\004\013\023\034\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\061\056\060\054\006\003\125\004\003\023\045\121\165\157\126
\141\144\151\163\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\072\266\120\213
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\320\060\202\004\270\240\003\002\001\002\002\004\072
\266\120\213\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\060\177\061\013\060\011\006\003\125\004\006\023\002\102
\115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126
\141\144\151\163\040\114\151\155\151\164\145\144\061\045\060\043
\006\003\125\004\013\023\034\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\061\056\060\054\006\003\125\004\003\023\045\121\165
\157\126\141\144\151\163\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\060\036\027\015\060\061\060\063\061\071\061\070\063
\063\063\063\132\027\015\062\061\060\063\061\067\061\070\063\063
\063\063\132\060\177\061\013\060\011\006\003\125\004\006\023\002
\102\115\061\031\060\027\006\003\125\004\012\023\020\121\165\157
\126\141\144\151\163\040\114\151\155\151\164\145\144\061\045\060
\043\006\003\125\004\013\023\034\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171\061\056\060\054\006\003\125\004\003\023\045\121
\165\157\126\141\144\151\163\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171\060\202\001\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001\012
\002\202\001\001\000\277\141\265\225\123\272\127\374\372\362\147
\013\072\032\337\021\200\144\225\264\321\274\315\172\317\366\051

\226\056\044\124\100\044\070\367\032\205\334\130\114\313\244\047
\102\227\320\237\203\212\303\344\006\003\133\000\245\121\036\160
\004\164\342\301\324\072\253\327\255\073\007\030\005\216\375\203
\254\352\146\331\030\033\150\212\365\127\032\230\272\365\355\166
\075\174\331\336\224\152\073\113\027\301\325\217\275\145\070\072
\225\320\075\125\066\116\337\171\127\061\052\036\330\131\145\111
\130\040\230\176\253\137\176\237\351\326\115\354\203\164\251\307
\154\330\356\051\112\205\052\006\024\371\124\346\323\332\145\007
\213\143\067\022\327\320\354\303\173\040\101\104\243\355\313\240
\027\341\161\145\316\035\146\061\367\166\001\031\310\175\003\130
\266\225\111\035\246\022\046\350\306\014\166\340\343\146\313\352
\135\246\046\356\345\314\137\275\147\247\001\047\016\242\312\124
\305\261\172\225\035\161\036\112\051\212\003\334\152\105\301\244
\031\136\157\066\315\303\242\260\267\376\134\070\342\122\274\370
\104\103\346\220\273\002\003\001\000\001\243\202\002\122\060\202
\002\116\060\075\006\010\053\006\001\005\005\007\001\001\004\061
\060\057\060\055\006\010\053\006\001\005\005\007\060\001\206\041
\150\164\164\160\163\072\057\057\157\143\163\160\056\161\165\157
\166\141\144\151\163\157\146\146\163\150\157\162\145\056\143\157
\155\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\202\001\032\006\003\125\035\040\004\202\001\021\060
\202\001\015\060\202\001\011\006\011\053\006\001\004\001\276\130
\000\001\060\201\373\060\201\324\006\010\053\006\001\005\005\007
\002\002\060\201\307\032\201\304\122\145\154\151\141\156\143\145
\040\157\156\040\164\150\145\040\121\165\157\126\141\144\151\163
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\145\040\142\171\040\141\156\171\040\160\141\162\164\171\040\141
\163\163\165\155\145\163\040\141\143\143\145\160\164\141\156\143
\145\040\157\146\040\164\150\145\040\164\150\145\156\040\141\160
\160\154\151\143\141\142\154\145\040\163\164\141\156\144\141\162
\144\040\164\145\162\155\163\040\141\156\144\040\143\157\156\144
\151\164\151\157\156\163\040\157\146\040\165\163\145\054\040\143
\145\162\164\151\146\151\143\141\164\151\157\156\040\160\162\141
\143\164\151\143\145\163\054\040\141\156\144\040\164\150\145\040
\121\165\157\126\141\144\151\163\040\103\145\162\164\151\146\151
\143\141\164\145\040\120\157\154\151\143\171\056\060\042\006\010
\053\006\001\005\005\007\002\001\026\026\150\164\164\160\072\057
\057\167\167\167\056\161\165\157\166\141\144\151\163\056\142\155
\060\035\006\003\125\035\016\004\026\004\024\213\113\155\355\323
\051\271\006\031\354\071\071\251\360\227\204\152\313\357\337\060
\201\256\006\003\125\035\043\004\201\246\060\201\243\200\024\213
\113\155\355\323\051\271\006\031\354\071\071\251\360\227\204\152
\313\357\337\241\201\204\244\201\201\060\177\061\013\060\011\006
\003\125\004\006\023\002\102\115\061\031\060\027\006\003\125\004
\012\023\020\121\165\157\126\141\144\151\163\040\114\151\155\151
\164\145\144\061\045\060\043\006\003\125\004\013\023\034\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\061\056\060\054\006\003

\125\004\003\023\045\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\202\004\072\266\120\213
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\006
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\003
\202\001\001\000\212\324\024\265\376\364\232\222\247\031\324\244
\176\162\030\217\331\150\174\122\044\335\147\157\071\172\304\252
\136\075\342\130\260\115\160\230\204\141\350\033\343\151\030\016
\316\373\107\120\240\116\377\360\044\037\275\262\316\365\047\374
\354\057\123\252\163\173\003\075\164\156\346\026\236\353\245\056
\304\277\126\047\120\053\142\272\276\113\034\074\125\134\101\035
\044\276\202\040\107\135\325\104\176\172\026\150\337\175\115\121
\160\170\127\035\063\036\375\002\231\234\014\315\012\005\117\307
\273\216\244\165\372\112\155\261\200\216\011\126\271\234\032\140
\376\135\301\327\172\334\021\170\320\326\135\301\267\325\255\062
\231\003\072\212\314\124\045\071\061\201\173\023\042\121\272\106
\154\241\273\236\372\004\154\111\046\164\217\322\163\353\314\060
\242\346\352\131\042\207\370\227\365\016\375\352\314\222\244\026
\304\122\030\352\041\316\261\361\346\204\201\345\272\251\206\050
\362\103\132\135\022\235\254\036\331\250\345\012\152\247\177\240
\207\051\317\362\211\115\324\354\305\342\346\172\320\066\043\212
\112\164\066\371
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "QuoVadis Root Certification Authority"
Issuer: CN=QuoVadis Root Certification Authority,OU=Root Certification Authority,O=QuoVadis Limited,C=BM
Serial Number:3a:b6:50:8b
Subject: CN=QuoVadis Root Certification Authority,OU=Root Certification Authority,O=QuoVadis Limited,C=BM
Not Valid Before: Mon Mar 19 18:33:33 2001
Not Valid After: Wed Mar 17 18:33:33 2021
Fingerprint (MD5): 27:de:36:fe:72:b7:00:03:00:9d:f4:f0:1e:6c:04:24
Fingerprint (SHA1): de:3f:40:bd:50:93:d3:9b:6c:60:f6:da:bc:07:62:01:00:89:76:c9
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\336\077\100\275\120\223\323\233\154\140\366\332\274\007\142\001
\000\211\166\311
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL

\047\336\066\376\162\267\000\003\000\235\364\360\036\154\004\044
END
CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\045\060\043\006\003
\125\004\013\023\034\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\061\056\060\054\006\003\125\004\003\023\045\121\165\157\126
\141\144\151\163\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\072\266\120\213
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Autoridade Certificadora Raiz Brasileira"
Issuer: CN=Autoridade Certificadora Raiz Brasileira,ST=DF,L=Brasilia,OU=Instituto Nacional de Tecnologia da Informacao - ITI,O=ICP-Brasil,C=BR
Serial Number: 4 (0x4)
Subject: CN=Autoridade Certificadora Raiz Brasileira,ST=DF,L=Brasilia,OU=Instituto Nacional de Tecnologia da Informacao - ITI,O=ICP-Brasil,C=BR
Not Valid Before: Fri Nov 30 12:58:00 2001
Not Valid After: Wed Nov 30 23:59:00 2011
Fingerprint (MD5): 96:89:7d:61:d1:55:2b:27:e2:5a:39:b4:2a:6c:44:6f
Fingerprint (SHA1): 8e:fd:ca:bc:93:e6:1e:92:5d:4d:1d:ed:18:1a:43:20:a4:67:a1:39
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridade Certificadora Raiz Brasileira"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\264\061\013\060\011\006\003\125\004\006\023\002\102\122
\061\023\060\021\006\003\125\004\012\023\012\111\103\120\055\102
\162\141\163\151\154\061\075\060\073\006\003\125\004\013\023\064
\111\156\163\164\151\164\165\164\157\040\116\141\143\151\157\156
\141\154\040\144\145\040\124\145\143\156\157\154\157\147\151\141
\040\144\141\040\111\156\146\157\162\155\141\143\141\157\040\055
\040\111\124\111\061\021\060\017\006\003\125\004\007\023\010\102
\162\141\163\151\154\151\141\061\013\060\011\006\003\125\004\010
\023\002\104\106\061\061\060\057\006\003\125\004\003\023\050\101

\165\164\157\162\151\144\141\144\145\040\103\145\162\164\151\146
\151\143\141\144\157\162\141\040\122\141\151\172\040\102\162\141
\163\151\154\145\151\162\141
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\264\061\013\060\011\006\003\125\004\006\023\002\102\122
\061\023\060\021\006\003\125\004\012\023\012\111\103\120\055\102
\162\141\163\151\154\061\075\060\073\006\003\125\004\013\023\064
\111\156\163\164\151\164\165\164\157\040\116\141\143\151\157\156
\141\154\040\144\145\040\124\145\143\156\157\154\157\147\151\141
\040\144\141\040\111\156\146\157\162\155\141\143\141\157\040\055
\040\111\124\111\061\021\060\017\006\003\125\004\007\023\010\102
\162\141\163\151\154\151\141\061\013\060\011\006\003\125\004\010
\023\002\104\106\061\061\060\057\006\003\125\004\003\023\050\101
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CKA_SERIAL_NUMBER MULTILINE_OCTAL
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\201\264\061\013\060\011\006\003\125\004\006\023\002\102\122\061
\023\060\021\006\003\125\004\012\023\012\111\103\120\055\102\162
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\141\163\151\154\151\141\061\013\060\011\006\003\125\004\010\023
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\143\141\144\157\162\141\040\122\141\151\172\040\102\162\141\163
\151\154\145\151\162\141\060\036\027\015\060\061\061\061\063\060
\061\062\065\070\060\060\132\027\015\061\061\061\061\063\060\062
\063\065\071\060\060\132\060\201\264\061\013\060\011\006\003\125
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\102\217\136\232\307\076\307\251\270\125\154\044\366\052\214\145
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\307\074\242\112\133\036\226\275\275\343\063\264\065\102\366\303
\311\353\103\026\136\036\232\235\122\250\325\107\013\161\265\021
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\163\151\154\056\147\157\166\056\142\162\057\114\103\122\141\143
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\367\015\001\001\005\005\000\003\202\001\001\000\031\003\227\065
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\066\126\252\125\167\323\366\307\026\230\374\210\032\033\045\051
\271\270\072\155\355\070\253\142\035\124\305\355\337\101\241\245
\142\062\136\373\334\335\372\054\317\105\260\152\134\365\120\003
\176\004\135\314\044\342\252\126\271\375\141\036\270\226\175\332
\361\360\007\052\112\252\372\012\344\005\301\052\373\344\132\054
\113\071\160\014\000\332\357\111\223\357\006\143\002\144\041\235
\234\166\304\236\260\175\151\123\365\124\037\113\377\311\141\342
\034\354\133\236\330\223\113\167\115\024\071\043\014\152\042\277
\267\277\136\234\243\107\020\015\237\272\221\367\274\110\240\177
\221\041\341\265\100\067\225\150\206\264\346\350\306\071\337\036
\327\101\226\153\324\301\073\153\236\145\024\111\322\171\075\056
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\147\255\167\074\223\217\147\345\010\317\002\013\263\013\151\275
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\053\357\100\343\253\035\337\172\052\053\311\374
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Autoridade Certificadora Raiz Brasileira"
Issuer: CN=Autoridade Certificadora Raiz Brasileira,ST=DF,L=Brasilia,OU=Instituto Nacional de Tecnologia da Informacao - ITI,O=ICP-Brasil,C=BR
Serial Number: 4 (0x4)
Subject: CN=Autoridade Certificadora Raiz Brasileira,ST=DF,L=Brasilia,OU=Instituto Nacional de Tecnologia da Informacao - ITI,O=ICP-Brasil,C=BR
Not Valid Before: Fri Nov 30 12:58:00 2001
Not Valid After: Wed Nov 30 23:59:00 2011
Fingerprint (MD5): 96:89:7d:61:d1:55:2b:27:e2:5a:39:b4:2a:6c:44:6f
Fingerprint (SHA1): 8e:fd:ca:bc:93:e6:1e:92:5d:4d:1d:ed:18:1a:43:20:a4:67:a1:39
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridade Certificadora Raiz Brasileira"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\216\375\312\274\223\346\036\222\135\115\035\355\030\032\103\040
\244\147\241\071
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\226\211\175\141\321\125\053\047\342\132\071\264\052\154\104\157
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\264\061\013\060\011\006\003\125\004\006\023\002\102\122
\061\023\060\021\006\003\125\004\012\023\012\111\103\120\055\102
\162\141\163\151\154\061\075\060\073\006\003\125\004\013\023\064
\111\156\163\164\151\164\165\164\157\040\116\141\143\151\157\156
\141\154\040\144\145\040\124\145\143\156\157\154\157\147\151\141
\040\144\141\040\111\156\146\157\162\155\141\143\141\157\040\055
\040\111\124\111\061\021\060\017\006\003\125\004\007\023\010\102
\162\141\163\151\154\151\141\061\013\060\011\006\003\125\004\010
\023\002\104\106\061\061\060\057\006\003\125\004\003\023\050\101
\165\164\157\162\151\144\141\144\145\040\103\145\162\164\151\146
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\163\151\154\145\151\162\141
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\004
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Post.Trust Root CA"
Issuer: CN=Post.Trust Root CA,OU=Post.Trust Ltd.,O=An Post,C=IE
Serial Number:39:a2:93:e3
Subject: CN=Post.Trust Root CA,OU=Post.Trust Ltd.,O=An Post,C=IE
Not Valid Before: Tue Aug 22 14:56:21 2000
Not Valid After: Fri Aug 20 13:56:21 2010
Fingerprint (MD5): af:b8:33:6e:7c:dd:c6:02:64:ad:58:fc:0d:4f:7b:cf
Fingerprint (SHA1): bc:7b:3c:6f:ef:26:b9:f7:ab:10:d7:a1:f6:b6:7c:5e:d2:a1:2d:3d
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Post.Trust Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\126\061\013\060\011\006\003\125\004\006\023\002\111\105\061
\020\060\016\006\003\125\004\012\023\007\101\156\040\120\157\163
\164\061\030\060\026\006\003\125\004\013\023\017\120\157\163\164
\056\124\162\165\163\164\040\114\164\144\056\061\033\060\031\006
\003\125\004\003\023\022\120\157\163\164\056\124\162\165\163\164
\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\126\061\013\060\011\006\003\125\004\006\023\002\111\105\061
\020\060\016\006\003\125\004\012\023\007\101\156\040\120\157\163
\164\061\030\060\026\006\003\125\004\013\023\017\120\157\163\164
\056\124\162\165\163\164\040\114\164\144\056\061\033\060\031\006
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\040\122\157\157\164\040\103\101
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CKA_SERIAL_NUMBER MULTILINE_OCTAL
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END
CKA_VALUE MULTILINE_OCTAL
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\005\000\060\126\061\013\060\011\006\003\125\004\006\023\002\111
\105\061\020\060\016\006\003\125\004\012\023\007\101\156\040\120
\157\163\164\061\030\060\026\006\003\125\004\013\023\017\120\157
\163\164\056\124\162\165\163\164\040\114\164\144\056\061\033\060
\031\006\003\125\004\003\023\022\120\157\163\164\056\124\162\165

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\060\070\062\062\061\064\065\066\062\061\132\027\015\061\060\060
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\006\003\125\004\006\023\002\111\105\061\020\060\016\006\003\125
\004\012\023\007\101\156\040\120\157\163\164\061\030\060\026\006
\003\125\004\013\023\017\120\157\163\164\056\124\162\165\163\164
\040\114\164\144\056\061\033\060\031\006\003\125\004\003\023\022
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\122\243\116\334\267\073\342\367\016\137\201\346\001\360\246\346
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\150\363\231\324\014\216\136\022\142\377\302\137\132\232\053\210
\107\252\273\241\331\165\360\054\134\376\155\302\261\133\061\314
\203\207\032\247\276\220\016\350\020\124\123\122\013\234\111\363
\200\002\376\157\047\246\243\127\060\270\333\270\320\000\004\003
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\022\226\177\113\273\153\156\041\161\346\010\105\112\035\146\015
\067\311\003\341\321\312\334\261\057\160\366\267\201\142\226\033
\144\247\376\273\341\206\353\101\237\250\234\330\312\240\341\326
\057\370\017\341\272\100\070\367\155\321\245\312\114\031\310\226
\334\314\111\034\012\266\323\250\221\072\371\332\354\035\315\163
\112\044\077\002\003\001\000\001\243\202\003\216\060\202\003\212
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
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\202\003\057\060\202\002\364\006\010\053\006\001\005\005\007\002
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\232\050\130\313\215\253\124\364\355\170\072\367\073\323\147\343
\217\220\203\231\242\010\122\202\026\265\201\134\233\010\061\374
\345\326\170\256\200\361\114\002\143\154\216\004\234\271\173\231
\361\034\063\241\257\173\103\121\205\007\256\337\056\305\011\374
\204\245\376\125\274\012\344\170\134\246\330\367\073\217\012\307

\156\371\237\216\020\017\102\004\374\127\101\376\122\077\261\061
\224\157\360\155\324\116\005\335\236\053\000\137\301\022\176\102
\144\247\141\026\061\117\174\276\016\310\343\020\373\056\367\025
\145\247\124\312\135\244\314\054\314\170\000\275\001\327\315\337
\320\333\063\335\211\247\024\327\242\041\274\065\326\016
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Post.Trust Root CA"
Issuer: CN=Post.Trust Root CA,OU=Post.Trust Ltd.,O=An Post,C=IE
Serial Number:39:a2:93:e3
Subject: CN=Post.Trust Root CA,OU=Post.Trust Ltd.,O=An Post,C=IE
Not Valid Before: Tue Aug 22 14:56:21 2000
Not Valid After: Fri Aug 20 13:56:21 2010
Fingerprint (MD5): af:b8:33:6e:7c:dd:c6:02:64:ad:58:fc:0d:4f:7b:cf
Fingerprint (SHA1): bc:7b:3c:6f:ef:26:b9:f7:ab:10:d7:a1:f6:b6:7c:5e:d2:a1:2d:3d
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Post.Trust Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\274\173\074\157\357\046\271\367\253\020\327\241\366\266\174\136
\322\241\055\075
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\257\270\063\156\174\335\306\002\144\255\130\374\015\117\173\317
END
CKA_ISSUER MULTILINE_OCTAL
\060\126\061\013\060\011\006\003\125\004\006\023\002\111\105\061
\020\060\016\006\003\125\004\012\023\007\101\156\040\120\157\163
\164\061\030\060\026\006\003\125\004\013\023\017\120\157\163\164
\056\124\162\165\163\164\040\114\164\144\056\061\033\060\031\006
\003\125\004\003\023\022\120\157\163\164\056\124\162\165\163\164
\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\071\242\223\343
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate

Certificate "Microsoft Root Authority"
Issuer: CN=Microsoft Root Authority,OU=Microsoft Corporation,OU=Copyright (c) 1997 Microsoft Corp.
Serial Number:c1:00:8b:3c:3c:88:11:d1:3e:f6:63:ec:df:40
Subject: CN=Microsoft Root Authority,OU=Microsoft Corporation,OU=Copyright (c) 1997 Microsoft Corp.
Not Valid Before: Fri Jan 10 07:00:00 1997
Not Valid After: Thu Dec 31 07:00:00 2020
Fingerprint (MD5): 2a:95:4e:ca:79:b2:87:45:73:d9:2d:90:ba:f9:9f:b6
Fingerprint (SHA1): a4:34:89:15:9a:52:0f:0d:93:d0:32:cc:af:37:e7:fe:20:a8:b4:19
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft Root Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\160\061\053\060\051\006\003\125\004\013\023\042\103\157\160
\171\162\151\147\150\164\040\050\143\051\040\061\071\071\067\040
\115\151\143\162\157\163\157\146\164\040\103\157\162\160\056\061
\036\060\034\006\003\125\004\013\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\041\060\037\006\003\125\004\003\023\030\115\151\143\162\157\163
\157\146\164\040\122\157\157\164\040\101\165\164\150\157\162\151
\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\160\061\053\060\051\006\003\125\004\013\023\042\103\157\160
\171\162\151\147\150\164\040\050\143\051\040\061\071\071\067\040
\115\151\143\162\157\163\157\146\164\040\103\157\162\160\056\061
\036\060\034\006\003\125\004\013\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\041\060\037\006\003\125\004\003\023\030\115\151\143\162\157\163
\157\146\164\040\122\157\157\164\040\101\165\164\150\157\162\151
\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\017\000\301\000\213\074\074\210\021\321\076\366\143\354\337
\100
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\022\060\202\002\372\240\003\002\001\002\002\017\000
\301\000\213\074\074\210\021\321\076\366\143\354\337\100\060\015
\006\011\052\206\110\206\367\015\001\001\004\005\000\060\160\061
\053\060\051\006\003\125\004\013\023\042\103\157\160\171\162\151
\147\150\164\040\050\143\051\040\061\071\071\067\040\115\151\143
\162\157\163\157\146\164\040\103\157\162\160\056\061\036\060\034
\006\003\125\004\013\023\025\115\151\143\162\157\163\157\146\164
\040\103\157\162\160\157\162\141\164\151\157\156\061\041\060\037

\006\003\125\004\003\023\030\115\151\143\162\157\163\157\146\164
\040\122\157\157\164\040\101\165\164\150\157\162\151\164\171\060
\036\027\015\071\067\060\061\061\060\060\067\060\060\060\060\132
\027\015\062\060\061\062\063\061\060\067\060\060\060\060\132\060
\160\061\053\060\051\006\003\125\004\013\023\042\103\157\160\171
\162\151\147\150\164\040\050\143\051\040\061\071\071\067\040\115
\151\143\162\157\163\157\146\164\040\103\157\162\160\056\061\036
\060\034\006\003\125\004\013\023\025\115\151\143\162\157\163\157
\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061\041
\060\037\006\003\125\004\003\023\030\115\151\143\162\157\163\157
\146\164\040\122\157\157\164\040\101\165\164\150\157\162\151\164
\171\060\202\001\042\060\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\202\001\017\000\060\202\001\012\002\202\001
\001\000\251\002\275\301\160\346\073\362\116\033\050\237\227\170
\136\060\352\242\251\215\045\137\370\376\225\114\243\267\376\235
\242\040\076\174\121\242\233\242\217\140\062\153\321\102\144\171
\356\254\166\311\124\332\362\353\234\206\034\217\237\204\146\263
\305\153\172\142\043\326\035\074\336\017\001\222\350\226\304\277
\055\146\232\232\150\046\231\320\072\054\277\014\265\130\046\301
\106\347\012\076\070\226\054\251\050\071\250\354\111\203\102\343
\204\017\273\232\154\125\141\254\202\174\241\140\055\167\114\351
\231\264\144\073\232\120\034\061\010\044\024\237\251\347\221\053
\030\346\075\230\143\024\140\130\005\145\237\035\067\122\207\367
\247\357\224\002\306\033\323\277\125\105\263\211\200\277\072\354
\124\224\116\256\375\247\172\155\164\116\257\030\314\226\011\050
\041\000\127\220\140\151\067\273\113\022\007\074\126\377\133\373
\244\146\012\010\246\322\201\126\127\357\266\073\136\026\201\167
\004\332\366\276\256\200\225\376\260\315\177\326\247\032\162\134
\074\312\274\360\010\243\042\060\263\006\205\311\263\040\167\023
\205\337\002\003\001\000\001\243\201\250\060\201\245\060\201\242
\006\003\125\035\001\004\201\232\060\201\227\200\020\133\320\160
\357\151\162\236\043\121\176\024\262\115\216\377\313\241\162\060
\160\061\053\060\051\006\003\125\004\013\023\042\103\157\160\171
\162\151\147\150\164\040\050\143\051\040\061\071\071\067\040\115
\151\143\162\157\163\157\146\164\040\103\157\162\160\056\061\036
\060\034\006\003\125\004\013\023\025\115\151\143\162\157\163\157
\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061\041
\060\037\006\003\125\004\003\023\030\115\151\143\162\157\163\157
\146\164\040\122\157\157\164\040\101\165\164\150\157\162\151\164
\171\202\017\000\301\000\213\074\074\210\021\321\076\366\143\354
\337\100\060\015\006\011\052\206\110\206\367\015\001\001\004\005
\000\003\202\001\001\000\225\350\013\300\215\363\227\030\065\355
\270\001\044\330\167\021\363\134\140\062\237\236\013\313\076\005
\221\210\217\311\072\346\041\362\360\127\223\054\265\240\107\310
\142\357\374\327\314\073\073\132\251\066\124\151\376\044\155\077
\311\314\252\336\005\174\335\061\215\075\237\020\160\152\273\376
\022\117\030\151\300\374\320\103\343\021\132\040\117\352\142\173
\257\252\031\310\053\067\045\055\276\145\241\022\212\045\017\143

\243\367\124\034\371\041\311\326\025\363\122\254\156\103\062\007
\375\202\027\370\345\147\154\015\121\366\275\361\122\307\275\347
\304\060\374\040\061\011\210\035\225\051\032\115\325\035\002\245
\361\200\340\003\264\133\364\261\335\310\127\356\145\111\307\122
\124\266\264\003\050\022\377\220\326\360\010\217\176\270\227\305
\253\067\054\344\172\344\250\167\343\166\240\000\320\152\077\301
\322\066\212\340\101\022\250\065\152\033\152\333\065\341\324\034
\004\344\250\105\004\310\132\063\070\156\115\034\015\142\267\012
\242\214\323\325\124\077\106\315\034\125\246\160\333\022\072\207
\223\165\237\247\322\240
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Microsoft Root Authority"
Issuer: CN=Microsoft Root Authority,OU=Microsoft Corporation,OU=Copyright (c) 1997 Microsoft Corp.
Serial Number:c1:00:8b:3c:3c:88:11:d1:3e:f6:63:ec:df:40
Subject: CN=Microsoft Root Authority,OU=Microsoft Corporation,OU=Copyright (c) 1997 Microsoft Corp.
Not Valid Before: Fri Jan 10 07:00:00 1997
Not Valid After: Thu Dec 31 07:00:00 2020
Fingerprint (MD5): 2a:95:4e:ca:79:b2:87:45:73:d9:2d:90:ba:f9:9f:b6
Fingerprint (SHA1): a4:34:89:15:9a:52:0f:0d:93:d0:32:cc:af:37:e7:fe:20:a8:b4:19
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft Root Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\244\064\211\025\232\122\017\015\223\320\062\314\257\067\347\376
\040\250\264\031
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\052\225\116\312\171\262\207\105\163\331\055\220\272\371\237\266
END
CKA_ISSUER MULTILINE_OCTAL
\060\160\061\053\060\051\006\003\125\004\013\023\042\103\157\160
\171\162\151\147\150\164\040\050\143\051\040\061\071\071\067\040
\115\151\143\162\157\163\157\146\164\040\103\157\162\160\056\061
\036\060\034\006\003\125\004\013\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\041\060\037\006\003\125\004\003\023\030\115\151\143\162\157\163
\157\146\164\040\122\157\157\164\040\101\165\164\150\157\162\151
\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\017\000\301\000\213\074\074\210\021\321\076\366\143\354\337

\100
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Microsoft Root Certificate Authority"
Issuer: CN=Microsoft Root Certificate Authority,DC=microsoft,DC=com
Serial Number:79:ad:16:a1:4a:a0:a5:ad:4c:73:58:f4:07:13:2e:65
Subject: CN=Microsoft Root Certificate Authority,DC=microsoft,DC=com
Not Valid Before: Wed May 09 23:19:22 2001
Not Valid After: Sun May 09 23:28:13 2021
Fingerprint (MD5): e1:c0:7e:a0:aa:bb:d4:b7:7b:84:c2:28:11:78:08:a7
Fingerprint (SHA1): cd:d4:ee:ae:60:00:ac:7f:40:c3:80:2c:17:1e:30:14:80:30:c0:72
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft Root Certificate Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\137\061\023\060\021\006\012\011\222\046\211\223\362\054\144
\001\031\026\003\143\157\155\061\031\060\027\006\012\011\222\046
\211\223\362\054\144\001\031\026\011\155\151\143\162\157\163\157
\146\164\061\055\060\053\006\003\125\004\003\023\044\115\151\143
\162\157\163\157\146\164\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164
\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\137\061\023\060\021\006\012\011\222\046\211\223\362\054\144
\001\031\026\003\143\157\155\061\031\060\027\006\012\011\222\046
\211\223\362\054\144\001\031\026\011\155\151\143\162\157\163\157
\146\164\061\055\060\053\006\003\125\004\003\023\044\115\151\143
\162\157\163\157\146\164\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164
\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\171\255\026\241\112\240\245\255\114\163\130\364\007\023
\056\145
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\231\060\202\003\201\240\003\002\001\002\002\020\171
\255\026\241\112\240\245\255\114\163\130\364\007\023\056\145\060

\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\137
\061\023\060\021\006\012\011\222\046\211\223\362\054\144\001\031
\026\003\143\157\155\061\031\060\027\006\012\011\222\046\211\223
\362\054\144\001\031\026\011\155\151\143\162\157\163\157\146\164
\061\055\060\053\006\003\125\004\003\023\044\115\151\143\162\157
\163\157\146\164\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171\060
\036\027\015\060\061\060\065\060\071\062\063\061\071\062\062\132
\027\015\062\061\060\065\060\071\062\063\062\070\061\063\132\060
\137\061\023\060\021\006\012\011\222\046\211\223\362\054\144\001
\031\026\003\143\157\155\061\031\060\027\006\012\011\222\046\211
\223\362\054\144\001\031\026\011\155\151\143\162\157\163\157\146
\164\061\055\060\053\006\003\125\004\003\023\044\115\151\143\162
\157\163\157\146\164\040\122\157\157\164\040\103\145\162\164\151
\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001
\000\363\135\372\200\147\324\132\247\251\014\054\220\040\320\065
\010\074\165\204\315\267\007\211\234\211\332\336\316\303\140\372
\221\150\132\236\224\161\051\030\166\174\302\340\310\045\166\224
\016\130\372\004\064\066\346\337\257\367\200\272\351\130\013\053
\223\345\235\005\343\167\042\221\367\064\144\074\042\221\035\136
\341\011\220\274\024\376\374\165\130\031\341\171\267\007\222\243
\256\210\131\010\330\237\007\312\003\130\374\150\051\155\062\327
\322\250\313\113\374\341\013\110\062\117\346\353\270\255\117\344
\134\157\023\224\231\333\225\325\165\333\250\032\267\224\221\264
\167\133\365\110\014\217\152\171\175\024\160\004\175\155\257\220
\365\332\160\330\107\267\277\233\057\154\347\005\267\341\021\140
\254\171\221\024\174\305\326\246\344\341\176\325\303\176\345\222
\322\074\000\265\066\202\336\171\341\155\363\265\156\370\237\063
\311\313\122\175\163\230\066\333\213\241\153\242\225\227\233\243
\336\302\115\046\377\006\226\147\045\006\310\347\254\344\356\022
\063\225\061\231\310\065\010\116\064\312\171\123\325\265\276\143
\062\131\100\066\300\245\116\004\115\075\333\133\007\063\344\130
\277\357\077\123\144\330\102\131\065\127\375\017\105\174\044\004
\115\236\326\070\164\021\227\042\220\316\150\104\164\222\157\325
\113\157\260\206\343\307\066\102\240\320\374\301\300\132\371\243
\141\271\060\107\161\226\012\026\260\221\300\102\225\357\020\177
\050\152\343\052\037\261\344\315\003\077\167\161\004\307\040\374
\111\017\035\105\210\244\327\313\176\210\255\216\055\354\105\333
\304\121\004\311\052\374\354\206\236\232\021\227\133\336\316\123
\210\346\342\267\375\254\225\302\050\100\333\357\004\220\337\201
\063\071\331\262\105\245\043\207\006\245\125\211\061\273\006\055
\140\016\101\030\175\037\056\265\227\313\021\353\025\325\044\245
\224\357\025\024\211\375\113\163\372\062\133\374\321\063\000\371
\131\142\160\007\062\352\056\253\100\055\173\312\335\041\147\033
\060\231\217\026\252\043\250\101\321\260\156\021\233\066\304\336
\100\164\234\341\130\145\301\140\036\172\133\070\310\217\273\004

\046\174\324\026\100\345\266\153\154\252\206\375\000\277\316\301
\065\002\003\001\000\001\243\121\060\117\060\013\006\003\125\035
\017\004\004\003\002\001\306\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004
\026\004\024\016\254\202\140\100\126\047\227\345\045\023\374\052
\341\012\123\225\131\344\244\060\020\006\011\053\006\001\004\001
\202\067\025\001\004\003\002\001\000\060\015\006\011\052\206\110
\206\367\015\001\001\005\005\000\003\202\002\001\000\305\021\115
\003\072\140\335\135\122\021\167\217\262\273\066\310\262\005\277
\264\267\250\330\040\235\134\023\003\266\034\042\372\006\023\065
\266\310\143\324\232\107\157\046\127\322\125\361\004\261\046\137
\326\251\120\150\240\274\322\270\156\314\303\351\254\337\031\315
\170\254\131\164\254\146\064\066\304\033\076\154\070\114\063\016
\060\022\015\243\046\376\121\123\000\377\257\132\116\204\015\017
\037\344\155\005\056\116\205\113\215\154\063\157\124\322\144\253
\277\120\257\175\172\071\240\067\355\143\003\017\374\023\006\316
\026\066\324\124\073\225\033\121\142\072\345\115\027\324\005\071
\222\232\047\250\133\252\275\354\273\276\343\040\211\140\161\154
\126\263\245\023\320\155\016\043\176\225\003\355\150\075\362\330
\143\270\153\115\266\350\060\265\341\312\224\113\367\242\252\135
\231\060\262\075\247\302\121\154\050\040\001\044\047\053\113\000
\267\235\021\153\160\276\262\020\202\274\014\233\150\320\215\073
\044\207\252\231\050\162\235\063\137\131\220\275\365\336\223\236
\072\142\132\064\071\342\210\125\035\271\006\260\301\211\153\055
\327\151\303\031\022\066\204\320\311\240\332\377\057\151\170\262
\345\172\332\353\327\014\300\367\275\143\027\270\071\023\070\242
\066\133\173\362\205\126\152\035\144\142\301\070\342\252\277\121
\146\242\224\365\022\234\146\042\020\153\362\267\060\222\055\362
\051\360\075\073\024\103\150\242\361\234\051\067\313\316\070\040
\045\155\174\147\363\176\044\022\044\003\010\201\107\354\245\236
\227\365\030\327\317\273\325\357\166\226\357\375\316\333\126\235
\225\240\102\371\227\130\341\327\061\042\323\137\131\346\076\156
\042\000\352\103\204\266\045\333\331\363\010\126\150\300\144\153
\035\174\354\266\223\242\142\127\156\056\330\347\130\217\304\061
\111\046\335\336\051\065\207\365\060\161\160\133\024\074\151\275
\211\022\175\353\056\243\376\330\177\236\202\132\122\012\053\301
\103\053\331\060\210\237\310\020\373\211\215\346\241\205\165\063
\176\154\236\333\163\023\144\142\151\245\057\175\312\226\155\237
\370\004\115\060\222\075\156\041\024\041\311\075\340\303\375\212
\153\235\112\375\321\241\235\231\103\167\077\260\332
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Microsoft Root Certificate Authority"
Issuer: CN=Microsoft Root Certificate Authority,DC=microsoft,DC=com

Serial Number:79:ad:16:a1:4a:a0:a5:ad:4c:73:58:f4:07:13:2e:65
Subject: CN=Microsoft Root Certificate Authority,DC=microsoft,DC=com
Not Valid Before: Wed May 09 23:19:22 2001
Not Valid After: Sun May 09 23:28:13 2021
Fingerprint (MD5): e1:c0:7e:a0:aa:bb:d4:b7:7b:84:c2:28:11:78:08:a7
Fingerprint (SHA1): cd:d4:ee:ae:60:00:ac:7f:40:c3:80:2c:17:1e:30:14:80:30:c0:72
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft Root Certificate Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\315\324\356\256\140\000\254\177\100\303\200\054\027\036\060\024
\200\060\300\162
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\341\300\176\240\252\273\324\267\173\204\302\050\021\170\010\247
END
CKA_ISSUER MULTILINE_OCTAL
\060\137\061\023\060\021\006\012\011\222\046\211\223\362\054\144
\001\031\026\003\143\157\155\061\031\060\027\006\012\011\222\046
\211\223\362\054\144\001\031\026\011\155\151\143\162\157\163\157
\146\164\061\055\060\053\006\003\125\004\003\023\044\115\151\143
\162\157\163\157\146\164\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164
\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\171\255\026\241\112\240\245\255\114\163\130\364\007\023
\056\145
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Microsoft Root Certificate Authority 2010"
Issuer: CN=Microsoft Root Certificate Authority 2010,O=Microsoft
Corporation,L=Redmond,ST=Washington,C=US
Serial Number:28:cc:3a:25:bf:ba:44:ac:44:9a:9b:58:6b:43:39:aa
Subject: CN=Microsoft Root Certificate Authority 2010,O=Microsoft
Corporation,L=Redmond,ST=Washington,C=US
Not Valid Before: Wed Jun 23 21:57:24 2010
Not Valid After: Sat Jun 23 22:04:01 2035
Fingerprint (MD5): a2:66:bb:7d:cc:38:a5:62:63:13:61:bb:f6:1d:d1:1b
Fingerprint (SHA1): 3b:1e:fd:3a:66:ea:28:b1:66:97:39:47:03:a7:2c:a3:40:a0:5b:d5
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft Root Certificate Authority 2010"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\127\141\163\150\151
\156\147\164\157\156\061\020\060\016\006\003\125\004\007\023\007
\122\145\144\155\157\156\144\061\036\060\034\006\003\125\004\012
\023\025\115\151\143\162\157\163\157\146\164\040\103\157\162\160
\157\162\141\164\151\157\156\061\062\060\060\006\003\125\004\003
\023\051\115\151\143\162\157\163\157\146\164\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\040\062\060\061\060
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\127\141\163\150\151
\156\147\164\157\156\061\020\060\016\006\003\125\004\007\023\007
\122\145\144\155\157\156\144\061\036\060\034\006\003\125\004\012
\023\025\115\151\143\162\157\163\157\146\164\040\103\157\162\160
\157\162\141\164\151\157\156\061\062\060\060\006\003\125\004\003
\023\051\115\151\143\162\157\163\157\146\164\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\040\062\060\061\060
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\050\314\072\045\277\272\104\254\104\232\233\130\153\103
\071\252
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\355\060\202\003\325\240\003\002\001\002\002\020\050
\314\072\045\277\272\104\254\104\232\233\130\153\103\071\252\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\201
\210\061\013\060\011\006\003\125\004\006\023\002\125\123\061\023
\060\021\006\003\125\004\010\023\012\127\141\163\150\151\156\147
\164\157\156\061\020\060\016\006\003\125\004\007\023\007\122\145
\144\155\157\156\144\061\036\060\034\006\003\125\004\012\023\025
\115\151\143\162\157\163\157\146\164\040\103\157\162\160\157\162
\141\164\151\157\156\061\062\060\060\006\003\125\004\003\023\051
\115\151\143\162\157\163\157\146\164\040\122\157\157\164\040\103
\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157
\162\151\164\171\040\062\060\061\060\060\036\027\015\061\060\060
\066\062\063\062\061\065\067\062\064\132\027\015\063\065\060\066
\062\063\062\062\060\064\060\061\132\060\201\210\061\013\060\011
\006\003\125\004\006\023\002\125\123\061\023\060\021\006\003\125

\004\010\023\012\127\141\163\150\151\156\147\164\157\156\061\020
\060\016\006\003\125\004\007\023\007\122\145\144\155\157\156\144
\061\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157
\163\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156
\061\062\060\060\006\003\125\004\003\023\051\115\151\143\162\157
\163\157\146\164\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171\040
\062\060\061\060\060\202\002\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012
\002\202\002\001\000\271\010\236\050\344\344\354\006\116\120\150
\263\101\305\173\353\256\266\216\257\201\272\042\104\037\145\064
\151\114\276\160\100\027\362\026\173\342\171\375\206\355\015\071
\364\033\250\255\222\220\036\313\075\166\217\132\331\265\221\020
\056\074\005\215\212\155\044\124\347\037\355\126\255\203\264\120
\234\025\245\027\164\210\131\040\374\010\305\204\166\323\150\324
\157\050\170\316\134\270\363\120\220\104\377\343\143\137\276\241
\232\054\226\025\004\326\007\376\036\204\041\340\102\061\021\304
\050\066\224\317\120\244\142\236\311\326\253\161\000\262\133\014
\346\226\324\012\044\226\365\377\306\325\267\033\327\313\267\041
\142\257\022\334\241\135\067\343\032\373\032\106\230\300\233\300
\347\143\037\052\010\223\002\176\036\152\216\362\237\030\211\344
\042\205\242\261\204\127\100\377\365\016\330\157\234\355\342\105
\061\001\315\027\351\177\260\201\105\343\252\041\100\046\241\162
\252\247\117\074\001\005\176\356\203\130\261\136\006\143\231\142
\221\170\202\267\015\223\014\044\152\264\033\333\047\354\137\225
\004\077\223\112\060\365\227\030\263\247\371\031\247\223\063\035
\001\310\333\042\122\134\327\045\311\106\371\242\373\207\131\103
\276\233\142\261\215\055\206\104\032\106\254\170\141\176\060\011
\372\256\211\304\101\052\042\146\003\221\071\105\234\307\213\014
\250\312\015\057\373\122\352\014\367\143\063\043\235\376\260\037
\255\147\326\247\120\003\306\004\160\143\265\054\261\206\132\103
\267\373\256\371\156\051\156\041\041\101\046\006\214\311\303\356
\260\302\205\223\241\271\205\331\346\062\154\113\114\077\326\135
\243\345\265\235\167\303\234\300\125\267\164\000\343\270\070\253
\203\227\120\341\232\102\044\035\306\300\243\060\321\032\132\310
\122\064\367\163\361\307\030\037\063\255\172\354\313\101\140\363
\043\224\040\302\110\105\254\134\121\306\056\200\302\342\167\025
\275\205\207\355\066\235\226\221\356\000\265\243\160\354\237\343
\215\200\150\203\166\272\257\135\160\122\042\026\342\146\373\272
\263\305\302\367\076\057\167\246\312\336\301\246\306\110\114\303
\067\121\043\323\047\327\270\116\160\226\360\241\104\166\257\170
\317\232\341\146\023\002\003\001\000\001\243\121\060\117\060\013
\006\003\125\035\017\004\004\003\002\001\206\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003
\125\035\016\004\026\004\024\325\366\126\313\217\350\242\134\142
\150\321\075\224\220\133\327\316\232\030\304\060\020\006\011\053
\006\001\004\001\202\067\025\001\004\003\002\001\000\060\015\006
\011\052\206\110\206\367\015\001\001\013\005\000\003\202\002\001

\000\254\245\226\214\277\273\256\246\366\327\161\207\103\061\126
\210\375\034\062\161\133\065\267\324\360\221\362\257\067\342\024
\361\363\002\046\005\076\026\024\177\024\272\270\117\373\211\262
\262\347\324\011\314\155\271\133\073\144\145\160\146\267\362\261
\132\337\032\002\363\365\121\270\147\155\171\363\277\126\173\344
\204\271\053\036\233\100\234\046\064\371\107\030\230\151\330\034
\327\266\321\277\217\141\302\147\304\265\357\140\103\216\020\033
\066\111\344\040\312\255\247\301\261\047\145\011\370\315\365\133
\052\320\204\063\363\357\037\362\365\234\013\130\223\067\240\165
\240\336\162\336\154\165\052\146\042\365\214\006\060\126\237\100
\271\060\252\100\167\025\202\327\213\354\300\323\262\275\203\305
\167\014\036\256\257\031\123\240\115\171\161\237\017\257\060\316
\147\371\326\054\314\042\101\172\007\362\227\102\030\316\131\171
\020\125\336\157\020\344\270\332\203\146\100\026\011\150\043\133
\227\056\046\232\002\273\127\214\305\270\272\151\142\062\200\211
\236\241\375\300\222\174\173\053\063\031\204\052\143\305\000\150
\142\372\237\107\215\231\172\105\072\247\351\355\356\151\102\265
\363\201\233\107\126\020\173\374\160\066\204\030\163\352\357\371
\227\115\236\063\043\335\046\013\272\052\267\077\104\334\203\047
\377\275\141\131\053\021\267\312\117\333\305\213\014\034\061\256
\062\370\370\271\102\367\177\334\141\232\166\261\132\004\341\021
\075\146\105\267\030\161\276\311\044\205\326\363\324\272\101\064
\135\022\055\045\271\215\246\023\110\155\113\260\007\175\231\223
\011\141\201\164\127\046\212\253\151\343\344\331\307\210\314\044
\330\354\122\044\134\036\274\221\024\342\226\336\353\012\332\236
\335\137\263\133\333\324\202\354\306\040\120\207\045\100\072\373
\307\356\315\376\063\345\156\303\204\011\125\003\045\071\300\351
\065\135\145\061\250\366\277\240\011\315\051\307\263\066\062\056
\334\225\363\203\301\132\317\213\215\366\352\263\041\370\244\355
\036\061\016\266\114\021\253\140\013\244\022\043\042\027\243\066
\144\202\221\004\022\340\253\157\036\313\120\005\141\264\100\377
\131\206\161\321\325\063\151\174\251\163\212\070\327\144\014\361
\151
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Microsoft Root Certificate Authority 2010"
Issuer: CN=Microsoft Root Certificate Authority 2010,O=Microsoft
Corporation,L=Redmond,ST=Washington,C=US
Serial Number:28:cc:3a:25:bf:ba:44:ac:44:9a:9b:58:6b:43:39:aa
Subject: CN=Microsoft Root Certificate Authority 2010,O=Microsoft
Corporation,L=Redmond,ST=Washington,C=US
Not Valid Before: Wed Jun 23 21:57:24 2010
Not Valid After: Sat Jun 23 22:04:01 2035
Fingerprint (MD5): a2:66:bb:7d:cc:38:a5:62:63:13:61:bb:f6:1d:d1:1b

Fingerprint (SHA1): 3b:1e:fd:3a:66:ea:28:b1:66:97:39:47:03:a7:2c:a3:40:a0:5b:d5
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft Root Certificate Authority 2010"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\073\036\375\072\146\352\050\261\146\227\071\107\003\247\054\243
\100\240\133\325
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\242\146\273\175\314\070\245\142\143\023\141\273\366\035\321\033
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\127\141\163\150\151
\156\147\164\157\156\061\020\060\016\006\003\125\004\007\023\007
\122\145\144\155\157\156\144\061\036\060\034\006\003\125\004\012
\023\025\115\151\143\162\157\163\157\146\164\040\103\157\162\160
\157\162\141\164\151\157\156\061\062\060\060\006\003\125\004\003
\023\051\115\151\143\162\157\163\157\146\164\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\040\062\060\061\060
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\050\314\072\045\277\272\104\254\104\232\233\130\153\103
\071\252
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Entrust.net Secure Server Certification Authority"
Issuer: CN=Entrust.net Secure Server Certification Authority,OU=(c) 1999 Entrust.net Limited,OU=www.entrust.net/CPS incorp. by ref. (limits liab.),O=Entrust.net,C=US
Serial Number:37:4a:d2:43
Subject: CN=Entrust.net Secure Server Certification Authority,OU=(c) 1999 Entrust.net Limited,OU=www.entrust.net/CPS incorp. by ref. (limits liab.),O=Entrust.net,C=US
Not Valid Before: Tue May 25 16:09:40 1999
Not Valid After: Sat May 25 16:39:40 2019
Fingerprint (MD5): df:f2:80:73:cc:f1:e6:61:73:fc:f5:42:e9:c5:7c:ee
Fingerprint (SHA1): 99:a6:9b:e6:1a:fe:88:6b:4d:2b:82:00:7c:b8:54:fc:31:7e:15:39
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Entrust.net Secure Server Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\303\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\024\060\022\006\003\125\004\012\023\013\105\156\164\162\165
\163\164\056\156\145\164\061\073\060\071\006\003\125\004\013\023
\062\167\167\167\056\145\156\164\162\165\163\164\056\156\145\164
\057\103\120\123\040\151\156\143\157\162\160\056\040\142\171\040
\162\145\146\056\040\050\154\151\155\151\164\163\040\154\151\141
\142\056\051\061\045\060\043\006\003\125\004\013\023\034\050\143
\051\040\061\071\071\071\040\105\156\164\162\165\163\164\056\156
\145\164\040\114\151\155\151\164\145\144\061\072\060\070\006\003
\125\004\003\023\061\105\156\164\162\165\163\164\056\156\145\164
\040\123\145\143\165\162\145\040\123\145\162\166\145\162\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\303\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\024\060\022\006\003\125\004\012\023\013\105\156\164\162\165
\163\164\056\156\145\164\061\073\060\071\006\003\125\004\013\023
\062\167\167\167\056\145\156\164\162\165\163\164\056\156\145\164
\057\103\120\123\040\151\156\143\157\162\160\056\040\142\171\040
\162\145\146\056\040\050\154\151\155\151\164\163\040\154\151\141
\142\056\051\061\045\060\043\006\003\125\004\013\023\034\050\143
\051\040\061\071\071\071\040\105\156\164\162\165\163\164\056\156
\145\164\040\114\151\155\151\164\145\144\061\072\060\070\006\003
\125\004\003\023\061\105\156\164\162\165\163\164\056\156\145\164
\040\123\145\143\165\162\145\040\123\145\162\166\145\162\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\067\112\322\103
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\330\060\202\004\101\240\003\002\001\002\002\004\067
\112\322\103\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\060\201\303\061\013\060\011\006\003\125\004\006\023\002
\125\123\061\024\060\022\006\003\125\004\012\023\013\105\156\164
\162\165\163\164\056\156\145\164\061\073\060\071\006\003\125\004
\013\023\062\167\167\167\056\145\156\164\162\165\163\164\056\156
\145\164\057\103\120\123\040\151\156\143\157\162\160\056\040\142
\171\040\162\145\146\056\040\050\154\151\155\151\164\163\040\154
\151\141\142\056\051\061\045\060\043\006\003\125\004\013\023\034
\050\143\051\040\061\071\071\071\040\105\156\164\162\165\163\164
\056\156\145\164\040\114\151\155\151\164\145\144\061\072\060\070

\006\003\125\004\003\023\061\105\156\164\162\165\163\164\056\156
\145\164\040\123\145\143\165\162\145\040\123\145\162\166\145\162
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\060\036\027\015\071\071\060\065
\062\065\061\066\060\071\064\060\132\027\015\061\071\060\065\062
\065\061\066\063\071\064\060\132\060\201\303\061\013\060\011\006
\003\125\004\006\023\002\125\123\061\024\060\022\006\003\125\004
\012\023\013\105\156\164\162\165\163\164\056\156\145\164\061\073
\060\071\006\003\125\004\013\023\062\167\167\167\056\145\156\164
\162\165\163\164\056\156\145\164\057\103\120\123\040\151\156\143
\157\162\160\056\040\142\171\040\162\145\146\056\040\050\154\151
\155\151\164\163\040\154\151\141\142\056\051\061\045\060\043\006
\003\125\004\013\023\034\050\143\051\040\061\071\071\071\040\105
\156\164\162\165\163\164\056\156\145\164\040\114\151\155\151\164
\145\144\061\072\060\070\006\003\125\004\003\023\061\105\156\164
\162\165\163\164\056\156\145\164\040\123\145\143\165\162\145\040
\123\145\162\166\145\162\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\060\201
\235\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000
\003\201\213\000\060\201\207\002\201\201\000\315\050\203\064\124
\033\211\363\017\257\067\221\061\377\257\061\140\311\250\350\262
\020\150\355\237\347\223\066\361\012\144\273\107\365\004\027\077
\043\107\115\305\047\031\201\046\014\124\162\015\210\055\331\037
\232\022\237\274\263\161\323\200\031\077\107\146\173\214\065\050
\322\271\012\337\044\332\234\326\120\171\201\172\132\323\067\367
\302\112\330\051\222\046\144\321\344\230\154\072\000\212\365\064
\233\145\370\355\343\020\377\375\270\111\130\334\240\336\202\071
\153\201\261\026\031\141\271\124\266\346\103\002\001\003\243\202
\001\327\060\202\001\323\060\021\006\011\140\206\110\001\206\370
\102\001\001\004\004\003\002\000\007\060\202\001\031\006\003\125
\035\037\004\202\001\020\060\202\001\014\060\201\336\240\201\333
\240\201\330\244\201\325\060\201\322\061\013\060\011\006\003\125
\004\006\023\002\125\123\061\024\060\022\006\003\125\004\012\023
\013\105\156\164\162\165\163\164\056\156\145\164\061\073\060\071
\006\003\125\004\013\023\062\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\103\120\123\040\151\156\143\157\162
\160\056\040\142\171\040\162\145\146\056\040\050\154\151\155\151
\164\163\040\154\151\141\142\056\051\061\045\060\043\006\003\125
\004\013\023\034\050\143\051\040\061\071\071\071\040\105\156\164
\162\165\163\164\056\156\145\164\040\114\151\155\151\164\145\144
\061\072\060\070\006\003\125\004\003\023\061\105\156\164\162\165
\163\164\056\156\145\164\040\123\145\143\165\162\145\040\123\145
\162\166\145\162\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\061\015\060\013
\006\003\125\004\003\023\004\103\122\114\061\060\051\240\047\240
\045\206\043\150\164\164\160\072\057\057\167\167\167\056\145\156
\164\162\165\163\164\056\156\145\164\057\103\122\114\057\156\145
\164\061\056\143\162\154\060\053\006\003\125\035\020\004\044\060

\042\200\017\061\071\071\071\060\065\062\065\061\066\060\071\064
\060\132\201\017\062\060\061\071\060\065\062\065\061\066\060\071
\064\060\132\060\013\006\003\125\035\017\004\004\003\002\001\006
\060\037\006\003\125\035\043\004\030\060\026\200\024\360\027\142
\023\125\075\263\377\012\000\153\373\120\204\227\363\355\142\320
\032\060\035\006\003\125\035\016\004\026\004\024\360\027\142\023
\125\075\263\377\012\000\153\373\120\204\227\363\355\142\320\032
\060\014\006\003\125\035\023\004\005\060\003\001\001\377\060\031
\006\011\052\206\110\206\366\175\007\101\000\004\014\060\012\033
\004\126\064\056\060\003\002\004\220\060\015\006\011\052\206\110
\206\367\015\001\001\005\005\000\003\201\201\000\220\334\060\002
\372\144\164\302\247\012\245\174\041\215\064\027\250\373\107\016
\377\045\174\215\023\012\373\344\230\265\357\214\370\305\020\015
\367\222\276\361\303\325\325\225\152\004\273\054\316\046\066\145
\310\061\306\347\356\077\343\127\165\204\172\021\357\106\117\030
\364\323\230\273\250\207\062\272\162\366\074\342\075\237\327\035
\331\303\140\103\214\130\016\042\226\057\142\243\054\037\272\255
\005\357\253\062\170\207\240\124\163\031\265\134\005\371\122\076
\155\055\105\013\367\012\223\352\355\006\371\262
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Entrust.net Secure Server Certification Authority"
Issuer: CN=Entrust.net Secure Server Certification Authority,OU=(c) 1999 Entrust.net
Limited,OU=www.entrust.net/CPS incorp. by ref. (limits liab.),O=Entrust.net,C=US
Serial Number:37:4a:d2:43
Subject: CN=Entrust.net Secure Server Certification Authority,OU=(c) 1999 Entrust.net
Limited,OU=www.entrust.net/CPS incorp. by ref. (limits liab.),O=Entrust.net,C=US
Not Valid Before: Tue May 25 16:09:40 1999
Not Valid After: Sat May 25 16:39:40 2019
Fingerprint (MD5): df:f2:80:73:cc:f1:e6:61:73:fc:f5:42:e9:c5:7c:ee
Fingerprint (SHA1): 99:a6:9b:e6:1a:fe:88:6b:4d:2b:82:00:7c:b8:54:fc:31:7e:15:39
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust.net Secure Server Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\231\246\233\346\032\376\210\153\115\053\202\000\174\270\124\374
\061\176\025\071
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\337\362\200\163\314\361\346\141\163\374\365\102\351\305\174\356
END
CKA_ISSUER MULTILINE_OCTAL

\060\201\303\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\024\060\022\006\003\125\004\012\023\013\105\156\164\162\165
\163\164\056\156\145\164\061\073\060\071\006\003\125\004\013\023
\062\167\167\167\056\145\156\164\162\165\163\164\056\156\145\164
\057\103\120\123\040\151\156\143\157\162\160\056\040\142\171\040
\162\145\146\056\040\050\154\151\155\151\164\163\040\154\151\141
\142\056\051\061\045\060\043\006\003\125\004\013\023\034\050\143
\051\040\061\071\071\071\040\105\156\164\162\165\163\164\056\156
\145\164\040\114\151\155\151\164\145\144\061\072\060\070\006\003
\125\004\003\023\061\105\156\164\162\165\163\164\056\156\145\164
\040\123\145\143\165\162\145\040\123\145\162\166\145\162\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\067\112\322\103
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "UTN-USERFirst-Object"
Issuer: CN=UTN-USERFirst-Object,OU=http://www.usertrust.com,O=The USERTRUST Network,L=Salt Lake City,ST=UT,C=US
Serial Number:44:be:0c:8b:50:00:24:b4:11:d3:36:2d:e0:b3:5f:1b
Subject: CN=UTN-USERFirst-Object,OU=http://www.usertrust.com,O=The USERTRUST Network,L=Salt Lake City,ST=UT,C=US
Not Valid Before: Fri Jul 09 18:31:20 1999
Not Valid After: Tue Jul 09 18:40:36 2019
Fingerprint (MD5): a7:f2:e4:16:06:41:11:50:30:6b:9c:e3:b4:9c:b0:c9
Fingerprint (SHA1): e1:2d:fb:4b:41:d7:d9:c3:2b:30:51:4b:ac:1d:81:d8:38:5e:2d:46
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UTN-USERFirst-Object"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\225\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\013\060\011\006\003\125\004\010\023\002\125\124\061\027\060
\025\006\003\125\004\007\023\016\123\141\154\164\040\114\141\153
\145\040\103\151\164\171\061\036\060\034\006\003\125\004\012\023
\025\124\150\145\040\125\123\105\122\124\122\125\123\124\040\116
\145\164\167\157\162\153\061\041\060\037\006\003\125\004\013\023
\030\150\164\164\160\072\057\057\167\167\167\056\165\163\145\162
\164\162\165\163\164\056\143\157\155\061\035\060\033\006\003\125

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\164\055\117\142\152\145\143\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
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\061\013\060\011\006\003\125\004\010\023\002\125\124\061\027\060
\025\006\003\125\004\007\023\016\123\141\154\164\040\114\141\153
\145\040\103\151\164\171\061\036\060\034\006\003\125\004\012\023
\025\124\150\145\040\125\123\105\122\124\122\125\123\124\040\116
\145\164\167\157\162\153\061\041\060\037\006\003\125\004\013\023
\030\150\164\164\160\072\057\057\167\167\167\056\165\163\145\162
\164\162\165\163\164\056\143\157\155\061\035\060\033\006\003\125
\004\003\023\024\125\124\116\055\125\123\105\122\106\151\162\163
\164\055\117\142\152\145\143\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\104\276\014\213\120\000\044\264\021\323\066\055\340\263
\137\033
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CKA_VALUE MULTILINE_OCTAL
\060\202\004\146\060\202\003\116\240\003\002\001\002\002\020\104
\276\014\213\120\000\044\264\021\323\066\055\340\263\137\033\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\201
\225\061\013\060\011\006\003\125\004\006\023\002\125\123\061\013
\060\011\006\003\125\004\010\023\002\125\124\061\027\060\025\006
\003\125\004\007\023\016\123\141\154\164\040\114\141\153\145\040
\103\151\164\171\061\036\060\034\006\003\125\004\012\023\025\124
\150\145\040\125\123\105\122\124\122\125\123\124\040\116\145\164
\167\157\162\153\061\041\060\037\006\003\125\004\013\023\030\150
\164\164\160\072\057\057\167\167\167\056\165\163\145\162\164\162
\165\163\164\056\143\157\155\061\035\060\033\006\003\125\004\003
\023\024\125\124\116\055\125\123\105\122\106\151\162\163\164\055
\117\142\152\145\143\164\060\036\027\015\071\071\060\067\060\071
\061\070\063\061\062\060\132\027\015\061\071\060\067\060\071\061
\070\064\060\063\066\132\060\201\225\061\013\060\011\006\003\125
\004\006\023\002\125\123\061\013\060\011\006\003\125\004\010\023
\002\125\124\061\027\060\025\006\003\125\004\007\023\016\123\141
\154\164\040\114\141\153\145\040\103\151\164\171\061\036\060\034
\006\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124
\122\125\123\124\040\116\145\164\167\157\162\153\061\041\060\037
\006\003\125\004\013\023\030\150\164\164\160\072\057\057\167\167
\167\056\165\163\145\162\164\162\165\163\164\056\143\157\155\061
\035\060\033\006\003\125\004\003\023\024\125\124\116\055\125\123
\105\122\106\151\162\163\164\055\117\142\152\145\143\164\060\202
\001\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\001\017\000\060\202\001\012\002\202\001\001\000\316
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\037\034\337\072\233\202\150\060\300\112\141\035\361\057\016\372
\276\171\367\245\043\357\125\121\226\204\315\333\343\271\156\076
\061\330\012\040\147\307\364\331\277\224\353\107\004\076\002\316
\052\242\135\207\004\011\366\060\235\030\212\227\262\252\034\374
\101\322\241\066\313\373\075\221\272\347\331\160\065\372\344\347
\220\303\233\243\233\323\074\365\022\231\167\261\267\011\340\150
\346\034\270\363\224\143\210\152\152\376\013\166\311\276\364\042
\344\147\271\253\032\136\167\301\205\007\335\015\154\277\356\006
\307\167\152\101\236\247\017\327\373\356\224\027\267\374\205\276
\244\253\304\034\061\335\327\266\321\344\360\357\337\026\217\262
\122\223\327\241\324\211\241\007\056\277\341\001\022\102\036\032
\341\330\225\064\333\144\171\050\377\272\056\021\302\345\350\133
\222\110\373\107\013\302\154\332\255\062\203\101\363\245\345\101
\160\375\145\220\155\372\372\121\304\371\275\226\053\031\004\054
\323\155\247\334\360\177\157\203\145\342\152\253\207\206\165\002
\003\001\000\001\243\201\257\060\201\254\060\013\006\003\125\035
\017\004\004\003\002\001\306\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004
\026\004\024\332\355\144\164\024\234\024\074\253\335\231\251\275
\133\050\115\213\074\311\330\060\102\006\003\125\035\037\004\073
\060\071\060\067\240\065\240\063\206\061\150\164\164\160\072\057
\057\143\162\154\056\165\163\145\162\164\162\165\163\164\056\143
\157\155\057\125\124\116\055\125\123\105\122\106\151\162\163\164
\055\117\142\152\145\143\164\056\143\162\154\060\051\006\003\125
\035\045\004\042\060\040\006\010\053\006\001\005\005\007\003\003
\006\010\053\006\001\005\005\007\003\010\006\012\053\006\001\004
\001\202\067\012\003\004\060\015\006\011\052\206\110\206\367\015
\001\001\005\005\000\003\202\001\001\000\010\037\122\261\067\104
\170\333\375\316\271\332\225\226\230\252\125\144\200\265\132\100
\335\041\245\305\301\363\137\054\114\310\107\132\151\352\350\360
\065\065\364\320\045\363\310\246\244\207\112\275\033\261\163\010
\275\324\303\312\266\065\273\131\206\167\061\315\247\200\024\256
\023\357\374\261\110\371\153\045\045\055\121\266\054\155\105\301
\230\310\212\126\135\076\356\103\116\076\153\047\216\320\072\113
\205\013\137\323\355\152\247\165\313\321\132\207\057\071\165\023
\132\162\260\002\201\237\276\360\017\204\124\040\142\154\151\324
\341\115\306\015\231\103\001\015\022\226\214\170\235\277\120\242
\261\104\252\152\317\027\172\317\157\017\324\370\044\125\137\360
\064\026\111\146\076\120\106\311\143\161\070\061\142\270\142\271
\363\123\255\154\265\053\242\022\252\031\117\011\332\136\347\223
\306\216\024\010\376\360\060\200\030\240\206\205\115\310\175\327
\213\003\376\156\325\367\235\026\254\222\054\240\043\345\234\221
\122\037\224\337\027\224\163\303\263\301\301\161\005\040\000\170
\275\023\122\035\250\076\315\000\037\310
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "UTN-USERFirst-Object"
Issuer: CN=UTN-USERFirst-Object,OU=http://www.usertrust.com,O=The USERTRUST Network,L=Salt Lake City,ST=UT,C=US
Serial Number:44:be:0c:8b:50:00:24:b4:11:d3:36:2d:e0:b3:5f:1b
Subject: CN=UTN-USERFirst-Object,OU=http://www.usertrust.com,O=The USERTRUST Network,L=Salt Lake City,ST=UT,C=US
Not Valid Before: Fri Jul 09 18:31:20 1999
Not Valid After: Tue Jul 09 18:40:36 2019
Fingerprint (MD5): a7:f2:e4:16:06:41:11:50:30:6b:9c:e3:b4:9c:b0:c9
Fingerprint (SHA1): e1:2d:fb:4b:41:d7:d9:c3:2b:30:51:4b:ac:1d:81:d8:38:5e:2d:46
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UTN-USERFirst-Object"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\341\055\373\113\101\327\331\303\053\060\121\113\254\035\201\330
\070\136\055\106
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\247\362\344\026\006\101\021\120\060\153\234\343\264\234\260\311
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\225\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\013\060\011\006\003\125\004\010\023\002\125\124\061\027\060
\025\006\003\125\004\007\023\016\123\141\154\164\040\114\141\153
\145\040\103\151\164\171\061\036\060\034\006\003\125\004\012\023
\025\124\150\145\040\125\123\105\122\124\122\125\123\124\040\116
\145\164\167\157\162\153\061\041\060\037\006\003\125\004\013\023
\030\150\164\164\160\072\057\057\167\167\167\056\165\163\145\162
\164\162\165\163\164\056\143\157\155\061\035\060\033\006\003\125
\004\003\023\024\125\124\116\055\125\123\105\122\106\151\162\163
\164\055\117\142\152\145\143\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\104\276\014\213\120\000\044\264\021\323\066\055\340\263
\137\033
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "BYTE Root Certification Authority 001"
Issuer: CN=BYTE Root Certification Authority 001,O=BYTE Computer S.A.,C=GR

Serial Number:71:8c:2f:39:7c:40:74:40
Subject: CN=BYTE Root Certification Authority 001,O=BYTE Computer S.A.,C=GR
Not Valid Before: Wed Sep 10 22:01:54 2014
Not Valid After: Sat Sep 10 22:01:54 2039
Fingerprint (MD5): fa:fb:82:6a:e5:b3:a2:83:50:9b:83:28:b6:41:42:03
Fingerprint (SHA1): 3f:0f:eb:17:a7:ef:58:04:cf:d9:0a:77:b7:bb:02:1e:a6:9c:64:18
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "BYTE Root Certification Authority 001"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\033\060\031\006\003\125\004\012\014\022\102\131\124\105\040\103
\157\155\160\165\164\145\162\040\123\056\101\056\061\056\060\054
\006\003\125\004\003\014\045\102\131\124\105\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\060\060\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\033\060\031\006\003\125\004\012\014\022\102\131\124\105\040\103
\157\155\160\165\164\145\162\040\123\056\101\056\061\056\060\054
\006\003\125\004\003\014\045\102\131\124\105\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\060\060\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\161\214\057\071\174\100\164\100
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\231\060\202\003\201\240\003\002\001\002\002\010\161
\214\057\071\174\100\164\100\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\132\061\013\060\011\006\003\125\004
\006\023\002\107\122\061\033\060\031\006\003\125\004\012\014\022
\102\131\124\105\040\103\157\155\160\165\164\145\162\040\123\056
\101\056\061\056\060\054\006\003\125\004\003\014\045\102\131\124
\105\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\060
\060\061\060\036\027\015\061\064\060\071\061\060\062\062\060\061
\065\064\132\027\015\063\071\060\071\061\060\062\062\060\061\065
\064\132\060\132\061\013\060\011\006\003\125\004\006\023\002\107
\122\061\033\060\031\006\003\125\004\012\014\022\102\131\124\105
\040\103\157\155\160\165\164\145\162\040\123\056\101\056\061\056
\060\054\006\003\125\004\003\014\045\102\131\124\105\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156

\040\101\165\164\150\157\162\151\164\171\040\060\060\061\060\202
\002\042\060\015\006\011\052\206\110\206\367\015\001\001\001\005
\000\003\202\002\017\000\060\202\002\012\002\202\002\001\000\355
\022\056\027\163\236\157\364\363\231\350\236\010\127\011\064\044
\021\100\037\214\041\176\033\257\070\303\321\307\346\024\345\372
\033\272\136\146\365\045\151\367\355\315\156\202\160\257\272\102
\360\261\031\134\053\374\105\204\030\054\172\027\117\141\205\106
\031\174\316\301\215\237\124\236\167\045\146\017\340\366\370\222
\312\051\316\047\127\025\052\154\202\070\155\047\346\276\115\163
\016\163\257\343\161\075\274\011\102\017\325\015\241\355\175\153
\256\367\301\360\154\315\302\227\241\130\375\065\025\226\027\114
\237\277\365\361\071\113\160\267\347\112\154\034\077\301\160\133
\317\326\213\353\357\157\060\350\137\310\106\167\041\142\026\136
\306\124\105\071\365\164\272\147\044\150\245\161\133\076\301\373
\011\223\353\042\231\370\322\365\173\002\154\217\130\342\253\357
\335\164\041\344\044\151\224\100\326\301\004\030\016\330\102\360
\375\327\212\005\300\137\033\212\353\056\300\015\007\006\163\001
\205\216\037\301\300\212\241\130\246\121\271\130\221\102\017\156
\341\274\012\350\273\050\203\025\165\345\015\376\111\060\051\051
\102\302\302\066\377\244\074\175\056\367\332\362\242\057\026\274
\141\250\231\130\030\244\111\306\152\007\022\353\033\174\264\316
\347\373\041\200\053\160\246\310\316\255\125\036\037\035\204\320
\375\124\152\114\126\143\310\335\176\240\371\071\333\357\174\132
\367\214\065\245\156\052\126\372\376\343\137\223\124\162\016\150
\343\111\053\223\115\065\042\227\024\225\146\117\247\167\072\056
\045\114\366\011\213\022\033\161\305\162\247\233\271\274\353\034
\240\245\311\124\203\141\334\127\125\255\265\346\332\170\053\166
\247\376\370\333\376\214\063\244\212\243\106\134\255\262\012\022
\016\212\344\120\236\360\270\313\231\123\114\144\041\153\212\070
\052\340\210\206\000\324\027\254\146\262\347\276\055\073\051\345
\370\247\224\333\214\130\370\322\113\060\237\362\304\142\145\120
\107\162\200\317\244\160\100\266\275\104\376\331\277\050\053\056
\067\307\263\121\016\202\051\265\261\157\255\176\054\223\300\251
\177\221\372\307\037\065\360\273\227\311\117\141\050\220\204\101
\350\175\041\100\305\311\206\074\355\232\255\205\234\242\123\002
\003\001\000\001\243\143\060\141\060\035\006\003\125\035\016\004
\026\004\024\264\115\146\267\323\263\310\231\174\001\062\320\221
\072\367\326\250\022\061\336\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\037\006\003\125\035\043\004
\030\060\026\200\024\264\115\146\267\323\263\310\231\174\001\062
\320\221\072\367\326\250\022\061\336\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\001\006\060\015\006\011\052\206\110
\206\367\015\001\001\013\005\000\003\202\002\001\000\034\032\353
\006\256\125\275\073\077\066\054\141\236\352\307\123\374\160\252
\062\157\344\102\252\353\275\205\354\033\212\132\362\225\226\051
\241\004\006\222\316\044\127\377\100\043\170\116\311\370\060\115
\102\125\104\116\067\242\175\153\216\150\376\016\376\177\337\260
\237\143\121\363\341\305\245\224\237\212\043\050\110\363\101\213

\322\376\170\355\331\320\010\017\155\175\325\235\225\254\325\376
\022\146\032\344\276\165\124\363\321\115\234\116\023\324\236\160
\064\155\250\272\012\063\210\215\255\005\067\376\113\171\177\175
\003\101\171\023\015\237\075\367\070\234\065\132\104\117\076\074
\242\345\201\305\177\137\166\117\033\073\156\157\232\155\267\355
\017\313\062\037\210\264\105\014\234\021\322\370\004\132\023\067
\131\230\201\316\114\364\345\224\050\004\304\265\123\311\124\215
\160\077\150\001\333\314\023\012\344\045\243\154\231\355\020\263
\172\040\251\111\274\005\364\370\033\150\326\272\040\035\202\147
\146\340\260\237\134\312\065\322\105\256\325\210\031\333\172\006
\233\214\240\067\207\121\043\276\105\332\134\263\177\153\317\306
\250\034\063\212\173\035\221\372\236\274\354\175\073\105\025\117
\033\247\073\065\264\171\363\133\202\120\340\234\247\355\026\165
\333\143\200\142\241\332\030\002\152\200\336\202\252\104\115\104
\070\050\252\156\372\030\143\071\140\367\103\051\111\132\272\044
\300\277\263\012\227\035\147\111\132\042\262\147\004\234\130\251
\370\014\064\134\100\226\264\207\265\105\141\031\345\216\357\006
\336\221\025\300\270\212\312\224\311\012\165\175\161\073\130\201
\063\310\367\007\101\125\230\051\103\265\313\232\103\351\162\372
\317\360\213\061\274\347\357\271\152\343\101\235\041\076\015\025
\250\205\275\033\116\207\216\107\262\020\376\067\030\152\204\345
\211\034\024\143\350\271\203\251\265\273\350\143\232\172\031\214
\313\164\367\370\027\010\361\213\031\330\264\354\036\156\111\163
\077\134\040\335\065\052\226\167\351\106\157\026\073\313\251\357
\233\012\041\021\310\303\244\311\043\105\155\077\142\225\235\323
\050\307\235\017\263\376\067\215\035\110\262\120\346\045\271\116
\063\141\066\326\026\034\312\062\067\040\166\034\054
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "BYTE Root Certification Authority 001"
Issuer: CN=BYTE Root Certification Authority 001,O=BYTE Computer S.A.,C=GR
Serial Number:71:8c:2f:39:7c:40:74:40
Subject: CN=BYTE Root Certification Authority 001,O=BYTE Computer S.A.,C=GR
Not Valid Before: Wed Sep 10 22:01:54 2014
Not Valid After: Sat Sep 10 22:01:54 2039
Fingerprint (MD5): fa:fb:82:6a:e5:b3:a2:83:50:9b:83:28:b6:41:42:03
Fingerprint (SHA1): 3f:0f:eb:17:a7:ef:58:04:cf:d9:0a:77:b7:bb:02:1e:a6:9c:64:18
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "BYTE Root Certification Authority 001"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\077\017\353\027\247\357\130\004\317\331\012\167\267\273\002\036

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\246\234\144\030
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\372\373\202\152\345\263\242\203\120\233\203\050\266\101\102\003
END
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\033\060\031\006\003\125\004\012\014\022\102\131\124\105\040\103
\157\155\160\165\164\145\162\040\123\056\101\056\061\056\060\054
\006\003\125\004\003\014\045\102\131\124\105\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\060\060\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\161\214\057\071\174\100\164\100
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "CISRCA1"
# Issuer: CN=CISRCA1,OU=Certification Authorities,O=Carillon Information Security Inc.,C=CA
# Serial Number:0b:82:dc:94:33:76
# Subject: CN=CISRCA1,OU=Certification Authorities,O=Carillon Information Security Inc.,C=CA
# Not Valid Before: Tue Oct 16 18:28:33 2012
# Not Valid After: Sat Oct 16 18:28:33 2032
# Fingerprint (MD5): 21:48:4b:8f:d5:50:78:27:86:80:c9:86:93:ad:b1:38
# Fingerprint (SHA1): a6:9e:03:36:c4:e5:90:23:ff:65:3c:71:f9:28:eb:73:f2:1c:00:f0
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CISRCA1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\160\061\013\060\011\006\003\125\004\006\023\002\103\101\061
\053\060\051\006\003\125\004\012\023\042\103\141\162\151\154\154
\157\156\040\111\156\146\157\162\155\141\164\151\157\156\040\123
\145\143\165\162\151\164\171\040\111\156\143\056\061\042\060\040
\006\003\125\004\013\023\031\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\151\145\163
\061\020\060\016\006\003\125\004\003\023\007\103\111\123\122\103
\101\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
```

\060\160\061\013\060\011\006\003\125\004\006\023\002\103\101\061
\053\060\051\006\003\125\004\012\023\042\103\141\162\151\154\154
\157\156\040\111\156\146\157\162\155\141\164\151\157\156\040\123
\145\143\165\162\151\164\171\040\111\156\143\056\061\042\060\040
\006\003\125\004\013\023\031\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\151\145\163
\061\020\060\016\006\003\125\004\003\023\007\103\111\123\122\103
\101\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\006\013\202\334\224\063\166
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\242\060\202\003\212\240\003\002\001\002\002\006\013
\202\334\224\063\166\060\015\006\011\052\206\110\206\367\015\001
\001\013\005\000\060\160\061\013\060\011\006\003\125\004\006\023
\002\103\101\061\053\060\051\006\003\125\004\012\023\042\103\141
\162\151\154\154\157\156\040\111\156\146\157\162\155\141\164\151
\157\156\040\123\145\143\165\162\151\164\171\040\111\156\143\056
\061\042\060\040\006\003\125\004\013\023\031\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\151\145\163\061\020\060\016\006\003\125\004\003\023\007\103
\111\123\122\103\101\061\060\036\027\015\061\062\061\060\061\066
\061\070\062\070\063\063\132\027\015\063\062\061\060\061\066\061
\070\062\070\063\063\132\060\160\061\013\060\011\006\003\125\004
\006\023\002\103\101\061\053\060\051\006\003\125\004\012\023\042
\103\141\162\151\154\154\157\156\040\111\156\146\157\162\155\141
\164\151\157\156\040\123\145\143\165\162\151\164\171\040\111\156
\143\056\061\042\060\040\006\003\125\004\013\023\031\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\151\145\163\061\020\060\016\006\003\125\004\003\023
\007\103\111\123\122\103\101\061\060\202\002\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000
\060\202\002\012\002\202\002\001\000\304\166\361\142\152\137\315
\051\315\004\066\177\156\141\176\163\364\235\146\337\042\132\232
\203\104\201\146\375\116\021\260\076\254\350\210\262\123\071\377
\343\272\276\324\377\323\205\330\275\133\257\150\117\063\254\270
\024\175\022\133\172\225\153\307\066\376\053\217\364\210\140\211
\072\252\131\070\114\301\135\125\201\245\337\330\037\061\172\323
\243\116\360\121\313\303\061\207\256\013\336\312\136\033\241\164
\070\360\222\167\161\074\313\023\176\240\301\012\230\275\330\270
\370\124\064\230\116\147\026\232\127\113\046\206\137\033\146\162
\252\301\362\150\202\235\130\101\174\161\042\342\317\001\061\376
\342\340\126\251\150\340\255\063\257\065\071\056\234\156\006\114
\363\043\166\057\151\046\350\005\071\151\267\365\110\032\367\337
\331\071\067\062\125\021\047\004\201\037\235\074\213\214\203\122
\167\301\256\054\315\053\052\112\345\055\361\031\151\272\207\136
\213\235\340\161\310\164\322\315\356\156\070\067\152\135\031\000

\322\166\335\242\353\156\073\252\035\365\066\006\117\137\136\154
\302\020\363\335\157\265\332\171\132\376\325\106\104\064\110\257
\206\000\064\174\044\204\335\105\220\371\026\202\254\250\221\324
\351\106\063\157\176\272\107\037\341\357\257\345\120\326\306\371
\247\355\154\227\252\053\051\116\135\305\370\036\366\164\311\253
\044\370\015\123\307\150\025\276\374\134\253\075\162\013\322\160
\004\267\026\343\151\251\361\147\272\306\000\114\173\200\064\065
\056\136\355\037\240\045\367\245\202\152\020\177\277\217\131\157
\303\106\246\312\102\116\102\043\205\006\071\065\214\265\361\327
\301\043\102\105\375\057\045\161\370\363\007\323\007\150\276\333
\230\154\052\366\245\107\367\260\145\140\255\256\174\346\021\035
\047\124\010\145\260\330\202\300\141\153\351\176\217\042\326\161
\035\153\101\040\145\330\127\232\037\174\016\132\124\340\224\260
\155\165\357\050\062\065\074\125\303\155\147\370\044\275\373\100
\363\132\235\066\331\065\114\273\342\153\331\261\066\017\344\157
\040\032\305\157\172\303\221\071\257\257\314\363\366\275\040\206
\272\323\044\041\074\037\067\051\346\237\374\032\277\230\337\074
\272\040\041\022\251\302\072\052\223\002\003\001\000\001\243\102
\060\100\060\035\006\003\125\035\016\004\026\004\024\352\225\025
\332\134\071\000\342\232\333\304\272\055\147\372\241\367\165\064
\355\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\306\060\015\006\011\052\206\110\206\367\015\001\001\013\005
\000\003\202\002\001\000\065\320\330\270\236\362\011\370\360\237
\262\156\110\262\327\352\241\233\050\211\071\315\376\026\152\035
\351\234\202\137\121\107\072\365\236\321\274\256\037\237\342\134
\112\310\354\355\106\102\361\174\103\007\025\337\156\227\366\355
\206\374\237\305\010\136\202\016\243\056\250\012\056\274\216\033
\061\022\050\366\171\050\301\042\266\321\225\151\100\350\131\011
\047\242\221\144\166\352\320\023\215\160\374\145\303\157\021\237
\052\110\312\247\142\365\203\024\345\032\026\307\221\213\264\011
\305\316\173\343\344\035\155\227\242\351\313\046\036\153\264\334
\076\203\166\057\136\115\250\150\211\124\375\116\322\106\250\100
\366\330\312\170\317\066\032\075\131\145\214\233\365\053\037\114
\202\337\170\170\115\046\112\107\151\255\157\063\037\003\036\042
\116\331\006\131\236\106\374\120\065\137\306\205\033\344\033\370
\000\311\340\323\072\253\046\103\315\107\372\132\370\205\013\307
\062\332\265\015\055\060\051\072\171\263\024\351\245\017\160\045
\321\215\011\120\224\355\115\222\236\060\067\100\333\132\170\111
\217\017\071\057\275\056\327\253\010\224\311\051\212\367\335\214
\275\202\174\060\133\142\350\065\106\126\070\135\221\366\016\157
\214\356\225\237\375\164\235\355\355\020\253\316\213\217\267\255
\177\115\151\111\360\307\021\125\233\232\202\367\242\372\063\362
\104\021\372\025\113\106\251\233\153\227\102\326\264\267\011\021
\024\171\123\246\347\177\055\047\072\012\064\044\104\316\125\214
\172\200\165\163\002\113\342\372\106\224\175\063\024\015\102\126
\271\240\346\057\205\110\221\237\104\272\241\050\251\261\037\211
\172\046\012\123\134\205\271\174\204\230\214\050\140\245\266\172

\215\075\240\000\075\334\177\252\110\351\250\056\254\137\336\207
\055\134\244\153\026\352\275\350\225\265\316\170\011\370\161\066
\345\220\150\322\007\226\272\274\000\213\016\230\155\115\160\123
\300\303\314\033\023\234\110\232\231\075\022\300\047\216\141\222
\114\150\122\157\215\003\034\211\365\323\206\300\377\161\111\117
\040\153\375\321\157\221\044\365\361\107\043\115\131\337\320\275
\111\102\375\100\070\076\342\361\005\134\045\350\020\344\132\002
\003\343\273\174\045\052
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "CISRCA1"
Issuer: CN=CISRCA1,OU=Certification Authorities,O=Carillon Information Security Inc.,C=CA
Serial Number:0b:82:dc:94:33:76
Subject: CN=CISRCA1,OU=Certification Authorities,O=Carillon Information Security Inc.,C=CA
Not Valid Before: Tue Oct 16 18:28:33 2012
Not Valid After: Sat Oct 16 18:28:33 2032
Fingerprint (MD5): 21:48:4b:8f:d5:50:78:27:86:80:c9:86:93:ad:b1:38
Fingerprint (SHA1): a6:9e:03:36:c4:e5:90:23:ff:65:3c:71:f9:28:eb:73:f2:1c:00:f0
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CISRCA1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\246\236\003\066\304\345\220\043\377\145\074\161\371\050\353\163
\362\034\000\360
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\041\110\113\217\325\120\170\047\206\200\311\206\223\255\261\070
END
CKA_ISSUER MULTILINE_OCTAL
\060\160\061\013\060\011\006\003\125\004\006\023\002\103\101\061
\053\060\051\006\003\125\004\012\023\042\103\141\162\151\154\154
\157\156\040\111\156\146\157\162\155\141\164\151\157\156\040\123
\145\143\165\162\151\164\171\040\111\156\143\056\061\042\060\040
\006\003\125\004\013\023\031\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\151\145\163
\061\020\060\016\006\003\125\004\003\023\007\103\111\123\122\103
\101\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\006\013\202\334\224\063\166
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "ePKI Root Certification Authority - G2"
Issuer: CN=ePKI Root Certification Authority - G2,O=Chunghwa Telecom Co.\, Ltd.,C=TW
Serial Number:d6:96:2e:c1:0a:15:93:12:af:8f:63:bc:d4:44:c9:5b
Subject: CN=ePKI Root Certification Authority - G2,O=Chunghwa Telecom Co.\, Ltd.,C=TW
Not Valid Before: Tue Nov 17 08:23:42 2015
Not Valid After: Thu Dec 31 15:59:59 2037
Fingerprint (MD5): 7d:f0:01:73:ed:fc:31:9d:16:86:7b:35:c7:26:dd:72
Fingerprint (SHA1): d9:9b:10:42:98:59:47:63:f0:b9:a9:27:b7:92:69:cb:47:dd:15:8b
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ePKI Root Certification Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\057\060\055\006\003\125\004\003\014\046\145
\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\055\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\057\060\055\006\003\125\004\003\014\046\145
\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\326\226\056\301\012\025\223\022\257\217\143\274\324
\104\311\133
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\223\060\202\003\173\240\003\002\001\002\002\021\000
\326\226\056\301\012\025\223\022\257\217\143\274\324\104\311\133
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\143\061\013\060\011\006\003\125\004\006\023\002\124\127\061\043
\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150\167

\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040\114
\164\144\056\061\057\060\055\006\003\125\004\003\014\046\145\120
\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040
\055\040\107\062\060\036\027\015\061\065\061\061\061\067\060\070
\062\063\064\062\132\027\015\063\067\061\062\063\061\061\065\065
\071\065\071\132\060\143\061\013\060\011\006\003\125\004\006\023
\002\124\127\061\043\060\041\006\003\125\004\012\014\032\103\150
\165\156\147\150\167\141\040\124\145\154\145\143\157\155\040\103
\157\056\054\040\114\164\144\056\061\057\060\055\006\003\125\004
\003\014\046\145\120\113\111\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171\040\055\040\107\062\060\202\002\042\060\015\006
\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017
\000\060\202\002\012\002\202\002\001\000\244\131\037\240\057\337
\276\340\373\351\334\265\211\376\132\227\003\311\072\167\247\216
\134\257\362\343\030\071\365\252\335\017\106\322\150\017\127\234
\247\143\140\323\130\316\065\302\247\366\210\302\117\177\033\050
\351\320\247\000\304\027\115\155\342\017\305\016\046\043\040\253
\367\072\050\242\114\012\013\314\216\316\346\000\232\132\100\015
\324\120\032\233\321\015\234\224\371\333\356\134\320\361\212\007
\315\232\053\100\054\111\244\135\142\137\247\153\337\356\126\010
\120\363\102\030\154\061\260\136\345\234\163\222\274\016\322\014
\175\305\070\127\274\273\130\333\046\031\002\355\343\103\204\212
\116\126\153\333\255\241\061\331\314\042\147\226\170\377\167\235
\314\144\305\062\040\152\357\116\060\325\044\045\375\210\171\257
\161\032\376\325\113\033\025\210\274\030\160\252\275\255\070\012
\146\060\106\345\211\205\325\166\044\251\251\263\346\131\140\017
\264\251\123\302\072\235\105\032\326\256\343\167\136\304\142\066
\063\057\060\304\277\225\361\055\070\245\165\350\321\152\223\056
\105\207\113\112\242\337\277\130\047\232\312\142\031\252\136\324
\261\200\111\226\335\053\354\137\217\233\340\235\227\210\365\204
\003\243\257\263\245\163\055\101\272\345\007\267\157\153\161\367
\367\311\132\257\151\231\263\057\310\117\102\353\154\153\161\147
\170\337\012\254\117\327\112\205\000\106\032\325\315\270\237\352
\225\235\017\174\321\306\005\205\346\010\336\210\027\201\366\325
\265\156\352\241\034\327\141\252\343\131\102\211\234\131\176\261
\174\144\064\335\141\043\052\071\265\020\253\374\206\251\123\032
\305\353\152\342\200\116\131\221\300\070\211\376\263\135\326\373
\221\351\327\260\175\331\170\010\314\365\053\314\053\341\241\326
\224\163\301\376\121\364\214\175\012\265\232\212\271\365\332\340
\311\263\330\217\252\202\203\215\151\123\055\375\000\004\030\112
\240\332\124\341\171\214\211\353\177\365\202\347\240\271\167\115
\256\371\272\002\073\210\166\353\174\135\263\132\023\333\174\051
\026\153\231\321\035\344\110\041\242\015\136\001\210\350\276\361
\230\115\076\307\026\127\034\137\341\010\157\034\114\130\103\126
\367\200\145\214\161\016\242\004\147\117\002\003\001\000\001\243
\102\060\100\060\017\006\003\125\035\023\001\001\377\004\005\060

\003\001\001\377\060\035\006\003\125\035\016\004\026\004\024\162
\133\272\252\162\070\356\045\220\044\265\224\042\372\011\210\312
\213\012\373\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\006\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\003\202\002\001\000\006\243\361\266\163\125\306\147\146
\041\345\235\133\326\224\056\112\042\140\362\124\001\220\241\375
\265\277\300\225\277\030\137\054\366\153\065\016\374\061\310\355
\104\016\222\227\334\257\335\126\317\265\037\272\162\234\060\310
\233\261\221\300\166\167\324\017\032\225\032\351\115\024\210\241
\317\153\002\246\152\353\144\105\115\144\215\336\374\353\154\362
\123\011\241\205\121\025\320\117\236\142\372\021\271\316\310\044
\016\162\144\210\165\064\043\060\052\077\274\074\071\314\314\335
\013\066\273\275\006\202\217\022\001\305\161\005\321\044\241\231
\154\312\344\367\252\355\212\327\247\012\255\257\360\340\200\273
\241\262\077\132\207\144\160\206\063\173\015\036\327\000\206\203
\103\227\165\365\073\301\110\375\266\016\103\250\002\156\270\076
\177\217\116\342\135\264\175\236\060\064\057\250\361\353\047\207
\150\015\132\012\115\001\333\311\024\130\225\362\232\115\026\252
\163\333\364\045\210\027\070\267\257\131\011\011\264\037\055\017
\253\365\270\047\125\356\105\060\063\270\355\033\216\274\210\154
\257\370\132\052\153\340\254\261\005\044\241\011\374\243\017\363
\260\055\173\226\272\266\224\007\025\105\216\051\334\130\016\251
\005\330\073\072\240\173\315\212\307\146\202\227\317\326\063\340
\147\374\246\333\100\057\005\345\305\213\172\052\172\360\260\066
\233\014\030\366\067\351\101\241\375\261\050\371\157\153\275\353
\037\114\143\161\173\120\335\051\362\377\356\367\307\105\137\350
\066\012\350\154\133\042\303\350\300\347\046\334\343\250\225\200
\345\271\072\023\333\000\113\032\375\256\063\107\176\170\224\343
\261\135\053\265\126\265\102\213\237\201\305\374\223\114\020\265
\272\012\274\176\067\343\372\124\155\365\004\305\160\263\251\004
\322\121\327\205\315\175\157\103\217\131\150\345\061\126\021\161
\371\144\051\011\023\376\320\037\274\213\000\070\262\320\312\064
\126\166\020\071\126\163\146\303\321\111\331\276\127\117\077\026
\175\152\170\267\250\202\270\133\316\256\205\212\012\102\014\003
\321\027\304\030\367\330\127\210\306\202\270\007\271\076\375\244
\351\056\334\157\272\220\222\356\145\260\120\064\323\007\332\001
\227\017\274\347\163\202\173
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "ePKI Root Certification Authority - G2"
Issuer: CN=ePKI Root Certification Authority - G2,O=Chunghwa Telecom Co.\, Ltd.,C=TW
Serial Number:d6:96:2e:c1:0a:15:93:12:af:8f:63:bc:d4:44:c9:5b
Subject: CN=ePKI Root Certification Authority - G2,O=Chunghwa Telecom Co.\, Ltd.,C=TW
Not Valid Before: Tue Nov 17 08:23:42 2015

Not Valid After: Thu Dec 31 15:59:59 2037
Fingerprint (MD5): 7d:f0:01:73:ed:fc:31:9d:16:86:7b:35:c7:26:dd:72
Fingerprint (SHA1): d9:9b:10:42:98:59:47:63:f0:b9:a9:27:b7:92:69:cb:47:dd:15:8b
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ePKI Root Certification Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\331\233\020\102\230\131\107\143\360\271\251\047\267\222\151\313
\107\335\025\213
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\175\360\001\163\355\374\061\235\026\206\173\065\307\046\335\162
END
CKA_ISSUER MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\057\060\055\006\003\125\004\003\014\046\145
\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\326\226\056\301\012\025\223\022\257\217\143\274\324
\104\311\133
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "ePKI EV SSL Certification Authority - G1"
Issuer: CN=ePKI Root Certification Authority - G2,O=Chunghwa Telecom Co.\, Ltd.,C=TW
Serial Number:f7:4e:18:0c:99:e2:7b:8d:9f:79:4f:b1:b7:c0:bf:48
Subject: CN=ePKI EV SSL Certification Authority - G1,O=Chunghwa Telecom Co.\, Ltd.,C=TW
Not Valid Before: Thu Feb 04 03:06:31 2016
Not Valid After: Mon Feb 04 03:06:31 2030
Fingerprint (MD5): bc:4d:9d:ca:03:11:b5:bc:94:7a:f1:1b:2a:20:16:d6
Fingerprint (SHA1): 81:ac:5d:e1:50:d1:b8:de:5d:3e:0e:26:6a:13:6b:73:78:62:d3:22
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ePKI EV SSL Certification Authority - G1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\061\060\057\006\003\125\004\003\014\050\145
\120\113\111\040\105\126\040\123\123\114\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\057\060\055\006\003\125\004\003\014\046\145
\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151
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CKA_SERIAL_NUMBER MULTILINE_OCTAL
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\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150\167
\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040\114
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\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040
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\060\066\063\061\132\027\015\063\060\060\062\060\064\060\063\060
\066\063\061\132\060\145\061\013\060\011\006\003\125\004\006\023
\002\124\127\061\043\060\041\006\003\125\004\012\014\032\103\150
\165\156\147\150\167\141\040\124\145\154\145\143\157\155\040\103
\157\056\054\040\114\164\144\056\061\061\060\057\006\003\125\004
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\150\157\162\151\164\171\040\055\040\107\061\060\202\001\042\060
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\136\236\036\371\147\367\036\234\052\203\070\072\150\356\263\137
\163\345\215\372\265\167\234\245\000\257\174\223\051\102\356\300
\377\337\015\331\035\110\057\320\312\017\064\163\025\323\166\273
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\204\257\251\012\210\274\360\306\344\076\012\330\051\167\340\033
\061\171\055\153\101\302\032\177\344\055\012\303\000\013\111\036
\052\125\355\230\167\136\225\363\234\324\330\124\041\035\311\022
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\352\324\350\247\165\205\046\353\316\211\343\344\172\001\277\060
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\361\351\364\171\114\155\345\004\032\026\130\366\360\147\120\356
\035\151\326\237\261\107\364\227\353\350\330\223\053\217\217\000
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\072\057\057\145\143\141\056\150\151\156\145\164\056\156\145\164
\057\162\145\160\157\163\151\164\157\162\171\057\103\122\114\062
\057\103\101\056\143\162\154\060\201\213\006\010\053\006\001\005
\005\007\001\001\004\177\060\175\060\104\006\010\053\006\001\005
\005\007\060\002\206\070\150\164\164\160\072\057\057\145\143\141
\056\150\151\156\145\164\056\156\145\164\057\162\145\160\157\163
\151\164\157\162\171\057\103\145\162\164\163\057\111\163\163\165
\145\144\124\157\124\150\151\163\103\101\056\160\067\142\060\065
\006\010\053\006\001\005\005\007\060\001\206\051\150\164\164\160
\072\057\057\157\143\163\160\056\145\143\141\056\150\151\156\145
\164\056\156\145\164\057\117\103\123\120\057\157\143\163\160\107
\062\163\150\141\062\060\022\006\003\125\035\023\001\001\377\004
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\054\006\010\053\006\001\005\005\007\002\001\026\040\150\164\164
\160\163\072\057\057\145\143\141\056\150\151\156\145\164\056\156
\145\164\057\162\145\160\157\163\151\164\157\162\171\060\015\006
\011\052\206\110\206\367\015\001\001\013\005\000\003\202\002\001
\000\024\176\101\241\225\160\343\303\026\140\321\153\074\006\373
\025\251\123\316\325\072\371\002\026\010\042\153\325\330\252\336
\115\212\033\123\141\335\276\207\134\035\247\177\277\065\124\250
\146\045\337\157\051\017\326\236\076\307\164\063\231\220\175\210
\314\141\346\151\070\060\136\216\150\023\013\316\123\113\210\330
\324\333\216\264\261\023\233\317\243\047\000\072\334\322\102\171
\046\166\063\067\157\146\271\033\020\072\314\270\013\355\223\321
\240\274\346\066\323\257\061\164\227\174\170\140\075\212\252\264
\123\215\163\115\371\030\016\303\344\027\252\120\351\030\013\060
\353\026\343\160\273\117\332\165\261\073\104\132\265\100\261\322
\225\304\200\001\264\024\257\173\105\075\215\067\046\200\313\063

\056\372\212\004\076\030\052\175\064\325\056\242\171\072\143\253
\315\233\040\305\125\203\200\136\321\260\273\263\272\223\173\073
\215\121\133\054\173\213\377\246\253\334\034\031\144\136\245\021
\226\164\231\034\016\234\016\015\173\350\330\363\223\235\132\310
\244\356\315\024\010\345\343\102\353\235\212\124\333\063\354\344
\352\133\160\126\006\263\173\130\053\330\345\015\261\332\344\323
\244\127\140\351\113\243\236\077\342\155\346\203\060\040\306\335
\231\276\265\327\057\063\252\003\117\365\213\140\301\062\304\000
\164\250\265\310\065\327\102\320\004\174\350\066\037\003\016\303
\364\057\326\074\317\055\357\214\302\064\125\140\127\147\346\033
\164\165\251\042\105\313\316\154\145\171\207\101\221\066\305\354
\044\206\367\322\120\141\327\255\234\341\253\060\346\371\063\012
\007\101\050\370\270\023\170\341\277\027\035\136\031\265\112\227
\253\343\346\222\014\200\221\354\253\172\312\224\156\004\236\143
\014\041\106\220\132\223\234\221\063\370\104\134\255\170\314\232
\103\326\347\212\337\351\272\167\314\067\035\310\075\302\106\345
\031\123\260\234\341\345\275\322\047\321\152\034\273\256\120\265
\353\130\326\261\161\352\330\231\325\056\111\077\123\272\271\204
\110\264\321\016\203\343\367\105\323\301\252\304\201\136\020\215
\134\276\255\322\336\202\270\030\162\273\144\032\315\173\033\045
\333\242\202\212\324\315\142\157\134\061\074\127\166\371\017\045
\167
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "ePKI EV SSL Certification Authority - G1"
Issuer: CN=ePKI Root Certification Authority - G2,O=Chunghwa Telecom Co.\, Ltd.,C=TW
Serial Number:f7:4e:18:0c:99:e2:7b:8d:9f:79:4f:b1:b7:c0:bf:48
Subject: CN=ePKI EV SSL Certification Authority - G1,O=Chunghwa Telecom Co.\, Ltd.,C=TW
Not Valid Before: Thu Feb 04 03:06:31 2016
Not Valid After: Mon Feb 04 03:06:31 2030
Fingerprint (MD5): bc:4d:9d:ca:03:11:b5:bc:94:7a:f1:1b:2a:20:16:d6
Fingerprint (SHA1): 81:ac:5d:e1:50:d1:b8:de:5d:3e:0e:26:6a:13:6b:73:78:62:d3:22
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ePKI EV SSL Certification Authority - G1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\201\254\135\341\120\321\270\336\135\076\016\046\152\023\153\163
\170\142\323\042
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\274\115\235\312\003\021\265\274\224\172\361\033\052\040\026\326
END

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CKA_ISSUER MULTILINE_OCTAL
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\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\057\060\055\006\003\125\004\003\014\046\145
\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\367\116\030\014\231\342\173\215\237\171\117\261\267
\300\277\110
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "SSL.com EV Root Certification Authority RSA"
# Issuer: CN=SSL.com EV Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:1d:6c:11:eb:6f:da:39:9d
# Subject: CN=SSL.com EV Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Fri Feb 12 17:50:48 2016
# Not Valid After: Tue Feb 12 17:50:48 2041
# Fingerprint (MD5): ad:b7:7b:b6:c4:5a:d9:dd:9f:eb:b3:ef:3f:c6:31:31
# Fingerprint (SHA1): 1c:b7:ed:e1:76:bc:df:ef:0c:86:6f:46:fb:f9:80:e9:01:e5:ce:35
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority RSA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\064\060\062\006
\003\125\004\003\014\053\123\123\114\056\143\157\155\040\105\126
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122\123
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CKA_ISSUER MULTILINE_OCTAL
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\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
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\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\064\060\062\006
\003\125\004\003\014\053\123\123\114\056\143\157\155\040\105\126
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122\123
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CKA_SERIAL_NUMBER MULTILINE_OCTAL
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END
CKA_VALUE MULTILINE_OCTAL
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\015\001\001\013\005\000\060\177\061\013\060\011\006\003\125\004
\006\023\002\125\123\061\016\060\014\006\003\125\004\010\014\005
\124\145\170\141\163\061\020\060\016\006\003\125\004\007\014\007
\110\157\165\163\164\157\156\061\030\060\026\006\003\125\004\012
\014\017\123\123\114\040\103\157\162\160\157\162\141\164\151\157
\156\061\064\060\062\006\003\125\004\003\014\053\123\123\114\056
\143\157\155\040\105\126\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\040\122\123\101\060\036\027\015\061\066\060\062\061
\062\061\067\065\060\064\070\132\027\015\064\061\060\062\061\062
\061\067\065\060\064\070\132\060\177\061\013\060\011\006\003\125
\004\006\023\002\125\123\061\016\060\014\006\003\125\004\010\014
\005\124\145\170\141\163\061\020\060\016\006\003\125\004\007\014
\007\110\157\165\163\164\157\156\061\030\060\026\006\003\125\004
\012\014\017\123\123\114\040\103\157\162\160\157\162\141\164\151
\157\156\061\064\060\062\006\003\125\004\003\014\053\123\123\114
\056\143\157\155\040\105\126\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171\040\122\123\101\060\202\002\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000
\060\202\002\012\002\202\002\001\000\306\067\174\023\157\317\017
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\067\061\100\020\064\101\172\375\313\224\215\142\177\270\220\315
\316\151\226\072\304\377\331\327\143\346\320\204\045\200\021\277
\321\355\060\350\204\006\341\240\227\270\125\220\035\255\363\244
\232\033\116\234\021\367\365\331\326\217\140\052\076\067\370\165
\354\200\243\125\240\364\047\101\302\252\071\344\122\337\020\371
\365\145\071\077\214\235\314\173\047\317\006\024\167\116\075\122
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\061\302\332\107\173\166\017\102\350\347\042\024\323\215\304\133
\217\213\145\130\051\054\217\016\216\111\324\324\330\012\132\323
\046\323\011\216\330\103\262\224\117\322\300\034\335\164\142\021
\151\274\124\042\350\072\036\320\125\126\105\217\160\160\215\057
\357\302\135\275\136\124\335\056\173\351\030\213\212\111\331\117

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\011\114\267\151\015\017\171\043\043\032\146\215\131\066\143\226
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\243\176\046\020\123\306\310\031\056\036\047\030\373\060\005\075
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\176\113\167\254\067\301\330\355\231\064\240\101\263\065\072\353
\061\064\311\073\337\304\075\051\105\065\124\270\177\226\317\010
\017\351\261\236\125\312\147\204\240\047\140\253\372\120\061\071
\325\173\312\266\232\355\221\214\170\036\371\356\340\342\131\101
\324\037\102\200\171\365\364\203\120\010\255\363\107\101\137\120
\243\237\211\363\264\047\052\124\271\032\131\153\011\234\121\300
\050\153\133\270\050\322\157\065\176\325\223\003\156\164\045\145
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\060\141\060\035\006\003\125\035\016\004\026\004\024\331\132\052
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\114\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\037\006\003\125\035\043\004\030\060\026\200\024\331
\132\052\377\245\316\235\241\221\175\377\207\135\253\152\065\022
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\064\036\170\246\342\121\337\335\170\200\325\352\155\306\252\157
\011\002\214\247\346\313\310\211\132\224\172\112\263\126\357\335
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\252\235\356\247\330\147\222\342\021\132\070\337\230\146\243\240
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\045\174\317\172\175\036\151\306\273\364\024\376\035\035\347\227
\242\206\233\362\337\127\222\006\122\144\223\051\131\012\057\241
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\246\275\204\155\052\174\375\364\355\105\267\060\372\154\134\043
\126\132\074\141\052\307\233\346\305\362\104\267\007\277\166\235
\102\344\134\360\356\271\076\020\363\317\122\322\315\316\122\030

\177\140\366\056\225\114\065\000\114\106\326\020\354\064\313\130
\173\152\015\344\143\125\314\130\331\117\143\147\061\302\122\241
\171\017\052\317\311\116\314\022\313\215\032\132\252\106\061\023
\073\015\351\127\150\132\013\204\004\066\057\237\021\274\074\172
\255\132\277\106\343\267\040\211\035\334\007\174\334\172\353\351
\166\311\000\015\160\267\237\227\032\142\357\030\346\144\276\010
\247\244\231\273\177\214\150\232\230\311\206\142\366\241\230\066
\071\243\363\226\127\244\002\143\371\125\076\260\214\237\277\251
\172\113\074\331\271\256\017\212\364\272\034\045\253\125\131\241
\126\302\063\271\072\304\100\317\213\032\367\003\016\275\033\140
\143\175\045\324\251\276\345
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "SSL.com EV Root Certification Authority RSA"
Issuer: CN=SSL.com EV Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
Serial Number:1d:6c:11:eb:6f:da:39:9d
Subject: CN=SSL.com EV Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
Not Valid Before: Fri Feb 12 17:50:48 2016
Not Valid After: Tue Feb 12 17:50:48 2041
Fingerprint (MD5): ad:b7:7b:b6:c4:5a:d9:dd:9f:eb:b3:ef:3f:c6:31:31
Fingerprint (SHA1): 1c:b7:ed:e1:76:bc:df:ef:0c:86:6f:46:fb:f9:80:e9:01:e5:ce:35
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority RSA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\034\267\355\341\166\274\337\357\014\206\157\106\373\371\200\351
\001\345\316\065
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\255\267\173\266\304\132\331\335\237\353\263\357\077\306\061\061
END
CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\064\060\062\006
\003\125\004\003\014\053\123\123\114\056\143\157\155\040\105\126
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122\123
\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\035\154\021\353\157\332\071\235
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "LuxTrust Global Root 2"
Issuer: CN=LuxTrust Global Root 2,O=LuxTrust S.A.,C=LU
Serial Number:0a:7e:a6:df:4b:44:9e:da:6a:24:85:9e:e6:b8:15:d3:16:7f:bb:b1
Subject: CN=LuxTrust Global Root 2,O=LuxTrust S.A.,C=LU
Not Valid Before: Thu Mar 05 13:21:57 2015
Not Valid After: Mon Mar 05 13:21:57 2035
Fingerprint (MD5): b2:e1:09:00:61:af:f7:f1:91:6f:c4:ad:8d:5e:3b:7c
Fingerprint (SHA1): 1e:0e:56:19:0a:d1:8b:25:98:b2:04:44:ff:66:8a:04:17:99:5f:3f
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "LuxTrust Global Root 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\114\125\061
\026\060\024\006\003\125\004\012\014\015\114\165\170\124\162\165
\163\164\040\123\056\101\056\061\037\060\035\006\003\125\004\003
\014\026\114\165\170\124\162\165\163\164\040\107\154\157\142\141
\154\040\122\157\157\164\040\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\114\125\061
\026\060\024\006\003\125\004\012\014\015\114\165\170\124\162\165
\163\164\040\123\056\101\056\061\037\060\035\006\003\125\004\003
\014\026\114\165\170\124\162\165\163\164\040\107\154\157\142\141
\154\040\122\157\157\164\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\012\176\246\337\113\104\236\332\152\044\205\236\346\270
\025\323\026\177\273\261
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\303\060\202\003\253\240\003\002\001\002\002\024\012
\176\246\337\113\104\236\332\152\044\205\236\346\270\025\323\026
\177\273\261\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\106\061\013\060\011\006\003\125\004\006\023\002\114
\125\061\026\060\024\006\003\125\004\012\014\015\114\165\170\124

\162\165\163\164\040\123\056\101\056\061\037\060\035\006\003\125
\004\003\014\026\114\165\170\124\162\165\163\164\040\107\154\157
\142\141\154\040\122\157\157\164\040\062\060\036\027\015\061\065
\060\063\060\065\061\063\062\061\065\067\132\027\015\063\065\060
\063\060\065\061\063\062\061\065\067\132\060\106\061\013\060\011
\006\003\125\004\006\023\002\114\125\061\026\060\024\006\003\125
\004\012\014\015\114\165\170\124\162\165\163\164\040\123\056\101
\056\061\037\060\035\006\003\125\004\003\014\026\114\165\170\124
\162\165\163\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\062\060\202\002\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\005\000\003\202\002\017\000\060\202\002\012\002\202
\002\001\000\327\205\227\277\021\230\351\360\142\203\114\074\207
\371\123\152\067\013\362\017\074\207\316\157\334\046\051\275\305
\211\272\311\203\075\367\356\312\133\306\155\111\163\264\311\106
\243\033\064\023\077\301\211\105\127\364\331\261\373\066\145\113
\373\010\342\110\161\021\310\156\073\236\235\337\211\145\067\246
\205\366\073\104\030\266\306\067\060\142\104\222\227\151\175\102
\060\044\344\015\014\211\153\143\336\305\341\337\116\251\024\154
\123\340\141\316\366\027\057\035\074\275\346\042\114\035\223\365
\020\304\241\166\354\152\336\305\154\337\226\264\126\100\102\300
\142\222\060\241\055\025\224\240\322\040\006\011\156\152\155\345
\353\267\276\324\360\361\025\174\213\346\116\272\023\314\113\047
\136\231\074\027\135\217\201\177\063\075\117\323\077\033\354\134
\077\360\074\114\165\156\362\246\325\235\332\055\007\143\002\306
\162\351\224\274\114\111\225\117\210\122\310\333\350\151\202\370
\314\064\133\042\360\206\247\211\275\110\012\155\146\201\155\310
\310\144\373\001\341\364\341\336\331\236\335\333\133\324\052\231
\046\025\033\036\114\222\051\202\236\325\222\201\222\101\160\031
\367\244\345\223\113\274\167\147\061\335\034\375\061\160\015\027
\231\014\371\014\071\031\052\027\265\060\161\125\325\017\256\130
\341\075\057\064\233\317\237\366\170\205\302\223\172\162\076\146
\217\234\026\021\140\217\236\211\157\147\276\340\107\132\073\014
\232\147\213\317\106\306\256\070\243\362\247\274\346\326\205\153
\063\044\160\042\113\313\010\233\273\310\370\002\051\035\276\040
\014\106\277\153\207\233\263\052\146\102\065\106\154\252\272\255
\371\230\173\351\120\125\024\061\277\261\332\055\355\200\255\150
\044\373\151\253\330\161\023\060\346\147\263\207\100\375\211\176
\362\103\321\021\337\057\145\057\144\316\137\024\271\261\277\061
\275\207\170\132\131\145\210\252\374\131\062\110\206\326\114\271
\051\113\225\323\166\363\167\045\155\102\034\070\203\115\375\243
\137\233\177\055\254\171\033\016\102\061\227\143\244\373\212\151
\325\042\015\064\220\060\056\250\264\340\155\266\224\254\274\213
\116\327\160\374\305\070\216\144\045\341\115\071\220\316\311\207
\204\130\161\002\003\001\000\001\243\201\250\060\201\245\060\017
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060
\102\006\003\125\035\040\004\073\060\071\060\067\006\007\053\201
\053\001\001\001\012\060\054\060\052\006\010\053\006\001\005\005
\007\002\001\026\036\150\164\164\160\163\072\057\057\162\145\160

\157\163\151\164\157\162\171\056\154\165\170\164\162\165\163\164
\056\154\165\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\006\060\037\006\003\125\035\043\004\030\060\026\200\024
\377\030\050\166\371\110\005\054\241\256\361\053\033\053\262\123
\370\113\174\263\060\035\006\003\125\035\016\004\026\004\024\377
\030\050\166\371\110\005\054\241\256\361\053\033\053\262\123\370
\113\174\263\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\003\202\002\001\000\152\031\024\355\156\171\301\054\207
\324\015\160\176\327\366\170\311\013\004\116\304\261\316\223\160
\376\260\124\300\062\315\231\060\144\027\277\017\345\342\063\375
\007\066\100\162\016\032\266\152\131\326\000\345\150\040\335\056
\162\015\037\152\144\061\040\204\175\111\246\132\067\353\105\311
\205\365\324\307\027\231\007\346\233\125\344\014\350\251\264\316
\214\133\265\021\134\317\212\016\015\326\254\167\201\376\062\234
\044\236\162\316\124\363\320\157\242\126\326\354\303\067\054\145
\130\276\127\000\032\362\065\372\353\173\061\135\302\301\022\075
\226\201\210\226\211\301\131\134\172\346\177\160\064\347\203\342
\261\341\341\270\130\357\324\225\344\140\234\360\226\227\162\214
\353\204\002\056\145\217\244\267\322\177\147\335\310\323\236\134
\252\251\244\240\045\024\006\233\354\117\176\055\013\177\035\165
\361\063\330\355\316\270\165\155\076\133\271\230\035\061\015\126
\330\103\017\060\221\262\004\153\335\126\276\225\200\125\147\276
\330\315\203\331\030\356\056\017\206\055\222\236\160\023\354\336
\121\311\103\170\002\245\115\310\371\137\304\221\130\106\026\167
\132\164\252\100\274\007\237\060\271\261\367\022\027\335\343\377
\044\100\035\172\152\321\117\030\012\252\220\035\353\100\036\337
\241\036\104\222\020\232\362\215\341\321\113\106\236\350\105\102
\227\352\105\231\363\354\146\325\002\372\362\246\112\044\252\336
\316\271\312\371\077\223\157\371\243\272\352\245\076\231\255\375
\377\173\231\365\145\356\360\131\050\147\327\220\225\244\023\204
\251\204\301\350\316\316\165\223\143\032\274\074\352\325\144\037
\055\052\022\071\306\303\132\062\355\107\221\026\016\274\070\301
\120\336\217\312\052\220\064\034\356\101\224\234\136\031\056\370
\105\111\231\164\221\260\004\157\343\004\132\261\253\052\253\376
\307\320\226\266\332\341\112\144\006\156\140\115\275\102\116\377
\170\332\044\312\033\264\327\226\071\154\256\361\016\252\247\175
\110\213\040\114\317\144\326\270\227\106\260\116\321\052\126\072
\240\223\275\257\200\044\340\012\176\347\312\325\312\350\205\125
\334\066\052\341\224\150\223\307\146\162\104\017\200\041\062\154
\045\307\043\200\203\012\353
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "LuxTrust Global Root 2"
Issuer: CN=LuxTrust Global Root 2,O=LuxTrust S.A.,C=LU

```
# Serial Number:0a:7e:a6:df:4b:44:9e:da:6a:24:85:9e:e6:b8:15:d3:16:7f:bb:b1
# Subject: CN=LuxTrust Global Root 2,O=LuxTrust S.A.,C=LU
# Not Valid Before: Thu Mar 05 13:21:57 2015
# Not Valid After: Mon Mar 05 13:21:57 2035
# Fingerprint (MD5): b2:e1:09:00:61:af:f7:f1:91:6f:c4:ad:8d:5e:3b:7c
# Fingerprint (SHA1): 1e:0e:56:19:0a:d1:8b:25:98:b2:04:44:ff:66:8a:04:17:99:5f:3f
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "LuxTrust Global Root 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\036\016\126\031\012\321\213\045\230\262\004\104\377\146\212\004
\027\231\137\077
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\262\341\011\000\141\257\367\361\221\157\304\255\215\136\073\174
END
CKA_ISSUER MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\114\125\061
\026\060\024\006\003\125\004\012\014\015\114\165\170\124\162\165
\163\164\040\123\056\101\056\061\037\060\035\006\003\125\004\003
\014\026\114\165\170\124\162\165\163\164\040\107\154\157\142\141
\154\040\122\157\157\164\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\012\176\246\337\113\104\236\332\152\044\205\236\346\270
\025\323\026\177\273\261
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "ACA ROOT"
# Issuer: CN=ACA ROOT,O=CONSEJO GENERAL DE LA ABOGACIA,2.5.4.5=Q2863006I,C=ES
# Serial Number:47:43:91:24:3f:ce:c3:0d:57:48:28:6b:ee:80:5d:ab
# Subject: CN=ACA ROOT,O=CONSEJO GENERAL DE LA ABOGACIA,2.5.4.5=Q2863006I,C=ES
# Not Valid Before: Fri May 27 10:58:51 2016
# Not Valid After: Mon May 27 10:58:51 2041
# Fingerprint (MD5): cc:49:10:f6:2f:f5:db:be:2f:8c:51:f3:8f:74:7c:12
# Fingerprint (SHA1): d4:96:59:2b:30:57:07:38:6c:c5:f3:cd:b2:59:ae:66:d7:66:1f:ca
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ACA ROOT"
```

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\022\060\020\006\003\125\004\005\023\011\121\062\070\066\063\060
\060\066\111\061\047\060\045\006\003\125\004\012\014\036\103\117
\116\123\105\112\117\040\107\105\116\105\122\101\114\040\104\105
\040\114\101\040\101\102\117\107\101\103\111\101\061\021\060\017
\006\003\125\004\003\014\010\101\103\101\040\122\117\117\124
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\022\060\020\006\003\125\004\005\023\011\121\062\070\066\063\060
\060\066\111\061\047\060\045\006\003\125\004\012\014\036\103\117
\116\123\105\112\117\040\107\105\116\105\122\101\114\040\104\105
\040\114\101\040\101\102\117\107\101\103\111\101\061\021\060\017
\006\003\125\004\003\014\010\101\103\101\040\122\117\117\124
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\107\103\221\044\077\316\303\015\127\110\050\153\356\200
\135\253
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\310\060\202\003\260\240\003\002\001\002\002\020\107
\103\221\044\077\316\303\015\127\110\050\153\356\200\135\253\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\135
\061\013\060\011\006\003\125\004\006\023\002\105\123\061\022\060
\020\006\003\125\004\005\023\011\121\062\070\066\063\060\060\066
\111\061\047\060\045\006\003\125\004\012\014\036\103\117\116\123
\105\112\117\040\107\105\116\105\122\101\114\040\104\105\040\114
\101\040\101\102\117\107\101\103\111\101\061\021\060\017\006\003
\125\004\003\014\010\101\103\101\040\122\117\117\124\060\036\027
\015\061\066\060\065\062\067\061\060\065\070\065\061\132\027\015
\064\061\060\065\062\067\061\060\065\070\065\061\132\060\135\061
\013\060\011\006\003\125\004\006\023\002\105\123\061\022\060\020
\006\003\125\004\005\023\011\121\062\070\066\063\060\060\066\111
\061\047\060\045\006\003\125\004\012\014\036\103\117\116\123\105
\112\117\040\107\105\116\105\122\101\114\040\104\105\040\114\101
\040\101\102\117\107\101\103\111\101\061\021\060\017\006\003\125
\004\003\014\010\101\103\101\040\122\117\117\124\060\202\002\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\002\017\000\060\202\002\012\002\202\002\001\000\271\053\136
\365\076\272\211\036\235\365\321\023\317\273\243\136\272\351\337
\071\162\144\230\122\207\151\245\266\336\341\277\224\105\276\305
\370\244\123\147\025\120\334\122\117\052\166\054\056\215\040\152
\214\346\135\271\331\150\276\221\033\272\151\003\030\255\030\116
\066\242\254\106\253\040\370\003\152\252\255\171\325\337\035\301
\356\105\157\041\164\371\115\261\261\075\220\073\074\062\200\355

\377\025\317\121\312\327\244\207\056\252\345\016\266\321\172\132
\307\271\370\121\273\331\224\335\076\306\206\116\012\376\073\211
\362\370\156\044\316\221\003\130\005\022\112\335\120\253\101\172
\316\355\251\037\021\123\036\245\023\333\141\360\365\252\200\336
\164\171\035\244\343\051\326\373\340\374\227\332\242\270\253\042
\076\145\260\041\304\345\305\020\104\207\262\343\340\052\202\056
\175\346\364\270\244\023\045\363\167\140\137\143\123\256\056\261
\235\212\153\166\173\072\161\275\222\201\066\260\234\202\361\367
\305\211\050\135\377\274\102\006\263\010\152\117\141\315\244\055
\220\323\071\270\167\377\310\307\243\171\273\003\271\221\003\001
\064\022\330\060\213\266\214\002\312\344\110\354\070\052\062\114
\155\312\166\050\132\206\012\272\324\040\216\257\240\137\040\055
\142\234\210\371\361\025\155\133\275\261\003\120\300\077\066\327
\256\077\121\321\312\343\130\146\104\346\243\233\167\056\061\372
\331\177\042\304\005\114\353\164\033\134\143\172\246\002\223\176
\103\016\166\024\017\115\157\062\225\210\200\222\122\227\024\365
\074\374\224\007\323\154\051\005\225\106\017\344\161\341\177\370
\155\024\022\202\222\265\363\123\076\231\021\227\107\166\112\011
\162\356\324\303\226\011\254\332\377\361\113\113\266\327\045\317
\036\114\227\046\013\064\273\266\224\361\054\144\161\137\211\362
\025\073\067\247\002\344\015\117\110\211\063\243\214\150\170\061
\121\147\012\031\333\264\342\164\057\075\172\363\167\000\237\161
\022\143\377\163\052\144\151\124\354\254\072\256\332\362\130\143
\064\176\370\074\136\300\102\072\245\333\263\250\324\132\301\116
\130\270\151\266\254\202\142\333\321\373\032\103\041\042\374\035
\365\234\117\116\073\345\215\377\166\132\043\136\133\002\003\001
\000\001\243\201\203\060\201\200\060\017\006\003\125\035\023\001
\001\377\004\005\060\003\001\001\377\060\016\006\003\125\035\017
\001\001\377\004\004\003\002\001\006\060\035\006\003\125\035\016
\004\026\004\024\032\125\344\025\061\342\061\233\021\324\210\161
\172\000\075\160\050\005\277\315\060\076\006\003\125\035\040\004
\067\060\065\060\063\006\004\125\035\040\000\060\053\060\051\006
\010\053\006\001\005\005\007\002\001\026\035\150\164\164\160\072
\057\057\167\167\167\056\141\143\141\142\157\147\141\143\151\141
\056\157\162\147\057\144\157\143\060\015\006\011\052\206\110\206
\367\015\001\001\013\005\000\003\202\002\001\000\173\060\312\125
\206\323\257\356\032\327\270\225\230\354\371\073\335\220\023\243
\234\222\105\240\222\211\151\241\161\221\274\161\205\207\240\055
\060\011\344\302\123\075\364\251\267\150\055\115\231\315\244\317
\236\073\220\235\232\012\051\015\052\102\301\075\133\153\100\202
\305\213\023\261\101\147\217\276\244\167\340\300\166\344\363\266
\051\126\054\357\161\117\302\144\361\332\264\013\312\320\071\137
\123\262\203\001\373\262\175\331\203\164\172\065\320\301\135\217
\233\367\136\347\122\337\356\252\067\223\253\331\075\175\036\361
\275\034\333\350\165\335\270\133\114\343\026\243\366\165\210\016
\217\074\303\013\154\333\140\131\344\005\253\050\106\367\146\151
\045\167\336\312\112\063\330\130\136\173\217\232\317\122\216\075
\155\375\321\262\275\076\171\127\206\036\104\034\007\115\364\302

\020\252\170\313\363\121\027\015\166\075\215\156\150\111\351\357
\007\111\321\270\026\311\171\235\314\256\013\005\107\172\375\230
\254\061\241\220\132\207\142\371\370\253\142\132\340\041\166\320
\150\102\350\034\276\162\201\360\306\147\175\176\164\074\325\125
\157\217\245\150\226\021\361\312\323\060\027\275\106\266\061\257
\160\351\244\204\067\127\272\011\074\056\331\013\023\126\007\076
\225\304\265\160\057\223\302\256\257\201\135\106\024\060\373\256
\305\363\232\367\101\172\261\336\113\026\331\105\165\107\002\174
\024\036\325\261\073\240\054\101\265\233\113\173\243\203\360\271
\314\316\036\224\267\136\056\043\006\225\221\034\070\107\034\355
\304\170\016\244\017\374\033\174\326\362\153\320\212\133\352\226
\363\061\324\136\152\304\224\270\060\237\225\341\007\211\270\210
\322\047\205\244\141\164\345\250\104\061\172\040\165\350\370\330
\353\263\117\252\377\123\077\226\355\352\273\374\121\100\246\053
\354\044\241\373\371\104\215\043\347\246\227\000\017\313\244\152
\277\120\240\312\161\242\154\256\157\337\331\203\202\146\334\123
\135\257\372\124\367\203\377\253\077\211\225\247\264\155\363\017
\012\015\110\063\057\201\051\307\113\005\304\306\127\164\204\303
\230\066\377\357\205\062\253\142\234\023\321\042\207\261\276\230
\333\164\232\217\352\302\326\223\171\105\040\303
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "ACA ROOT"
Issuer: CN=ACA ROOT,O=CONSEJO GENERAL DE LA ABOGACIA,2.5.4.5=Q2863006I,C=ES
Serial Number:47:43:91:24:3f:ce:c3:0d:57:48:28:6b:ee:80:5d:ab
Subject: CN=ACA ROOT,O=CONSEJO GENERAL DE LA ABOGACIA,2.5.4.5=Q2863006I,C=ES
Not Valid Before: Fri May 27 10:58:51 2016
Not Valid After: Mon May 27 10:58:51 2041
Fingerprint (MD5): cc:49:10:f6:2f:f5:db:be:2f:8c:51:f3:8f:74:7c:12
Fingerprint (SHA1): d4:96:59:2b:30:57:07:38:6c:c5:f3:cd:b2:59:ae:66:d7:66:1f:ca
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ACA ROOT"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\324\226\131\053\060\127\007\070\154\305\363\315\262\131\256\146
\327\146\037\312
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\314\111\020\366\057\365\333\276\057\214\121\363\217\164\174\022
END
CKA_ISSUER MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\105\123\061

\022\060\020\006\003\125\004\005\023\011\121\062\070\066\063\060
\060\066\111\061\047\060\045\006\003\125\004\012\014\036\103\117
\116\123\105\112\117\040\107\105\116\105\122\101\114\040\104\105
\040\114\101\040\101\102\117\107\101\103\111\101\061\021\060\017
\006\003\125\004\003\014\010\101\103\101\040\122\117\117\124
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\107\103\221\044\077\316\303\015\127\110\050\153\356\200
\135\253
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Security Communication ECC RootCA1"
Issuer: CN=Security Communication ECC RootCA1,O=SECOM Trust Systems CO.\,LTD.,C=JP
Serial Number:d6:5d:9b:b3:78:81:2e:eb
Subject: CN=Security Communication ECC RootCA1,O=SECOM Trust Systems CO.\,LTD.,C=JP
Not Valid Before: Thu Jun 16 05:15:28 2016
Not Valid After: Mon Jan 18 05:15:28 2038
Fingerprint (MD5): 7e:43:b0:92:68:ec:05:43:4c:98:ab:5d:35:2e:7e:86
Fingerprint (SHA1): b8:0e:26:a9:bf:d2:b2:3b:c0:ef:46:c9:ba:c7:bb:f6:1d:0d:41:41
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication ECC RootCA1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\053\060\051\006\003\125\004\003\023
\042\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\105\103\103\040\122\157\157\164
\103\101\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\053\060\051\006\003\125\004\003\023
\042\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\105\103\103\040\122\157\157\164
\103\101\061

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\326\135\233\263\170\201\056\353
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\070\060\202\001\276\240\003\002\001\002\002\011\000
\326\135\233\263\170\201\056\353\060\012\006\010\052\206\110\316
\075\004\003\003\060\141\061\013\060\011\006\003\125\004\006\023
\002\112\120\061\045\060\043\006\003\125\004\012\023\034\123\105
\103\117\115\040\124\162\165\163\164\040\123\171\163\164\145\155
\163\040\103\117\056\054\114\124\104\056\061\053\060\051\006\003
\125\004\003\023\042\123\145\143\165\162\151\164\171\040\103\157
\155\155\165\156\151\143\141\164\151\157\156\040\105\103\103\040
\122\157\157\164\103\101\061\060\036\027\015\061\066\060\066\061
\066\060\065\061\065\062\070\132\027\015\063\070\060\061\061\070
\060\065\061\065\062\070\132\060\141\061\013\060\011\006\003\125
\004\006\023\002\112\120\061\045\060\043\006\003\125\004\012\023
\034\123\105\103\117\115\040\124\162\165\163\164\040\123\171\163
\164\145\155\163\040\103\117\056\054\114\124\104\056\061\053\060
\051\006\003\125\004\003\023\042\123\145\143\165\162\151\164\171
\040\103\157\155\155\165\156\151\143\141\164\151\157\156\040\105
\103\103\040\122\157\157\164\103\101\061\060\166\060\020\006\007
\052\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142
\000\004\244\245\157\140\003\003\303\275\061\364\323\027\234\053
\204\165\254\345\375\075\127\156\327\143\277\346\004\211\222\216
\201\234\343\351\107\156\312\220\022\310\023\340\247\235\367\145
\164\037\154\020\262\350\344\351\357\155\205\062\231\104\261\136
\375\314\166\020\330\133\275\242\306\371\326\102\344\127\166\334
\220\302\065\251\113\210\074\022\107\155\134\377\111\117\032\112
\120\261\243\102\060\100\060\035\006\003\125\035\016\004\026\004
\024\206\034\347\376\055\245\112\213\010\376\050\021\372\276\243
\146\370\140\131\057\060\016\006\003\125\035\017\001\001\377\004
\004\003\002\001\006\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\012\006\010\052\206\110\316\075\004
\003\003\003\150\000\060\145\002\060\025\135\102\075\374\266\356
\367\073\261\066\350\236\366\304\106\050\111\063\320\130\103\052
\143\051\314\115\261\264\172\242\271\015\070\245\135\110\052\375
\313\262\163\135\243\210\010\307\014\002\061\000\300\253\055\016
\155\355\030\242\333\123\351\045\333\125\010\340\120\314\337\104
\141\026\202\253\111\260\262\201\354\163\207\170\264\114\262\142
\033\022\372\026\115\045\113\143\275\036\067\331
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Security Communication ECC RootCA1"

```
# Issuer: CN=Security Communication ECC RootCA1,O=SECOM Trust Systems CO.\,LTD.,C=JP
# Serial Number:d6:5d:9b:b3:78:81:2e:eb
# Subject: CN=Security Communication ECC RootCA1,O=SECOM Trust Systems CO.\,LTD.,C=JP
# Not Valid Before: Thu Jun 16 05:15:28 2016
# Not Valid After: Mon Jan 18 05:15:28 2038
# Fingerprint (MD5): 7e:43:b0:92:68:ec:05:43:4c:98:ab:5d:35:2e:7e:86
# Fingerprint (SHA1): b8:0e:26:a9:bf:d2:b2:3b:c0:ef:46:c9:ba:c7:bb:f6:1d:0d:41:41
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication ECC RootCA1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\270\016\046\251\277\322\262\073\300\357\106\311\272\307\273\366
\035\015\101\101
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\176\103\260\222\150\354\005\103\114\230\253\135\065\056\176\206
END
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\053\060\051\006\003\125\004\003\023
\042\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\105\103\103\040\122\157\157\164
\103\101\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\326\135\233\263\170\201\056\353
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Security Communication RootCA3"
# Issuer: CN=Security Communication RootCA3,O=SECOM Trust Systems CO.\,LTD.,C=JP
# Serial Number:e1:7c:37:40:fd:1b:fe:67
# Subject: CN=Security Communication RootCA3,O=SECOM Trust Systems CO.\,LTD.,C=JP
# Not Valid Before: Thu Jun 16 06:17:16 2016
# Not Valid After: Mon Jan 18 06:17:16 2038
# Fingerprint (MD5): 1c:9a:16:ff:9e:5c:e0:4d:8a:14:01:f4:35:5d:29:26
# Fingerprint (SHA1): c3:03:c8:22:74:92:e5:61:a2:9c:5f:79:91:2b:1e:44:13:91:30:3a
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
```

CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication RootCA3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\047\060\045\006\003\125\004\003\023
\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\122\157\157\164\103\101\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\047\060\045\006\003\125\004\003\023
\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\122\157\157\164\103\101\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\341\174\067\100\375\033\376\147
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\177\060\202\003\147\240\003\002\001\002\002\011\000
\341\174\067\100\375\033\376\147\060\015\006\011\052\206\110\206
\367\015\001\001\014\005\000\060\135\061\013\060\011\006\003\125
\004\006\023\002\112\120\061\045\060\043\006\003\125\004\012\023
\034\123\105\103\117\115\040\124\162\165\163\164\040\123\171\163
\164\145\155\163\040\103\117\056\054\114\124\104\056\061\047\060
\045\006\003\125\004\003\023\036\123\145\143\165\162\151\164\171
\040\103\157\155\155\165\156\151\143\141\164\151\157\156\040\122
\157\157\164\103\101\063\060\036\027\015\061\066\060\066\061\066
\060\066\061\067\061\066\132\027\015\063\070\060\061\061\070\060
\066\061\067\061\066\132\060\135\061\013\060\011\006\003\125\004
\006\023\002\112\120\061\045\060\043\006\003\125\004\012\023\034
\123\105\103\117\115\040\124\162\165\163\164\040\123\171\163\164
\145\155\163\040\103\117\056\054\114\124\104\056\061\047\060\045
\006\003\125\004\003\023\036\123\145\143\165\162\151\164\171\040
\103\157\155\155\165\156\151\143\141\164\151\157\156\040\122\157
\157\164\103\101\063\060\202\002\042\060\015\006\011\052\206\110
\206\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002
\012\002\202\002\001\000\343\311\162\111\367\060\336\011\174\251
\100\201\130\323\264\072\335\272\141\017\223\120\156\151\074\065
\302\356\133\163\220\033\147\114\041\354\137\065\273\071\076\053
\012\140\357\273\155\053\206\373\161\242\310\254\344\126\224\371
\311\257\261\162\324\040\254\164\322\270\025\255\121\376\205\164
\241\271\020\376\005\200\371\122\223\263\100\075\165\020\254\300

\226\267\247\176\166\274\343\033\122\031\316\021\037\013\004\064
\365\330\365\151\074\167\363\144\364\015\252\205\336\340\011\120
\004\027\226\204\267\310\212\274\115\162\374\034\273\317\363\006
\115\371\237\144\367\176\246\146\206\065\161\310\021\200\114\301
\161\100\130\036\276\240\163\366\374\076\120\341\340\057\046\075
\176\134\043\265\171\160\336\372\340\321\245\326\014\101\161\173
\367\352\214\034\210\307\354\213\365\321\057\125\226\106\174\132
\073\130\073\373\272\330\055\265\045\332\172\116\317\104\256\041
\246\236\230\312\040\156\174\273\210\205\133\373\300\020\142\273
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\267\234\161\067\031\205\171\277\201\260\307\023\016\166\161\076
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\210\011\141\213\357\044\116\321\131\077\132\324\075\311\223\074
\053\144\365\201\015\026\226\367\222\303\376\061\157\350\052\062
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\014\344\276\371\350\020\244\023\222\270\034\340\333\147\035\123
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\330\320\234\235\145\313\320\053\047\061\003\036\066\341\075\166
\165\014\377\105\046\271\335\121\274\043\307\137\330\330\207\020
\100\022\015\075\070\067\347\104\074\030\300\123\011\144\217\377
\325\232\246\174\160\056\163\125\041\350\337\377\203\271\035\076
\062\036\326\246\175\054\361\146\351\134\035\247\243\316\136\045
\062\053\343\225\254\052\007\316\264\050\170\206\074\055\246\235
\115\322\164\060\335\144\121\025\333\203\203\121\327\257\375\063
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END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Security Communication RootCA3"
Issuer: CN=Security Communication RootCA3,O=SECOM Trust Systems CO.\,LTD.,C=JP
Serial Number:e1:7c:37:40:fd:1b:fe:67
Subject: CN=Security Communication RootCA3,O=SECOM Trust Systems CO.\,LTD.,C=JP
Not Valid Before: Thu Jun 16 06:17:16 2016
Not Valid After: Mon Jan 18 06:17:16 2038
Fingerprint (MD5): 1c:9a:16:ff:9e:5c:e0:4d:8a:14:01:f4:35:5d:29:26
Fingerprint (SHA1): c3:03:c8:22:74:92:e5:61:a2:9c:5f:79:91:2b:1e:44:13:91:30:3a
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication RootCA3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\303\003\310\042\164\222\345\141\242\234\137\171\221\053\036\104
\023\221\060\072
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\034\232\026\377\236\134\340\115\212\024\001\364\065\135\051\046
END
CKA_ISSUER MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\047\060\045\006\003\125\004\003\023

\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\122\157\157\164\103\101\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\341\174\067\100\375\033\376\147
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "CHAMBERS OF COMMERCE ROOT - 2016"
Issuer: CN=CHAMBERS OF COMMERCE ROOT - 2016,O=AC CAMERFIRMA S.A.,2.5.4.97=VATES-A82743287,2.5.4.5=A82743287,OU=CHAMBERS OF COMMERCE ROOT - 2016,OU=see current address at www.camerfirma.com/address,L=MADRID,ST=MADRID,C=ES
Serial Number:34:9a:2d:a1:82:06:b2:b3
Subject: CN=CHAMBERS OF COMMERCE ROOT - 2016,O=AC CAMERFIRMA S.A.,2.5.4.97=VATES-A82743287,2.5.4.5=A82743287,OU=CHAMBERS OF COMMERCE ROOT - 2016,OU=see current address at www.camerfirma.com/address,L=MADRID,ST=MADRID,C=ES
Not Valid Before: Thu Apr 14 07:35:48 2016
Not Valid After: Sun Apr 08 07:35:48 2040
Fingerprint (MD5): d9:84:45:a4:8b:62:ec:c1:fc:51:54:8a:d1:58:8d:e8
Fingerprint (SHA1): 2d:e1:6a:56:77:ba:ca:39:e1:d6:8c:30:dc:b1:4a:be:22:a6:17:9b
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CHAMBERS OF COMMERCE ROOT - 2016"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\202\001\014\061\013\060\011\006\003\125\004\006\023\002\105
\123\061\017\060\015\006\003\125\004\010\014\006\115\101\104\122
\111\104\061\017\060\015\006\003\125\004\007\014\006\115\101\104
\122\111\104\061\072\060\070\006\003\125\004\013\014\061\163\145
\145\040\143\165\162\162\145\156\164\040\141\144\144\162\145\163
\163\040\141\164\040\167\167\167\056\143\141\155\145\162\146\151
\162\155\141\056\143\157\155\057\141\144\144\162\145\163\163\061
\051\060\047\006\003\125\004\013\014\040\103\110\101\115\102\105
\122\123\040\117\106\040\103\117\115\115\105\122\103\105\040\122
\117\117\124\040\055\040\062\060\061\066\061\022\060\020\006\003
\125\004\005\023\011\101\070\062\067\064\063\062\070\067\061\030
\060\026\006\003\125\004\141\014\017\126\101\124\105\123\055\101
\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125\004
\012\014\022\101\103\040\103\101\115\105\122\106\111\122\115\101
\040\123\056\101\056\061\051\060\047\006\003\125\004\003\014\040
\103\110\101\115\102\105\122\123\040\117\106\040\103\117\115\115
\105\122\103\105\040\122\117\117\124\040\055\040\062\060\061\066

END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\202\001\014\061\013\060\011\006\003\125\004\006\023\002\105
\123\061\017\060\015\006\003\125\004\010\014\006\115\101\104\122
\111\104\061\017\060\015\006\003\125\004\007\014\006\115\101\104
\122\111\104\061\072\060\070\006\003\125\004\013\014\061\163\145
\145\040\143\165\162\162\145\156\164\040\141\144\144\162\145\163
\163\040\141\164\040\167\167\167\056\143\141\155\145\162\146\151
\162\155\141\056\143\157\155\057\141\144\144\162\145\163\163\061
\051\060\047\006\003\125\004\013\014\040\103\110\101\115\102\105
\122\123\040\117\106\040\103\117\115\115\105\122\103\105\040\122
\117\117\124\040\055\040\062\060\061\066\061\022\060\020\006\003
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\060\026\006\003\125\004\141\014\017\126\101\124\105\123\055\101
\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125\004
\012\014\022\101\103\040\103\101\115\105\122\106\111\122\115\101
\040\123\056\101\056\061\051\060\047\006\003\125\004\003\014\040
\103\110\101\115\102\105\122\123\040\117\106\040\103\117\115\115
\105\122\103\105\040\122\117\117\124\040\055\040\062\060\061\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\064\232\055\241\202\006\262\263
END
CKA_VALUE MULTILINE_OCTAL
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\015\001\001\013\005\000\060\202\001\014\061\013\060\011\006\003
\125\004\006\023\002\105\123\061\017\060\015\006\003\125\004\010
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\007\014\006\115\101\104\122\111\104\061\072\060\070\006\003\125
\004\013\014\061\163\145\145\040\143\165\162\162\145\156\164\040
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\141\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144
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\063\062\070\067\061\030\060\026\006\003\125\004\141\014\017\126
\101\124\105\123\055\101\070\062\067\064\063\062\070\067\061\033
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\122\106\111\122\115\101\040\123\056\101\056\061\051\060\047\006
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\060\067\063\065\064\070\132\027\015\064\060\060\064\060\070\060
\067\063\065\064\070\132\060\202\001\014\061\013\060\011\006\003
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\141\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144
\144\162\145\163\163\061\051\060\047\006\003\125\004\013\014\040
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\063\062\070\067\061\030\060\026\006\003\125\004\141\014\017\126
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\170\062\010\040\264\102\244\102\153\325\045\234\262\047\353\301
\016\107\104\011\341\053\017\320\043\066\156\034\271\272\116\254
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\321\327\361\121\066\331\222\357\242\170\121\005\130\275\122\314
\012\136\157\257\332\320\345\014\333\154\301\043\357\071\061\167
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\104\172\244\041\354\107\077\250\326\025\245\354\001\251\310\160
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\076\267\051\206\215\237\332\062\171\062\334\333\250\345\011\377
\357\126\052\376\223\261\216\052\023\355\255\242\053\153\057\004
\336\315\057\222\222\326\076\140\265\170\001\225\007\010\251\154
\343\034\332\373\345\233\043\126\040\133\351\320\134\306\112\044
\073\274\343\266\042\026\052\204\222\377\250\376\227\277\243\235
\333\141\136\356\031\052\054\327\353\015\166\126\070\165\176\111
\000\223\127\311\374\043\132\374\364\361\337\052\235\260\214\151
\364\020\243\125\235\160\074\042\377\007\326\053\266\231\300\227
\320\364\052\240
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "CHAMBERS OF COMMERCE ROOT - 2016"
Issuer: CN=CHAMBERS OF COMMERCE ROOT - 2016,O=AC CAMERFIRMA S.A.,2.5.4.97=VATES-

A82743287,2.5.4.5=A82743287,OU=CHAMBERS OF COMMERCE ROOT - 2016,OU=see current address at www.camerfirma.com/address,L=MADRID,ST=MADRID,C=ES
Serial Number:34:9a:2d:a1:82:06:b2:b3
Subject: CN=CHAMBERS OF COMMERCE ROOT - 2016,O=AC CAMERFIRMA S.A.,2.5.4.97=VATES-A82743287,2.5.4.5=A82743287,OU=CHAMBERS OF COMMERCE ROOT - 2016,OU=see current address at www.camerfirma.com/address,L=MADRID,ST=MADRID,C=ES
Not Valid Before: Thu Apr 14 07:35:48 2016
Not Valid After: Sun Apr 08 07:35:48 2040
Fingerprint (MD5): d9:84:45:a4:8b:62:ec:c1:fc:51:54:8a:d1:58:8d:e8
Fingerprint (SHA1): 2d:e1:6a:56:77:ba:ca:39:e1:d6:8c:30:dc:b1:4a:be:22:a6:17:9b
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CHAMBERS OF COMMERCE ROOT - 2016"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\055\341\152\126\167\272\312\071\341\326\214\060\334\261\112\276
\042\246\027\233
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\331\204\105\244\213\142\354\301\374\121\124\212\321\130\215\350
END
CKA_ISSUER MULTILINE_OCTAL
\060\202\001\014\061\013\060\011\006\003\125\004\006\023\002\105
\123\061\017\060\015\006\003\125\004\010\014\006\115\101\104\122
\111\104\061\017\060\015\006\003\125\004\007\014\006\115\101\104
\122\111\104\061\072\060\070\006\003\125\004\013\014\061\163\145
\145\040\143\165\162\162\145\156\164\040\141\144\144\162\145\163
\163\040\141\164\040\167\167\167\056\143\141\155\145\162\146\151
\162\155\141\056\143\157\155\057\141\144\144\162\145\163\163\061
\051\060\047\006\003\125\004\013\014\040\103\110\101\115\102\105
\122\123\040\117\106\040\103\117\115\115\105\122\103\105\040\122
\117\117\124\040\055\040\062\060\061\066\061\022\060\020\006\003
\125\004\005\023\011\101\070\062\067\064\063\062\070\067\061\030
\060\026\006\003\125\004\141\014\017\126\101\124\105\123\055\101
\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125\004
\012\014\022\101\103\040\103\101\115\105\122\106\111\122\115\101
\040\123\056\101\056\061\051\060\047\006\003\125\004\003\014\040
\103\110\101\115\102\105\122\123\040\117\106\040\103\117\115\115
\105\122\103\105\040\122\117\117\124\040\055\040\062\060\061\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\064\232\055\241\202\006\262\263
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Network Solutions RSA Certificate Authority"
Issuer: CN=Network Solutions RSA Certificate Authority,O=Network Solutions
L.L.C.,L=Jacksonville,ST=FL,C=US
Serial Number:4c:03:4b:ac:67:18:4c:7f:af:44:08:4d:82:96:c7:b2
Subject: CN=Network Solutions RSA Certificate Authority,O=Network Solutions
L.L.C.,L=Jacksonville,ST=FL,C=US
Not Valid Before: Wed Nov 18 00:00:00 2015
Not Valid After: Mon Jan 18 23:59:59 2038
Fingerprint (MD5): 5a:2f:58:bc:83:2c:2d:99:b4:9b:78:24:d4:8f:f9:67
Fingerprint (SHA1): 8e:92:8c:0f:c2:7b:b7:ab:a3:4e:6b:c0:ca:12:50:cb:57:b6:0f:84
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Network Solutions RSA Certificate Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\212\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\013\060\011\006\003\125\004\010\023\002\106\114\061\025\060
\023\006\003\125\004\007\023\014\112\141\143\153\163\157\156\166
\151\154\154\145\061\041\060\037\006\003\125\004\012\023\030\116
\145\164\167\157\162\153\040\123\157\154\165\164\151\157\156\163
\040\114\056\114\056\103\056\061\064\060\062\006\003\125\004\003
\023\053\116\145\164\167\157\162\153\040\123\157\154\165\164\151
\157\156\163\040\122\123\101\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\212\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\013\060\011\006\003\125\004\010\023\002\106\114\061\025\060
\023\006\003\125\004\007\023\014\112\141\143\153\163\157\156\166
\151\154\154\145\061\041\060\037\006\003\125\004\012\023\030\116
\145\164\167\157\162\153\040\123\157\154\165\164\151\157\156\163
\040\114\056\114\056\103\056\061\064\060\062\006\003\125\004\003
\023\053\116\145\164\167\157\162\153\040\123\157\154\165\164\151
\157\156\163\040\122\123\101\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\114\003\113\254\147\030\114\177\257\104\010\115\202\226
\307\262
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\342\060\202\003\312\240\003\002\001\002\002\020\114
\003\113\254\147\030\114\177\257\104\010\115\202\226\307\262\060

\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\201
\212\061\013\060\011\006\003\125\004\006\023\002\125\123\061\013
\060\011\006\003\125\004\010\023\002\106\114\061\025\060\023\006
\003\125\004\007\023\014\112\141\143\153\163\157\156\166\151\154
\154\145\061\041\060\037\006\003\125\004\012\023\030\116\145\164
\167\157\162\153\040\123\157\154\165\164\151\157\156\163\040\114
\056\114\056\103\056\061\064\060\062\006\003\125\004\003\023\053
\116\145\164\167\157\162\153\040\123\157\154\165\164\151\157\156
\163\040\122\123\101\040\103\145\162\164\151\146\151\143\141\164
\145\040\101\165\164\150\157\162\151\164\171\060\036\027\015\061
\065\061\061\061\070\060\060\060\060\060\060\132\027\015\063\070
\060\061\061\070\062\063\065\071\065\071\132\060\201\212\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\013\060\011\006
\003\125\004\010\023\002\106\114\061\025\060\023\006\003\125\004
\007\023\014\112\141\143\153\163\157\156\166\151\154\154\145\061
\041\060\037\006\003\125\004\012\023\030\116\145\164\167\157\162
\153\040\123\157\154\165\164\151\157\156\163\040\114\056\114\056
\103\056\061\064\060\062\006\003\125\004\003\023\053\116\145\164
\167\157\162\153\040\123\157\154\165\164\151\157\156\163\040\122
\123\101\040\103\145\162\164\151\146\151\143\141\164\145\040\101
\165\164\150\157\162\151\164\171\060\202\002\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000
\060\202\002\012\002\202\002\001\000\204\337\250\246\243\214\013
\170\036\310\115\031\225\335\051\220\222\040\065\220\052\224\215
\202\063\055\160\022\130\245\010\212\236\301\010\363\223\326\150
\300\057\024\276\171\244\374\175\314\325\274\076\217\355\234\112
\002\141\131\075\252\303\157\164\000\322\370\032\064\324\124\236
\152\164\107\232\057\340\322\367\017\367\303\335\077\245\277\301
\372\175\102\151\140\000\200\354\074\346\273\201\067\244\036\006
\024\075\127\217\220\244\065\112\064\163\207\266\032\303\135\220
\357\006\115\160\166\066\074\202\211\355\317\144\031\203\045\103
\116\034\342\361\152\122\206\376\121\344\176\070\337\025\215\114
\154\140\101\112\117\260\100\125\106\071\165\311\201\071\000\163
\212\142\352\017\145\267\217\117\227\100\316\317\356\301\152\050
\240\161\251\231\047\321\075\311\065\163\172\200\231\370\175\206
\271\235\171\072\355\323\052\372\176\246\270\377\127\052\163\262
\246\277\332\211\272\006\033\332\145\240\346\276\140\224\210\366
\337\146\341\047\152\033\376\320\136\251\215\040\213\012\304\037
\176\210\101\057\262\301\320\363\266\150\355\310\073\361\357\252
\007\336\176\327\042\340\201\366\245\352\173\026\364\102\124\235
\226\176\366\142\026\123\315\375\012\253\262\102\241\116\052\210
\102\165\203\275\214\345\115\172\347\035\343\114\270\336\343\253
\140\070\055\147\051\376\344\137\256\302\250\350\277\256\154\371
\353\263\122\361\177\351\354\302\057\331\235\312\027\236\102\372
\073\130\301\076\210\142\117\137\223\301\227\155\146\217\034\042
\363\232\301\364\355\271\153\032\176\066\204\310\061\270\360\136
\053\176\225\344\171\317\165\114\302\330\004\277\070\216\050\263
\335\133\266\330\117\043\156\222\350\067\225\256\203\256\326\374

\071\052\106\006\037\361\204\165\041\326\270\116\246\052\227\130
\145\365\232\030\001\327\365\303\177\051\311\020\356\163\112\103
\166\173\321\246\060\121\377\326\053\035\036\142\204\276\371\276
\151\227\231\307\015\347\174\044\120\165\027\375\244\040\347\065
\150\003\140\224\247\331\015\306\032\054\345\342\116\325\314\016
\300\172\060\126\357\140\222\276\331\056\365\307\360\350\105\317
\332\206\256\357\330\167\251\022\047\002\003\001\000\001\243\102
\060\100\060\035\006\003\125\035\016\004\026\004\024\017\361\112
\112\165\164\005\021\014\035\330\133\231\353\277\376\252\175\136
\327\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001
\206\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\015\006\011\052\206\110\206\367\015\001\001\014\005
\000\003\202\002\001\000\075\313\322\106\170\365\366\072\027\350
\303\173\144\321\305\273\220\170\215\365\117\271\304\055\227\373
\013\346\305\270\361\266\352\350\130\113\064\255\167\171\054\065
\037\162\175\002\076\356\265\320\026\212\006\067\226\265\357\103
\320\011\020\054\227\146\307\201\037\036\346\047\305\202\221\130
\136\363\310\133\101\150\200\203\221\271\234\201\370\047\372\105
\337\356\171\362\134\155\160\002\124\356\300\123\330\103\353\005
\172\314\364\121\335\251\324\042\175\152\073\362\376\210\324\122
\111\072\205\222\144\123\370\152\123\140\210\217\362\133\324\256
\053\122\340\352\377\124\176\241\344\357\206\033\247\203\013\006
\146\136\060\200\214\125\240\107\063\377\153\036\104\110\113\141
\252\036\076\350\114\144\307\330\155\175\016\256\074\074\102\075
\312\044\032\160\361\141\024\234\072\030\325\360\006\051\221\042
\262\072\072\241\026\124\143\032\371\063\225\104\237\044\243\041
\144\004\010\342\233\325\336\010\122\034\142\034\123\026\107\065
\102\046\307\247\014\375\363\133\023\167\002\214\134\342\026\360
\030\037\331\175\365\337\002\044\210\172\363\136\377\027\016\263
\142\147\241\253\261\027\216\075\072\106\260\365\106\214\253\204
\330\365\016\241\040\353\302\360\231\164\075\216\263\003\330\044
\305\154\353\153\014\123\277\140\151\335\214\050\305\157\317\273
\322\201\167\053\306\174\261\304\112\154\025\020\067\051\135\256
\370\261\021\005\304\024\215\354\023\243\104\375\115\213\150\270
\301\377\235\325\067\056\110\370\050\174\334\371\163\123\331\266
\001\165\102\172\277\013\337\121\120\270\123\262\341\356\164\220
\313\274\252\320\161\203\242\253\116\311\020\266\075\034\357\100
\327\117\103\220\063\271\001\226\124\135\052\325\006\133\222\206
\270\006\020\201\006\310\221\333\051\040\262\123\275\363\113\133
\114\333\151\037\211\156\124\077\327\211\135\347\265\315\014\276
\077\175\170\070\001\322\266\147\246\317\130\110\224\032\105\375
\220\163\111\312\265\103\240\041\142\215\111\004\046\252\370\037
\056\077\362\056\241\362\253\364\006\036\260\055\304\301\160\102
\075\375\303\121\111\210\000\016\312\202\015\233\171\002\342\300
\056\223\337\344\362\361
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Network Solutions RSA Certificate Authority"
Issuer: CN=Network Solutions RSA Certificate Authority,O=Network Solutions
L.L.C.,L=Jacksonville,ST=FL,C=US
Serial Number:4c:03:4b:ac:67:18:4c:7f:af:44:08:4d:82:96:c7:b2
Subject: CN=Network Solutions RSA Certificate Authority,O=Network Solutions
L.L.C.,L=Jacksonville,ST=FL,C=US
Not Valid Before: Wed Nov 18 00:00:00 2015
Not Valid After: Mon Jan 18 23:59:59 2038
Fingerprint (MD5): 5a:2f:58:bc:83:2c:2d:99:b4:9b:78:24:d4:8f:f9:67
Fingerprint (SHA1): 8e:92:8c:0f:c2:7b:b7:ab:a3:4e:6b:c0:ca:12:50:cb:57:b6:0f:84
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Network Solutions RSA Certificate Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\216\222\214\017\302\173\267\253\243\116\153\300\312\022\120\313
\127\266\017\204
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\132\057\130\274\203\054\055\231\264\233\170\044\324\217\371\147
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\212\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\013\060\011\006\003\125\004\010\023\002\106\114\061\025\060
\023\006\003\125\004\007\023\014\112\141\143\153\163\157\156\166
\151\154\154\145\061\041\060\037\006\003\125\004\012\023\030\116
\145\164\167\157\162\153\040\123\157\154\165\164\151\157\156\163
\040\114\056\114\056\103\056\061\064\060\062\006\003\125\004\003
\023\053\116\145\164\167\157\162\153\040\123\157\154\165\164\151
\157\156\163\040\122\123\101\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\114\003\113\254\147\030\114\177\257\104\010\115\202\226
\307\262
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Network Solutions ECC Certificate Authority"
Issuer: CN=Network Solutions ECC Certificate Authority,O=Network Solutions

L.L.C.,L=Jacksonville,ST=FL,C=US
Serial Number:79:38:4b:b4:19:1a:8d:74:22:cc:ff:85:32:f2:e4:ba
Subject: CN=Network Solutions ECC Certificate Authority,O=Network Solutions
L.L.C.,L=Jacksonville,ST=FL,C=US
Not Valid Before: Wed Nov 18 00:00:00 2015
Not Valid After: Mon Jan 18 23:59:59 2038
Fingerprint (MD5): a5:a8:cc:e3:1c:41:11:8c:6a:8c:38:bd:a2:47:fe:b2
Fingerprint (SHA1): 80:f9:5b:74:1c:38:39:94:95:c3:4f:20:c2:3e:73:36:31:4d:3c:6b
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Network Solutions ECC Certificate Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\212\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\013\060\011\006\003\125\004\010\023\002\106\114\061\025\060
\023\006\003\125\004\007\023\014\112\141\143\153\163\157\156\166
\151\154\154\145\061\041\060\037\006\003\125\004\012\023\030\116
\145\164\167\157\162\153\040\123\157\154\165\164\151\157\156\163
\040\114\056\114\056\103\056\061\064\060\062\006\003\125\004\003
\023\053\116\145\164\167\157\162\153\040\123\157\154\165\164\151
\157\156\163\040\105\103\103\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\212\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\013\060\011\006\003\125\004\010\023\002\106\114\061\025\060
\023\006\003\125\004\007\023\014\112\141\143\153\163\157\156\166
\151\154\154\145\061\041\060\037\006\003\125\004\012\023\030\116
\145\164\167\157\162\153\040\123\157\154\165\164\151\157\156\163
\040\114\056\114\056\103\056\061\064\060\062\006\003\125\004\003
\023\053\116\145\164\167\157\162\153\040\123\157\154\165\164\151
\157\156\163\040\105\103\103\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\171\070\113\264\031\032\215\164\042\314\377\205\062\362
\344\272
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\224\060\202\002\031\240\003\002\001\002\002\020\171
\070\113\264\031\032\215\164\042\314\377\205\062\362\344\272\060
\012\006\010\052\206\110\316\075\004\003\003\060\201\212\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\013\060\011\006
\003\125\004\010\023\002\106\114\061\025\060\023\006\003\125\004
\007\023\014\112\141\143\153\163\157\156\166\151\154\154\145\061

\041\060\037\006\003\125\004\012\023\030\116\145\164\167\157\162
\153\040\123\157\154\165\164\151\157\156\163\040\114\056\114\056
\103\056\061\064\060\062\006\003\125\004\003\023\053\116\145\164
\167\157\162\153\040\123\157\154\165\164\151\157\156\163\040\105
\103\103\040\103\145\162\164\151\146\151\143\141\164\145\040\101
\165\164\150\157\162\151\164\171\060\036\027\015\061\065\061\061
\061\070\060\060\060\060\060\060\132\027\015\063\070\060\061\061
\070\062\063\065\071\065\071\132\060\201\212\061\013\060\011\006
\003\125\004\006\023\002\125\123\061\013\060\011\006\003\125\004
\010\023\002\106\114\061\025\060\023\006\003\125\004\007\023\014
\112\141\143\153\163\157\156\166\151\154\154\145\061\041\060\037
\006\003\125\004\012\023\030\116\145\164\167\157\162\153\040\123
\157\154\165\164\151\157\156\163\040\114\056\114\056\103\056\061
\064\060\062\006\003\125\004\003\023\053\116\145\164\167\157\162
\153\040\123\157\154\165\164\151\157\156\163\040\105\103\103\040
\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150
\157\162\151\164\171\060\166\060\020\006\007\052\206\110\316\075
\002\001\006\005\053\201\004\000\042\003\142\000\004\024\341\003
\013\145\157\255\131\326\036\356\311\277\264\114\305\306\134\057
\060\307\237\122\333\150\141\300\151\020\342\222\172\032\303\277
\222\250\211\071\212\373\347\240\273\161\244\240\303\337\167\326
\224\067\023\137\176\123\135\120\272\343\114\010\307\145\342\101
\260\346\131\362\234\370\300\262\167\301\012\221\046\167\362\151
\266\273\320\101\074\052\210\032\224\221\026\306\076\243\102\060
\100\060\035\006\003\125\035\016\004\026\004\024\233\173\353\310
\377\203\362\122\230\107\060\012\126\370\070\276\343\353\000\316
\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\206
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\012\006\010\052\206\110\316\075\004\003\003\003\151\000
\060\146\002\061\000\251\144\130\367\234\271\023\146\042\111\177
\262\321\002\351\023\374\034\373\244\064\222\344\312\007\015\267
\261\122\170\050\064\313\362\041\126\221\206\206\310\212\013\257
\062\204\124\145\211\002\061\000\354\171\015\235\211\360\014\030
\352\173\127\122\255\013\346\324\171\133\313\233\342\006\105\165
\030\275\320\374\247\335\307\341\307\042\266\343\101\044\135\043
\346\250\237\000\152\120\062\045
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Network Solutions ECC Certificate Authority"
Issuer: CN=Network Solutions ECC Certificate Authority,O=Network Solutions
L.L.C.,L=Jacksonville,ST=FL,C=US
Serial Number:79:38:4b:b4:19:1a:8d:74:22:cc:ff:85:32:f2:e4:ba
Subject: CN=Network Solutions ECC Certificate Authority,O=Network Solutions
L.L.C.,L=Jacksonville,ST=FL,C=US

```
# Not Valid Before: Wed Nov 18 00:00:00 2015
# Not Valid After: Mon Jan 18 23:59:59 2038
# Fingerprint (MD5): a5:a8:cc:e3:1c:41:11:8c:6a:8c:38:bd:a2:47:fe:b2
# Fingerprint (SHA1): 80:f9:5b:74:1c:38:39:94:95:c3:4f:20:c2:3e:73:36:31:4d:3c:6b
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Network Solutions ECC Certificate Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\200\371\133\164\034\070\071\224\225\303\117\040\302\076\163\066
\061\115\074\153
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\245\250\314\343\034\101\021\214\152\214\070\275\242\107\376\262
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\212\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\013\060\011\006\003\125\004\010\023\002\106\114\061\025\060
\023\006\003\125\004\007\023\014\112\141\143\153\163\157\156\166
\151\154\154\145\061\041\060\037\006\003\125\004\012\023\030\116
\145\164\167\157\162\153\040\123\157\154\165\164\151\157\156\163
\040\114\056\114\056\103\056\061\064\060\062\006\003\125\004\003
\023\053\116\145\164\167\157\162\153\040\123\157\154\165\164\151
\157\156\163\040\105\103\103\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\171\070\113\264\031\032\215\164\042\314\377\205\062\362
\344\272
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "Australian Defence Public Root CA"
# Issuer: CN=Australian Defence Public Root CA,OU=CAs,OU=PKI,OU=DoD,O=GOV,C=AU
# Serial Number:29:eb:92:33:46:4f:32:41:ff:83:19:00:a9:ad:c4:d9:f8:e3:e2:7f
# Subject: CN=Australian Defence Public Root CA,OU=CAs,OU=PKI,OU=DoD,O=GOV,C=AU
# Not Valid Before: Mon Nov 28 22:25:28 2016
# Not Valid After: Fri Nov 28 22:13:48 2036
# Fingerprint (MD5): a2:6b:fb:f8:f3:14:59:bf:16:d7:3c:ce:f3:20:0a:97
# Fingerprint (SHA1): a9:ca:fe:9d:fd:67:f4:14:5a:d3:97:d0:e2:f3:05:0d:19:8d:e6:ee
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
```

CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Australian Defence Public Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\161\061\013\060\011\006\003\125\004\006\023\002\101\125\061
\014\060\012\006\003\125\004\012\023\003\107\117\126\061\014\060
\012\006\003\125\004\013\023\003\104\157\104\061\014\060\012\006
\003\125\004\013\023\003\120\113\111\061\014\060\012\006\003\125
\004\013\023\003\103\101\163\061\052\060\050\006\003\125\004\003
\023\041\101\165\163\164\162\141\154\151\141\156\040\104\145\146
\145\156\143\145\040\120\165\142\154\151\143\040\122\157\157\164
\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\161\061\013\060\011\006\003\125\004\006\023\002\101\125\061
\014\060\012\006\003\125\004\012\023\003\107\117\126\061\014\060
\012\006\003\125\004\013\023\003\104\157\104\061\014\060\012\006
\003\125\004\013\023\003\120\113\111\061\014\060\012\006\003\125
\004\013\023\003\103\101\163\061\052\060\050\006\003\125\004\003
\023\041\101\165\163\164\162\141\154\151\141\156\040\104\145\146
\145\156\143\145\040\120\165\142\154\151\143\040\122\157\157\164
\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\051\353\222\063\106\117\062\101\377\203\031\000\251\255
\304\331\370\343\342\177
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\042\060\202\003\012\240\003\002\001\002\002\024\051
\353\222\063\106\117\062\101\377\203\031\000\251\255\304\331\370
\343\342\177\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\161\061\013\060\011\006\003\125\004\006\023\002\101
\125\061\014\060\012\006\003\125\004\012\023\003\107\117\126\061
\014\060\012\006\003\125\004\013\023\003\104\157\104\061\014\060
\012\006\003\125\004\013\023\003\120\113\111\061\014\060\012\006
\003\125\004\013\023\003\103\101\163\061\052\060\050\006\003\125
\004\003\023\041\101\165\163\164\162\141\154\151\141\156\040\104
\145\146\145\156\143\145\040\120\165\142\154\151\143\040\122\157
\157\164\040\103\101\060\036\027\015\061\066\061\061\062\070\062
\062\062\065\062\070\132\027\015\063\066\061\061\062\070\062\062
\061\063\064\070\132\060\161\061\013\060\011\006\003\125\004\006
\023\002\101\125\061\014\060\012\006\003\125\004\012\023\003\107
\117\126\061\014\060\012\006\003\125\004\013\023\003\104\157\104
\061\014\060\012\006\003\125\004\013\023\003\120\113\111\061\014
\060\012\006\003\125\004\013\023\003\103\101\163\061\052\060\050
\006\003\125\004\003\023\041\101\165\163\164\162\141\154\151\141
\156\040\104\145\146\145\156\143\145\040\120\165\142\154\151\143

\040\122\157\157\164\040\103\101\060\202\001\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\001\017\000
\060\202\001\012\002\202\001\001\000\323\116\124\004\033\320\364
\233\235\270\043\207\340\040\307\236\230\261\161\172\006\220\056
\342\255\110\376\223\005\154\354\206\277\050\100\205\263\114\171
\357\107\123\230\020\036\124\356\175\170\270\030\023\014\104\122
\375\320\201\252\223\010\043\071\276\137\017\153\335\045\227\363
\001\102\337\324\201\000\304\120\276\172\211\055\031\257\163\112
\077\314\072\300\277\242\250\305\025\367\076\174\101\164\202\153
\056\167\146\342\152\245\221\210\156\006\061\247\257\013\346\132
\340\256\175\132\257\057\107\320\362\373\204\163\234\106\241\036
\204\104\121\304\137\056\332\220\002\137\201\337\021\016\322\373
\273\072\027\163\243\362\215\143\252\117\377\162\172\145\142\203
\132\052\074\362\315\054\043\215\317\353\041\037\277\324\003\127
\365\067\026\014\136\345\127\021\302\250\372\377\154\071\362\075
\122\346\265\171\300\133\342\262\352\143\040\014\016\245\052\136
\022\341\346\257\137\213\174\240\255\071\065\065\230\137\361\257
\070\320\046\323\115\275\142\167\165\075\257\153\024\206\173\132
\366\041\217\326\352\342\247\016\255\002\003\001\000\001\243\201
\261\060\201\256\060\017\006\003\125\035\023\001\001\377\004\005
\060\003\001\001\377\060\113\006\003\125\035\040\004\104\060\102
\060\006\006\004\125\035\040\000\060\070\006\011\052\044\001\202
\116\001\001\001\007\060\053\060\051\006\010\053\006\001\005\005
\007\002\001\026\035\150\164\164\160\072\057\057\143\162\154\056
\144\145\146\145\156\143\145\056\147\157\166\056\141\165\057\160
\153\151\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\306\060\037\006\003\125\035\043\004\030\060\026\200\024\254
\231\341\002\057\350\134\113\101\267\064\270\036\351\233\203\066
\015\224\264\060\035\006\003\125\035\016\004\026\004\024\254\231
\341\002\057\350\134\113\101\267\064\270\036\351\233\203\066\015
\224\264\060\015\006\011\052\206\110\206\367\015\001\001\013\005
\000\003\202\001\001\000\170\274\201\112\330\072\127\273\275\046
\277\352\052\050\360\210\212\362\120\114\220\147\332\113\365\270
\024\010\272\333\177\162\250\232\131\274\361\034\211\250\364\072
\003\020\124\023\172\135\306\332\272\076\017\210\325\152\323\033
\227\055\142\141\072\157\371\000\257\162\006\163\354\020\300\141
\036\314\134\117\031\062\106\070\301\335\077\322\067\032\245\216
\206\240\360\011\314\065\326\031\002\174\315\071\374\367\371\037
\347\224\171\116\075\267\370\227\116\073\104\152\315\224\260\271
\367\176\342\343\371\231\177\305\323\246\120\264\111\373\026\176
\116\101\054\317\076\307\171\100\272\201\030\046\010\371\305\235
\343\330\361\157\034\150\077\152\133\167\027\122\243\006\336\031
\302\113\156\242\225\374\325\010\277\054\265\151\065\121\343\343
\337\117\032\051\155\203\170\075\070\044\312\002\077\124\020\341
\263\144\341\325\232\336\363\067\366\063\020\265\166\263\253\327
\311\037\123\072\255\125\101\034\110\311\066\236\207\377\165\334
\151\320\257\331\172\127\306\312\261\103\374\071\201\374\334\172
\243\232\245\230\120\124

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Australian Defence Public Root CA"
Issuer: CN=Australian Defence Public Root CA,OU=CAs,OU=PKI,OU=DoD,O=GOV,C=AU
Serial Number:29:eb:92:33:46:4f:32:41:ff:83:19:00:a9:ad:c4:d9:f8:e3:e2:7f
Subject: CN=Australian Defence Public Root CA,OU=CAs,OU=PKI,OU=DoD,O=GOV,C=AU
Not Valid Before: Mon Nov 28 22:25:28 2016
Not Valid After: Fri Nov 28 22:13:48 2036
Fingerprint (MD5): a2:6b:fb:f8:f3:14:59:bf:16:d7:3c:ce:f3:20:0a:97
Fingerprint (SHA1): a9:ca:fe:9d:fd:67:f4:14:5a:d3:97:d0:e2:f3:05:0d:19:8d:e6:ee
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Australian Defence Public Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\251\312\376\235\375\147\364\024\132\323\227\320\342\363\005\015
\031\215\346\356
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\242\153\373\370\363\024\131\277\026\327\074\316\363\040\012\227
END
CKA_ISSUER MULTILINE_OCTAL
\060\161\061\013\060\011\006\003\125\004\006\023\002\101\125\061
\014\060\012\006\003\125\004\012\023\003\107\117\126\061\014\060
\012\006\003\125\004\013\023\003\104\157\104\061\014\060\012\006
\003\125\004\013\023\003\120\113\111\061\014\060\012\006\003\125
\004\013\023\003\103\101\163\061\052\060\050\006\003\125\004\003
\023\041\101\165\163\164\162\141\154\151\141\156\040\104\145\146
\145\156\143\145\040\120\165\142\154\151\143\040\122\157\157\164
\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\051\353\222\063\106\117\062\101\377\203\031\000\251\255
\304\331\370\343\342\177
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "SI-TRUST Root"
Issuer: CN=SI-TRUST Root,2.5.4.97=VATSI-17659957,O=Republika Slovenija,C=SI

Serial Number:90:ae:77:76:00:00:00:00:57:1d:d0:6f
Subject: CN=SI-TRUST Root,2.5.4.97=VATSI-17659957,O=Republika Slovenija,C=SI
Not Valid Before: Mon Apr 25 07:38:17 2016
Not Valid After: Fri Dec 25 08:08:17 2037
Fingerprint (MD5): 3a:ba:c6:f3:c7:d1:b7:8a:86:22:7d:ee:99:81:fc:90
Fingerprint (SHA1): 3a:49:79:b4:0f:a8:41:48:82:00:b5:82:fb:ee:b6:3a:ab:99:19:ae
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SI-TRUST Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\134\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\034\060\032\006\003\125\004\012\023\023\122\145\160\165\142\154
\151\153\141\040\123\154\157\166\145\156\151\152\141\061\027\060
\025\006\003\125\004\141\023\016\126\101\124\123\111\055\061\067
\066\065\071\071\065\067\061\026\060\024\006\003\125\004\003\023
\015\123\111\055\124\122\125\123\124\040\122\157\157\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\134\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\034\060\032\006\003\125\004\012\023\023\122\145\160\165\142\154
\151\153\141\040\123\154\157\166\145\156\151\152\141\061\027\060
\025\006\003\125\004\141\023\016\126\101\124\123\111\055\061\067
\066\065\071\071\065\067\061\026\060\024\006\003\125\004\003\023
\015\123\111\055\124\122\125\123\124\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\000\220\256\167\166\000\000\000\000\127\035\320\157
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\212\060\202\002\362\240\003\002\001\002\002\015\000
\220\256\167\166\000\000\000\000\127\035\320\157\060\015\006\011
\052\206\110\206\367\015\001\001\013\005\000\060\134\061\013\060
\011\006\003\125\004\006\023\002\123\111\061\034\060\032\006\003
\125\004\012\023\023\122\145\160\165\142\154\151\153\141\040\123
\154\157\166\145\156\151\152\141\061\027\060\025\006\003\125\004
\141\023\016\126\101\124\123\111\055\061\067\066\065\071\071\065
\067\061\026\060\024\006\003\125\004\003\023\015\123\111\055\124
\122\125\123\124\040\122\157\157\164\060\036\027\015\061\066\060
\064\062\065\060\067\063\070\061\067\132\027\015\063\067\061\062
\062\065\060\070\060\070\061\067\132\060\134\061\013\060\011\006
\003\125\004\006\023\002\123\111\061\034\060\032\006\003\125\004
\012\023\023\122\145\160\165\142\154\151\153\141\040\123\154\157
\166\145\156\151\152\141\061\027\060\025\006\003\125\004\141\023
\016\126\101\124\123\111\055\061\067\066\065\071\071\065\067\061

\026\060\024\006\003\125\004\003\023\015\123\111\055\124\122\125
\123\124\040\122\157\157\164\060\202\001\242\060\015\006\011\052
\206\110\206\367\015\001\001\001\005\000\003\202\001\217\000\060
\202\001\212\002\202\001\201\000\323\313\234\055\302\340\060\103
\145\061\044\377\113\260\070\331\251\123\327\065\321\333\267\113
\223\264\162\215\361\313\225\322\123\053\164\233\062\232\244\057
\076\002\006\335\257\160\025\241\252\317\021\207\212\146\173\313
\314\035\160\104\134\217\254\312\346\303\133\047\264\215\243\216
\020\277\156\124\164\010\160\212\043\350\312\307\164\304\146\221
\040\335\113\350\245\204\165\245\230\225\202\213\033\341\040\044
\007\106\253\014\145\066\100\147\213\165\356\251\331\221\051\033
\355\157\055\105\302\326\342\140\001\261\363\116\071\053\073\157
\077\205\276\010\366\123\053\173\242\311\105\241\104\201\200\146
\232\140\072\033\304\276\014\314\060\020\177\021\066\070\112\346
\233\241\226\123\234\224\314\021\306\004\114\242\125\113\377\200
\341\257\214\034\065\374\271\223\067\337\371\135\075\334\353\015
\047\154\104\311\131\146\053\126\157\377\004\033\367\365\151\303
\135\303\030\376\275\247\331\144\057\242\237\140\331\162\154\075
\074\165\362\045\047\230\056\072\270\311\335\115\165\275\253\260
\042\141\130\001\067\050\246\040\235\056\140\134\373\220\274\106
\103\270\376\155\330\300\146\042\044\153\064\170\042\345\271\342
\130\351\110\070\356\114\275\001\173\156\076\100\352\321\302\012
\102\223\147\303\046\057\077\007\133\317\257\343\035\350\072\342
\145\341\204\221\077\365\146\000\375\252\063\106\102\354\026\076
\322\023\145\057\016\011\123\366\344\052\165\024\234\031\063\026
\232\105\341\333\127\317\317\070\324\247\367\355\130\103\344\016
\230\134\304\340\061\077\224\244\157\113\112\242\325\112\215\046
\251\035\144\045\010\065\015\347\002\003\001\000\001\243\113\060
\111\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\016\006\003\125\035\017\001\001\377\004\004\003\002
\001\006\060\023\006\003\125\035\043\004\014\060\012\200\010\114
\243\303\150\136\010\002\143\060\021\006\003\125\035\016\004\012
\004\010\114\243\303\150\136\010\002\143\060\015\006\011\052\206
\110\206\367\015\001\001\013\005\000\003\202\001\201\000\046\043
\205\273\135\101\031\156\222\203\212\356\001\213\004\065\031\177
\253\217\334\326\063\301\371\171\226\136\043\365\360\316\335\352
\333\141\073\132\257\335\130\351\102\211\100\357\371\331\147\021
\177\115\361\355\351\021\173\261\101\017\355\244\322\026\266\357
\301\375\213\366\021\053\054\357\374\007\006\106\014\317\002\013
\355\073\336\217\011\271\063\253\046\200\124\104\102\145\327\347
\257\315\120\016\312\310\210\241\022\234\052\225\073\076\124\074
\110\163\366\174\170\324\233\377\223\367\105\344\051\204\143\374
\372\176\032\347\134\340\162\127\260\057\170\035\060\306\023\375
\210\137\261\145\210\332\136\227\023\201\173\376\036\317\173\277
\127\060\301\160\222\103\246\231\360\125\237\230\305\043\102\275
\164\034\061\216\022\245\331\105\152\052\132\310\130\315\275\326
\335\076\065\013\031\177\003\034\316\007\017\207\105\223\025\241
\153\275\064\034\340\336\365\324\270\345\221\034\113\005\265\047

\046\274\317\321\011\230\026\306\341\361\125\113\072\173\155\336
\306\147\266\301\067\055\237\250\216\131\307\267\246\305\357\337
\026\342\355\336\262\267\363\242\066\244\050\062\072\012\224\313
\077\136\376\156\131\355\272\066\262\223\326\306\303\031\376\365
\231\170\353\107\107\345\255\102\172\354\274\173\311\056\101\116
\115\017\004\016\212\113\063\207\334\361\166\174\132\030\214\234
\012\022\327\242\263\302\205\207\256\155\061\120\142\062\041\240
\150\026\137\224\065\164\125\051\322\161\201\010\112\341\327\135
\252\124\001\263\033\174\131\256\276\254\014\312\270\100\144\147
\133\235\352\006\006\021\326\320\060\163\036\343\274\053
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "SI-TRUST Root"
Issuer: CN=SI-TRUST Root,2.5.4.97=VATSI-17659957,O=Republika Slovenija,C=SI
Serial Number:90:ae:77:76:00:00:00:00:57:1d:d0:6f
Subject: CN=SI-TRUST Root,2.5.4.97=VATSI-17659957,O=Republika Slovenija,C=SI
Not Valid Before: Mon Apr 25 07:38:17 2016
Not Valid After: Fri Dec 25 08:08:17 2037
Fingerprint (MD5): 3a:ba:c6:f3:c7:d1:b7:8a:86:22:7d:ee:99:81:fc:90
Fingerprint (SHA1): 3a:49:79:b4:0f:a8:41:48:82:00:b5:82:fb:ee:b6:3a:ab:99:19:ae
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SI-TRUST Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\072\111\171\264\017\250\101\110\202\000\265\202\373\356\266\072
\253\231\031\256
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\072\272\306\363\307\321\267\212\206\042\175\356\231\201\374\220
END
CKA_ISSUER MULTILINE_OCTAL
\060\134\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\034\060\032\006\003\125\004\012\023\023\122\145\160\165\142\154
\151\153\141\040\123\154\157\166\145\156\151\152\141\061\027\060
\025\006\003\125\004\141\023\016\126\101\124\123\111\055\061\067
\066\065\071\071\065\067\061\026\060\024\006\003\125\004\003\023
\015\123\111\055\124\122\125\123\124\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\000\220\256\167\166\000\000\000\000\127\035\320\157
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Halcom Root Certificate Authority"
Issuer: CN=Halcom Root Certificate Authority,2.5.4.97=VATSI-43353126,O=Halcom d.d.,C=SI
Serial Number: 843675 (0xcdf9b)
Subject: CN=Halcom Root Certificate Authority,2.5.4.97=VATSI-43353126,O=Halcom d.d.,C=SI
Not Valid Before: Fri Jun 10 07:07:50 2016
Not Valid After: Tue Jun 10 07:07:50 2036
Fingerprint (MD5): 69:16:83:a1:f7:27:b9:ec:7c:d2:c6:b3:79:b2:a3:61
Fingerprint (SHA1): 23:d7:31:fe:dc:5c:8b:b9:7d:e6:dc:8e:13:b4:11:bd:4f:24:00:4f
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Halcom Root Certificate Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\150\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\024\060\022\006\003\125\004\012\023\013\110\141\154\143\157\155
\040\144\056\144\056\061\027\060\025\006\003\125\004\141\023\016
\126\101\124\123\111\055\064\063\063\065\063\061\062\066\061\052
\060\050\006\003\125\004\003\023\041\110\141\154\143\157\155\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\145
\040\101\165\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\150\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\024\060\022\006\003\125\004\012\023\013\110\141\154\143\157\155
\040\144\056\144\056\061\027\060\025\006\003\125\004\141\023\016
\126\101\124\123\111\055\064\063\063\065\063\061\062\066\061\052
\060\050\006\003\125\004\003\023\041\110\141\154\143\157\155\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\145
\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\014\337\233
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\200\060\202\002\150\240\003\002\001\002\002\003\014
\337\233\060\015\006\011\052\206\110\206\367\015\001\001\013\005
\000\060\150\061\013\060\011\006\003\125\004\006\023\002\123\111
\061\024\060\022\006\003\125\004\012\023\013\110\141\154\143\157
\155\040\144\056\144\056\061\027\060\025\006\003\125\004\141\023
\016\126\101\124\123\111\055\064\063\063\065\063\061\062\066\061

\052\060\050\006\003\125\004\003\023\041\110\141\154\143\157\155
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\145\040\101\165\164\150\157\162\151\164\171\060\036\027\015\061
\066\060\066\061\060\060\067\060\067\065\060\132\027\015\063\066
\060\066\061\060\060\067\060\067\065\060\132\060\150\061\013\060
\011\006\003\125\004\006\023\002\123\111\061\024\060\022\006\003
\125\004\012\023\013\110\141\154\143\157\155\040\144\056\144\056
\061\027\060\025\006\003\125\004\141\023\016\126\101\124\123\111
\055\064\063\063\065\063\061\062\066\061\052\060\050\006\003\125
\004\003\023\041\110\141\154\143\157\155\040\122\157\157\164\040
\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150
\157\162\151\164\171\060\202\001\042\060\015\006\011\052\206\110
\206\367\015\001\001\001\005\000\003\202\001\017\000\060\202\001
\012\002\202\001\001\000\351\122\246\306\032\357\143\273\255\201
\364\220\262\132\217\015\325\026\063\264\034\030\373\313\211\052
\060\273\145\201\304\341\373\002\251\224\007\166\345\327\025\344
\172\144\020\200\352\074\320\263\242\255\256\034\037\352\273\201
\141\230\324\371\215\151\225\304\105\056\003\011\312\206\372\134
\132\021\027\100\060\076\360\306\143\011\311\361\215\101\245\126
\015\005\144\151\113\130\254\052\051\226\273\100\063\026\064\113
\147\154\327\361\264\106\245\352\131\250\103\150\017\214\070\052
\252\074\366\104\003\206\370\212\333\105\041\053\051\036\022\267
\372\245\145\101\336\006\010\130\160\225\076\364\114\331\353\017
\051\251\221\212\236\255\312\022\365\345\225\346\070\331\032\246
\213\234\117\246\110\023\020\245\171\104\275\152\073\051\365\026
\167\100\313\176\233\134\337\276\213\353\347\240\031\157\237\025
\077\047\236\051\261\365\015\374\137\107\242\074\335\056\013\002
\373\364\215\352\354\014\261\371\264\005\254\371\217\251\075\156
\054\035\071\237\320\116\237\116\310\152\236\200\003\141\334\317
\370\155\224\313\017\317\002\003\001\000\001\243\063\060\061\060
\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377
\060\021\006\003\125\035\016\004\012\004\010\102\256\246\103\307
\230\050\260\060\013\006\003\125\035\017\004\004\003\002\001\006
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003
\202\001\001\000\122\271\171\320\333\143\376\031\201\373\014\371
\301\345\120\131\312\235\262\373\134\063\320\070\250\253\265\032
\116\123\045\165\042\323\111\277\312\201\317\323\341\173\243\221
\106\165\312\032\353\331\365\135\274\173\206\065\375\201\227\234
\204\327\046\230\042\374\261\065\320\251\225\266\174\377\344\227
\264\100\176\111\135\150\310\342\324\071\165\047\117\003\221\262
\061\127\277\206\327\155\312\161\000\042\067\320\073\130\044\120
\240\234\214\232\211\216\365\050\106\154\347\026\355\260\201\253
\364\106\046\257\246\350\032\105\167\160\026\222\262\173\161\161
\334\367\337\111\147\300\063\010\016\056\123\301\167\253\307\112
\221\114\022\357\347\016\011\345\165\061\040\256\156\374\132\212
\200\234\020\260\333\250\112\314\363\053\334\066\064\246\367\251
\013\147\235\220\313\075\046\237\165\315\114\311\035\006\012\165
\213\122\300\201\360\321\046\254\314\222\246\024\234\134\074\026

\102\373\223\314\002\250\023\363\332\256\012\303\270\025\364\260
\320\324\340\026\040\117\254\120\230\170\046\224\036\150\353\224
\162\376\367\213
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Halcom Root Certificate Authority"
Issuer: CN=Halcom Root Certificate Authority,2.5.4.97=VATSI-43353126,O=Halcom d.d.,C=SI
Serial Number: 843675 (0xcdf9b)
Subject: CN=Halcom Root Certificate Authority,2.5.4.97=VATSI-43353126,O=Halcom d.d.,C=SI
Not Valid Before: Fri Jun 10 07:07:50 2016
Not Valid After: Tue Jun 10 07:07:50 2036
Fingerprint (MD5): 69:16:83:a1:f7:27:b9:ec:7c:d2:c6:b3:79:b2:a3:61
Fingerprint (SHA1): 23:d7:31:fe:dc:5c:8b:b9:7d:e6:dc:8e:13:b4:11:bd:4f:24:00:4f
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Halcom Root Certificate Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\043\327\061\376\334\134\213\271\175\346\334\216\023\264\021\275
\117\044\000\117
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\151\026\203\241\367\047\271\354\174\322\306\263\171\262\243\141
END
CKA_ISSUER MULTILINE_OCTAL
\060\150\061\013\060\011\006\003\125\004\006\023\002\123\111\061
\024\060\022\006\003\125\004\012\023\013\110\141\154\143\157\155
\040\144\056\144\056\061\027\060\025\006\003\125\004\141\023\016
\126\101\124\123\111\055\064\063\063\065\063\061\062\066\061\052
\060\050\006\003\125\004\003\023\041\110\141\154\143\157\155\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\145
\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\014\337\233
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Application CA G3 Root"

```
# Issuer: CN=Application CA G3 Root,O=LGPKI,C=JP
# Serial Number: 49 (0x31)
# Subject: CN=Application CA G3 Root,O=LGPKI,C=JP
# Not Valid Before: Tue Jun 03 15:00:00 2014
# Not Valid After: Sat Jun 03 14:59:59 2034
# Fingerprint (MD5): 47:5e:d1:73:5a:e8:95:77:04:01:a3:3f:33:02:5c:20
# Fingerprint (SHA1): 6f:38:84:56:8e:99:c8:c6:ac:0e:5d:de:2d:b2:02:dd:00:2e:36:63
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Application CA G3 Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\016\060\014\006\003\125\004\012\023\005\114\107\120\113\111\061
\037\060\035\006\003\125\004\003\023\026\101\160\160\154\151\143
\141\164\151\157\156\040\103\101\040\107\063\040\122\157\157\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\016\060\014\006\003\125\004\012\023\005\114\107\120\113\111\061
\037\060\035\006\003\125\004\003\023\026\101\160\160\154\151\143
\141\164\151\157\156\040\103\101\040\107\063\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\061
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\132\060\202\002\102\240\003\002\001\002\002\001\061
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\076\061\013\060\011\006\003\125\004\006\023\002\112\120\061\016
\060\014\006\003\125\004\012\023\005\114\107\120\113\111\061\037
\060\035\006\003\125\004\003\023\026\101\160\160\154\151\143\141
\164\151\157\156\040\103\101\040\107\063\040\122\157\157\164\060
\036\027\015\061\064\060\066\060\063\061\065\060\060\060\060\132
\027\015\063\064\060\066\060\063\061\064\065\071\065\071\132\060
\076\061\013\060\011\006\003\125\004\006\023\002\112\120\061\016
\060\014\006\003\125\004\012\023\005\114\107\120\113\111\061\037
\060\035\006\003\125\004\003\023\026\101\160\160\154\151\143\141
\164\151\157\156\040\103\101\040\107\063\040\122\157\157\164\060
\202\001\042\060\015\006\011\052\206\110\206\367\015\001\001\001
\005\000\003\202\001\017\000\060\202\001\012\002\202\001\001\000
\315\105\076\367\321\226\042\134\221\057\076\012\000\003\314\266
\367\154\124\374\050\067\324\004\030\354\255\230\311\257\323\245
\271\347\331\277\116\346\243\231\074\231\156\241\040\036\106\033
\342\165\125\274\322\354\366\210\032\354\064\105\113\203\235\323
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\262\346\335\007\211\301\010\331\370\073\213\222\144\162\135\232
\073\314\255\067\211\307\334\140\171\010\340\160\254\367\053\355
\237\003\111\037\216\076\203\250\156\342\222\134\124\321\171\337
\354\030\072\175\270\155\217\326\243\045\115\255\037\100\246\137
\324\252\116\261\160\030\131\231\362\013\124\151\076\171\050\104
\210\367\161\227\315\177\005\334\312\334\166\112\220\114\153\140
\350\372\046\061\330\265\370\347\374\155\213\044\152\266\357\102
\327\043\124\305\032\143\212\073\307\374\252\155\074\217\313\154
\332\040\260\362\274\145\034\001\114\042\225\015\034\043\037\254
\325\371\316\165\133\352\060\275\114\001\044\037\165\324\141\111
\303\033\231\145\216\010\134\071\070\315\051\303\070\105\315\144
\171\267\233\115\107\352\130\062\372\246\366\222\360\301\267\137
\002\003\001\000\001\243\143\060\141\060\035\006\003\125\035\016
\004\026\004\024\251\065\052\110\276\054\067\355\206\333\174\125
\207\000\046\276\030\055\134\056\060\016\006\003\125\035\017\001
\001\377\004\004\003\002\001\006\060\017\006\003\125\035\023\001
\001\377\004\005\060\003\001\001\377\060\037\006\003\125\035\043
\004\030\060\026\200\024\251\065\052\110\276\054\067\355\206\333
\174\125\207\000\046\276\030\055\134\056\060\015\006\011\052\206
\110\206\367\015\001\001\013\005\000\003\202\001\001\000\266\202
\275\305\106\320\161\213\245\221\075\176\055\132\371\234\204\175
\007\047\225\035\347\115\310\174\354\346\223\350\126\032\172\060
\110\073\014\372\116\365\011\262\257\210\255\224\354\375\262\255
\057\346\005\164\041\033\204\213\070\052\303\355\357\106\150\265
\335\122\372\160\302\165\117\377\243\101\056\074\027\224\114\011
\042\264\216\301\177\304\246\254\355\203\150\317\145\136\354\172
\275\305\146\356\320\243\177\362\127\261\010\302\171\160\353\162
\177\101\131\011\171\165\361\274\261\041\376\203\263\104\075\211
\243\276\261\172\330\235\303\037\346\304\124\341\215\345\330\120
\334\344\126\067\173\276\050\000\363\054\167\332\043\177\140\230
\075\005\026\362\170\151\255\231\303\072\164\154\076\232\262\224
\355\217\252\366\123\153\347\310\267\350\074\214\373\307\174\117
\031\135\244\146\025\351\177\207\240\320\325\255\040\244\106\011
\105\254\345\310\145\207\273\006\337\374\327\150\126\103\163\242
\000\231\062\222\302\016\240\034\016\221\275\225\130\274\223\237
\204\302\245\146\347\145\315\051\342\142\362\005\222\140
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Application CA G3 Root"
Issuer: CN=Application CA G3 Root,O=LGPKI,C=JP
Serial Number: 49 (0x31)
Subject: CN=Application CA G3 Root,O=LGPKI,C=JP
Not Valid Before: Tue Jun 03 15:00:00 2014
Not Valid After: Sat Jun 03 14:59:59 2034

Fingerprint (MD5): 47:5e:d1:73:5a:e8:95:77:04:01:a3:3f:33:02:5c:20
Fingerprint (SHA1): 6f:38:84:56:8e:99:c8:c6:ac:0e:5d:de:2d:b2:02:dd:00:2e:36:63
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Application CA G3 Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\157\070\204\126\216\231\310\306\254\016\135\336\055\262\002\335
\000\056\066\143
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\107\136\321\163\132\350\225\167\004\001\243\077\063\002\134\040
END
CKA_ISSUER MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\016\060\014\006\003\125\004\012\023\005\114\107\120\113\111\061
\037\060\035\006\003\125\004\003\023\026\101\160\160\154\151\143
\141\164\151\157\156\040\103\101\040\107\063\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\061
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "GLOBALTRUST 2015"
Issuer: CN=GLOBALTRUST 2015,OU=GLOBALTRUST Certification Service,O=e-commerce monitoring GmbH,L=Wien,ST=Wien,C=AT
Serial Number: 0 (0x0)
Subject: CN=GLOBALTRUST 2015,OU=GLOBALTRUST Certification Service,O=e-commerce monitoring GmbH,L=Wien,ST=Wien,C=AT
Not Valid Before: Thu Jun 11 00:00:00 2015
Not Valid After: Sun Jun 10 00:00:00 2040
Fingerprint (MD5): da:5a:b9:da:8e:0a:38:d4:82:63:03:9d:6c:96:6c:ed
Fingerprint (SHA1): 46:5b:26:be:be:71:06:dd:85:44:c1:13:9d:9f:a2:57:00:c1:d7:bd
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GLOBALTRUST 2015"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\227\061\013\060\011\006\003\125\004\006\023\002\101\124
\061\015\060\013\006\003\125\004\010\023\004\127\151\145\156\061

\015\060\013\006\003\125\004\007\023\004\127\151\145\156\061\043
\060\041\006\003\125\004\012\023\032\145\055\143\157\155\155\145
\162\143\145\040\155\157\156\151\164\157\162\151\156\147\040\107
\155\142\110\061\052\060\050\006\003\125\004\013\023\041\107\114
\117\102\101\114\124\122\125\123\124\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\123\145\162\166\151\143\145\061
\031\060\027\006\003\125\004\003\023\020\107\114\117\102\101\114
\124\122\125\123\124\040\062\060\061\065
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\227\061\013\060\011\006\003\125\004\006\023\002\101\124
\061\015\060\013\006\003\125\004\010\023\004\127\151\145\156\061
\015\060\013\006\003\125\004\007\023\004\127\151\145\156\061\043
\060\041\006\003\125\004\012\023\032\145\055\143\157\155\155\145
\162\143\145\040\155\157\156\151\164\157\162\151\156\147\040\107
\155\142\110\061\052\060\050\006\003\125\004\013\023\041\107\114
\117\102\101\114\124\122\125\123\124\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\123\145\162\166\151\143\145\061
\031\060\027\006\003\125\004\003\023\020\107\114\117\102\101\114
\124\122\125\123\124\040\062\060\061\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\014\060\202\003\364\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\201\227\061\013\060\011\006\003\125\004\006\023\002\101\124\061
\015\060\013\006\003\125\004\010\023\004\127\151\145\156\061\015
\060\013\006\003\125\004\007\023\004\127\151\145\156\061\043\060
\041\006\003\125\004\012\023\032\145\055\143\157\155\155\145\162
\143\145\040\155\157\156\151\164\157\162\151\156\147\040\107\155
\142\110\061\052\060\050\006\003\125\004\013\023\041\107\114\117
\102\101\114\124\122\125\123\124\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\123\145\162\166\151\143\145\061\031
\060\027\006\003\125\004\003\023\020\107\114\117\102\101\114\124
\122\125\123\124\040\062\060\061\065\060\036\027\015\061\065\060
\066\061\061\060\060\060\060\060\060\132\027\015\064\060\060\066
\061\060\060\060\060\060\060\060\132\060\201\227\061\013\060\011
\006\003\125\004\006\023\002\101\124\061\015\060\013\006\003\125
\004\010\023\004\127\151\145\156\061\015\060\013\006\003\125\004
\007\023\004\127\151\145\156\061\043\060\041\006\003\125\004\012
\023\032\145\055\143\157\155\155\145\162\143\145\040\155\157\156
\151\164\157\162\151\156\147\040\107\155\142\110\061\052\060\050
\006\003\125\004\013\023\041\107\114\117\102\101\114\124\122\125
\123\124\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\123\145\162\166\151\143\145\061\031\060\027\006\003\125\004

\003\023\020\107\114\117\102\101\114\124\122\125\123\124\040\062
\060\061\065\060\202\002\040\060\015\006\011\052\206\110\206\367
\015\001\001\001\005\000\003\202\002\015\000\060\202\002\010\002
\202\002\001\000\324\246\227\250\362\364\220\021\103\255\264\202
\106\101\361\057\221\157\143\242\315\015\040\334\275\014\070\212
\145\112\012\053\072\250\164\251\167\241\213\216\362\057\201\367
\204\030\315\255\353\142\266\222\175\340\101\345\116\124\070\067
\202\357\313\340\355\317\273\312\314\243\113\367\133\376\270\174
\247\010\155\313\103\304\114\042\024\146\343\235\003\271\167\041
\253\104\153\041\107\043\310\040\372\052\313\221\166\035\165\154
\370\233\351\017\046\351\103\057\232\040\005\150\030\307\216\231
\205\055\101\007\246\144\216\130\341\215\225\200\244\115\137\365
\002\330\201\171\333\325\347\337\242\042\375\024\247\147\026\354
\331\130\114\312\251\335\352\032\216\251\010\144\117\121\041\266
\162\242\116\377\120\161\275\073\145\344\275\177\123\021\256\337
\020\071\173\135\366\107\160\027\367\103\221\003\172\141\045\137
\054\374\370\211\021\074\354\071\124\026\111\304\041\232\161\340
\171\213\166\035\166\075\007\131\270\007\261\214\334\307\315\116
\341\373\255\103\115\077\100\357\041\142\057\061\104\116\151\307
\157\042\313\253\124\113\350\302\372\021\150\254\310\156\016\336
\154\305\047\226\011\121\002\115\001\266\127\277\062\050\325\011
\103\226\367\304\210\265\371\124\376\032\072\152\267\054\265\044
\144\373\112\170\162\303\374\331\117\310\116\043\271\051\330\015
\241\110\101\223\002\155\277\022\205\233\306\305\140\055\360\221
\374\231\375\040\224\236\161\143\253\325\111\253\220\354\207\071
\205\177\215\205\314\013\350\333\113\073\016\374\302\166\175\106
\347\071\046\236\337\125\337\036\204\371\101\066\046\154\002\131
\053\216\373\274\351\037\047\044\142\004\147\204\341\077\330\235
\030\116\226\240\045\356\312\050\003\117\002\121\317\367\065\067
\151\244\264\326\326\325\036\031\103\047\026\037\107\121\356\112
\011\114\021\132\266\133\075\141\350\073\020\276\326\106\346\364
\034\375\270\105\275\174\372\165\132\354\341\122\043\015\216\037
\206\227\123\221\134\233\233\050\326\216\345\156\047\255\040\214
\247\301\101\251\227\067\213\054\352\156\030\005\227\366\316\003
\122\361\275\171\064\233\100\307\043\222\164\363\157\355\243\351
\131\360\125\113\002\001\003\243\143\060\141\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\006\060\035\006\003
\125\035\016\004\026\004\024\313\260\335\075\214\074\337\142\054
\053\146\074\236\074\351\025\155\161\264\327\060\037\006\003\125
\035\043\004\030\060\026\200\024\313\260\335\075\214\074\337\142
\054\053\146\074\236\074\351\025\155\161\264\327\060\015\006\011
\052\206\110\206\367\015\001\001\013\005\000\003\202\002\001\000
\242\175\125\004\146\356\026\024\274\202\201\207\045\031\071\142
\364\376\073\037\341\300\163\000\161\312\165\251\342\163\361\305
\015\101\243\135\216\301\055\331\145\133\331\211\342\360\216\305
\240\175\275\313\314\106\123\037\137\355\040\266\002\052\326\023
\362\235\175\121\112\100\125\161\255\236\354\166\352\105\040\216

\252\372\172\103\232\160\147\176\023\336\230\350\313\215\335\037
\254\064\322\241\265\355\376\270\347\026\317\370\321\070\060\215
\064\211\322\316\175\201\322\036\377\121\030\123\066\223\334\011
\313\010\026\270\010\327\132\060\220\212\012\371\057\265\317\304
\315\124\162\052\306\275\001\347\130\013\156\006\100\264\011\316
\264\216\263\232\351\211\221\224\254\172\124\341\373\343\204\054
\203\240\117\376\353\350\301\364\353\266\046\323\070\304\055\255
\254\105\200\064\155\041\075\135\205\072\342\173\376\124\267\335
\350\205\124\313\244\361\253\051\120\170\327\044\265\243\057\236
\257\021\146\256\030\270\375\135\050\317\100\327\125\340\054\353
\122\061\150\103\146\005\227\222\273\305\361\041\054\375\022\144
\061\231\103\157\213\235\113\140\376\024\136\122\263\043\250\341
\230\172\356\024\311\241\342\314\077\166\041\142\375\153\015\331
\264\112\225\346\156\133\172\044\303\323\306\326\037\242\353\067
\153\116\243\337\142\353\353\016\112\010\277\353\030\210\373\107
\032\255\302\121\303\325\174\367\037\053\263\310\112\120\016\151
\130\040\142\001\112\133\312\143\226\046\042\256\366\351\234\100
\254\147\003\235\235\151\025\302\300\370\135\247\044\261\047\074
\277\005\342\253\242\312\311\260\055\176\243\301\061\040\106\041
\145\222\335\312\336\337\223\033\274\155\057\137\251\026\244\127
\207\054\162\232\132\202\147\321\104\342\075\011\012\201\214\036
\020\375\306\064\150\354\377\167\141\166\177\046\367\333\374\022
\106\022\252\300\321\370\171\205\242\002\314\213\252\244\255\154
\024\300\275\374\150\256\104\175\042\371\012\105\135\354\004\346
\372\343\244\305\346\371\262\031\303\331\214\250\223\173\072\212
\151\073\122\023\074\035\063\002\116\226\100\237\271\225\375\223
\027\063\301\311\013\366\375\275\151\020\365\255\051\373\343\332
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "GLOBALTRUST 2015"
Issuer: CN=GLOBALTRUST 2015,OU=GLOBALTRUST Certification Service,O=e-commerce monitoring GmbH,L=Wien,ST=Wien,C=AT
Serial Number: 0 (0x0)
Subject: CN=GLOBALTRUST 2015,OU=GLOBALTRUST Certification Service,O=e-commerce monitoring GmbH,L=Wien,ST=Wien,C=AT
Not Valid Before: Thu Jun 11 00:00:00 2015
Not Valid After: Sun Jun 10 00:00:00 2040
Fingerprint (MD5): da:5a:b9:da:8e:0a:38:d4:82:63:03:9d:6c:96:6c:ed
Fingerprint (SHA1): 46:5b:26:be:be:71:06:dd:85:44:c1:13:9d:9f:a2:57:00:c1:d7:bd
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GLOBALTRUST 2015"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\106\133\046\276\276\161\006\335\205\104\301\023\235\237\242\127
\000\301\327\275
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\332\132\271\332\216\012\070\324\202\143\003\235\154\226\154\355
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\227\061\013\060\011\006\003\125\004\006\023\002\101\124
\061\015\060\013\006\003\125\004\010\023\004\127\151\145\156\061
\015\060\013\006\003\125\004\007\023\004\127\151\145\156\061\043
\060\041\006\003\125\004\012\023\032\145\055\143\157\155\155\145
\162\143\145\040\155\157\156\151\164\157\162\151\156\147\040\107
\155\142\110\061\052\060\050\006\003\125\004\013\023\041\107\114
\117\102\101\114\124\122\125\123\124\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\123\145\162\166\151\143\145\061
\031\060\027\006\003\125\004\003\023\020\107\114\117\102\101\114
\124\122\125\123\124\040\062\060\061\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Microsoft ECC Product Root Certificate Authority 2018"
Issuer: CN=Microsoft ECC Product Root Certificate Authority 2018,O=Microsoft
Corporation,L=Redmond,ST=Washington,C=US
Serial Number:14:98:26:66:dc:7c:cd:8f:40:53:67:7b:b9:99:ec:85
Subject: CN=Microsoft ECC Product Root Certificate Authority 2018,O=Microsoft
Corporation,L=Redmond,ST=Washington,C=US
Not Valid Before: Tue Feb 27 20:42:08 2018
Not Valid After: Fri Feb 27 20:50:46 2043
Fingerprint (MD5): 1f:12:4e:de:13:e0:6a:02:3c:d7:c0:9a:4f:48:c3:d6
Fingerprint (SHA1): 06:f1:aa:33:0b:92:7b:75:3a:40:e6:8c:df:22:e3:4b:cb:ef:33:52
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft ECC Product Root Certificate Authority 2018"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\127\141\163\150\151
\156\147\164\157\156\061\020\060\016\006\003\125\004\007\023\007

\122\145\144\155\157\156\144\061\036\060\034\006\003\125\004\012
\023\025\115\151\143\162\157\163\157\146\164\040\103\157\162\160
\157\162\141\164\151\157\156\061\076\060\074\006\003\125\004\003
\023\065\115\151\143\162\157\163\157\146\164\040\105\103\103\040
\120\162\157\144\165\143\164\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\070
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\127\141\163\150\151
\156\147\164\157\156\061\020\060\016\006\003\125\004\007\023\007
\122\145\144\155\157\156\144\061\036\060\034\006\003\125\004\012
\023\025\115\151\143\162\157\163\157\146\164\040\103\157\162\160
\157\162\141\164\151\157\156\061\076\060\074\006\003\125\004\003
\023\065\115\151\143\162\157\163\157\146\164\040\105\103\103\040
\120\162\157\144\165\143\164\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\070
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\024\230\046\146\334\174\315\217\100\123\147\173\271\231
\354\205
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\043\060\202\002\250\240\003\002\001\002\002\020\024
\230\046\146\334\174\315\217\100\123\147\173\271\231\354\205\060
\012\006\010\052\206\110\316\075\004\003\003\060\201\224\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\023\060\021\006
\003\125\004\010\023\012\127\141\163\150\151\156\147\164\157\156
\061\020\060\016\006\003\125\004\007\023\007\122\145\144\155\157
\156\144\061\036\060\034\006\003\125\004\012\023\025\115\151\143
\162\157\163\157\146\164\040\103\157\162\160\157\162\141\164\151
\157\156\061\076\060\074\006\003\125\004\003\023\065\115\151\143
\162\157\163\157\146\164\040\105\103\103\040\120\162\157\144\165
\143\164\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\062\060
\061\070\060\036\027\015\061\070\060\062\062\067\062\060\064\062
\060\070\132\027\015\064\063\060\062\062\067\062\060\065\060\064
\066\132\060\201\224\061\013\060\011\006\003\125\004\006\023\002
\125\123\061\023\060\021\006\003\125\004\010\023\012\127\141\163
\150\151\156\147\164\157\156\061\020\060\016\006\003\125\004\007
\023\007\122\145\144\155\157\156\144\061\036\060\034\006\003\125
\004\012\023\025\115\151\143\162\157\163\157\146\164\040\103\157
\162\160\157\162\141\164\151\157\156\061\076\060\074\006\003\125
\004\003\023\065\115\151\143\162\157\163\157\146\164\040\105\103
\103\040\120\162\157\144\165\143\164\040\122\157\157\164\040\103

\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157
\162\151\164\171\040\062\060\061\070\060\166\060\020\006\007\052
\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000
\004\307\021\026\052\166\035\126\216\276\271\142\145\324\303\316
\264\360\303\060\354\217\155\327\156\071\274\310\111\253\253\270
\343\103\170\325\201\006\135\357\307\175\237\316\326\263\220\165
\336\014\260\220\336\043\272\310\321\076\147\340\031\251\033\206
\061\036\137\064\055\356\027\375\025\373\176\047\212\062\241\352
\311\217\311\176\030\313\057\073\054\110\172\175\246\364\001\007
\254\243\201\274\060\201\271\060\016\006\003\125\035\017\001\001
\377\004\004\003\002\001\206\060\017\006\003\125\035\023\001\001
\377\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004
\026\004\024\103\357\160\207\270\235\277\354\210\031\334\306\304
\153\165\015\165\064\063\010\060\020\006\011\053\006\001\004\001
\202\067\025\001\004\003\002\001\000\060\145\006\003\125\035\040
\004\136\060\134\060\006\006\004\125\035\040\000\060\122\006\014
\053\006\001\004\001\202\067\114\203\175\001\001\060\102\060\100
\006\010\053\006\001\005\005\007\002\001\026\064\150\164\164\160
\072\057\057\167\167\167\056\155\151\143\162\157\163\157\146\164
\056\143\157\155\057\160\153\151\157\160\163\057\104\157\143\163
\057\122\145\160\157\163\151\164\157\162\171\056\150\164\155\000
\060\012\006\010\052\206\110\316\075\004\003\003\003\151\000\060
\146\002\061\000\241\300\111\104\135\062\125\047\314\076\220\156
\045\042\235\044\133\233\121\065\307\221\111\111\052\243\371\157
\117\034\315\335\234\341\265\127\311\236\302\042\105\233\006\025
\160\034\105\277\002\061\000\305\323\050\353\162\307\076\260\254
\047\011\177\142\075\140\171\345\222\361\105\052\271\245\002\344
\140\273\376\172\053\234\140\247\265\231\024\362\260\276\360\273
\005\226\126\126\217\301\150
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Microsoft ECC Product Root Certificate Authority 2018"
Issuer: CN=Microsoft ECC Product Root Certificate Authority 2018,O=Microsoft
Corporation,L=Redmond,ST=Washington,C=US
Serial Number:14:98:26:66:dc:7c:cd:8f:40:53:67:7b:b9:99:ec:85
Subject: CN=Microsoft ECC Product Root Certificate Authority 2018,O=Microsoft
Corporation,L=Redmond,ST=Washington,C=US
Not Valid Before: Tue Feb 27 20:42:08 2018
Not Valid After: Fri Feb 27 20:50:46 2043
Fingerprint (MD5): 1f:12:4e:de:13:e0:6a:02:3c:d7:c0:9a:4f:48:c3:d6
Fingerprint (SHA1): 06:f1:aa:33:0b:92:7b:75:3a:40:e6:8c:df:22:e3:4b:cb:ef:33:52
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft ECC Product Root Certificate Authority 2018"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\006\361\252\063\013\222\173\165\072\100\346\214\337\042\343\113
\313\357\063\122
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\037\022\116\336\023\340\152\002\074\327\300\232\117\110\303\326
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\127\141\163\150\151
\156\147\164\157\156\061\020\060\016\006\003\125\004\007\023\007
\122\145\144\155\157\156\144\061\036\060\034\006\003\125\004\012
\023\025\115\151\143\162\157\163\157\146\164\040\103\157\162\160
\157\162\141\164\151\157\156\061\076\060\074\006\003\125\004\003
\023\065\115\151\143\162\157\163\157\146\164\040\105\103\103\040
\120\162\157\144\165\143\164\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\070
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\024\230\046\146\334\174\315\217\100\123\147\173\271\231
\354\205
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "emSign Root CA - G2"
Issuer: CN=emSign Root CA - G2,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
Serial Number:86:4d:bf:0f:e3:5e:d7:7d:8e:d8
Subject: CN=emSign Root CA - G2,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
Not Valid Before: Sun Feb 18 18:30:00 2018
Not Valid After: Wed Feb 18 18:30:00 2043
Fingerprint (MD5): 63:ac:61:e5:f7:da:aa:05:80:53:bd:e4:ab:fd:bb:30
Fingerprint (SHA1): 1e:65:77:b9:cf:70:d0:17:ca:e1:bd:a1:35:1d:47:25:a9:73:c0:6d
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\147\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156

\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032\006
\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157
\164\040\103\101\040\055\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\147\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032\006
\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157
\164\040\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\000\206\115\277\017\343\136\327\175\216\330
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\225\060\202\003\175\240\003\002\001\002\002\013\000
\206\115\277\017\343\136\327\175\216\330\060\015\006\011\052\206
\110\206\367\015\001\001\014\005\000\060\147\061\013\060\011\006
\003\125\004\006\023\002\111\116\061\023\060\021\006\003\125\004
\013\023\012\145\155\123\151\147\156\040\120\113\111\061\045\060
\043\006\003\125\004\012\023\034\145\115\165\144\150\162\141\040
\124\145\143\150\156\157\154\157\147\151\145\163\040\114\151\155
\151\164\145\144\061\034\060\032\006\003\125\004\003\023\023\145
\155\123\151\147\156\040\122\157\157\164\040\103\101\040\055\040
\107\062\060\036\027\015\061\070\060\062\061\070\061\070\063\060
\060\060\132\027\015\064\063\060\062\061\070\061\070\063\060\060
\060\132\060\147\061\013\060\011\006\003\125\004\006\023\002\111
\116\061\023\060\021\006\003\125\004\013\023\012\145\155\123\151
\147\156\040\120\113\111\061\045\060\043\006\003\125\004\012\023
\034\145\115\165\144\150\162\141\040\124\145\143\150\156\157\154
\157\147\151\145\163\040\114\151\155\151\164\145\144\061\034\060
\032\006\003\125\004\003\023\023\145\155\123\151\147\156\040\122
\157\157\164\040\103\101\040\055\040\107\062\060\202\002\042\060
\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202
\002\017\000\060\202\002\012\002\202\002\001\000\303\160\030\205
\226\332\101\337\034\257\254\135\063\160\304\135\073\053\342\025
\311\044\356\310\123\066\257\133\364\323\154\024\175\307\123\373
\073\071\070\316\120\154\306\005\026\167\235\135\002\072\200\041
\113\262\062\253\161\247\243\343\306\155\337\263\262\021\275\342
\150\373\073\012\303\370\220\014\223\303\062\207\365\246\136\352
\005\330\036\262\152\343\117\331\124\303\134\101\122\066\075\302
\051\343\100\177\110\003\166\201\106\176\145\245\055\040\353\325
\214\114\166\353\367\233\065\245\321\042\313\141\226\103\206\375

\306\201\371\004\160\017\015\155\227\275\367\361\231\157\320\315
\250\114\025\062\340\035\336\355\321\217\346\230\027\037\275\114
\216\241\317\012\203\150\373\033\375\177\103\123\005\077\241\120
\066\274\207\314\024\265\301\220\253\320\203\170\224\351\215\147
\003\331\263\366\000\307\125\033\252\025\244\300\024\171\114\350
\160\054\240\226\373\105\165\103\043\202\014\101\157\016\052\205
\253\265\035\163\306\360\353\175\207\002\373\144\310\274\266\104
\363\256\365\010\307\026\374\033\322\305\377\271\012\170\041\073
\264\146\132\127\060\323\235\173\242\176\135\346\261\036\004\254
\173\020\340\376\345\126\355\200\042\062\000\206\260\027\241\347
\103\211\326\373\244\307\037\355\060\001\166\266\024\117\122\150
\033\360\042\053\342\175\214\356\206\116\067\200\014\076\013\060
\064\201\146\021\314\270\022\277\074\237\340\322\101\201\267\357
\302\324\277\277\035\104\163\102\022\144\062\124\147\063\244\157
\136\200\255\174\252\051\112\131\354\346\332\331\231\070\275\357
\125\243\156\177\074\101\163\372\326\121\251\004\045\017\300\050
\354\356\272\116\142\364\224\046\322\076\225\306\305\373\176\352
\220\212\216\135\211\025\117\167\056\244\064\251\303\341\374\366
\101\155\217\221\212\143\345\347\313\202\361\143\355\310\274\062
\021\213\047\172\223\055\103\076\076\365\334\062\064\312\253\336
\022\233\010\257\160\064\075\334\056\311\102\073\011\055\143\203
\103\147\030\124\372\137\034\253\323\020\176\124\073\174\334\122
\130\133\313\365\352\115\251\155\244\070\221\134\100\335\245\335
\137\327\131\143\045\121\325\056\175\050\316\371\002\003\001\000
\001\243\102\060\100\060\035\006\003\125\035\016\004\026\004\024
\355\354\115\105\141\030\050\347\263\043\050\021\034\115\245\047
\015\136\354\364\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\006\060\017\006\003\125\035\023\001\001\377\004\005
\060\003\001\001\377\060\015\006\011\052\206\110\206\367\015\001
\001\014\005\000\003\202\002\001\000\010\120\277\212\124\040\360
\244\302\124\034\105\045\157\354\153\072\046\221\055\044\065\206
\304\041\230\070\007\172\033\253\013\011\355\045\375\363\077\031
\201\374\301\247\075\047\140\051\160\300\230\326\154\123\165\107
\154\330\362\220\204\242\336\277\166\011\200\361\126\352\320\154
\141\300\363\071\140\337\322\146\253\215\311\022\061\073\167\024
\166\120\034\301\377\257\111\354\335\124\047\375\300\354\357\110
\001\167\253\106\271\226\073\333\165\263\111\066\227\322\161\005
\151\355\105\035\346\300\154\146\117\043\134\355\112\103\370\050
\375\127\377\030\063\347\254\201\146\306\220\010\030\115\354\202
\163\274\224\013\375\027\065\032\001\353\257\354\165\236\343\274
\115\364\236\376\155\014\305\367\174\207\270\205\300\010\364\313
\245\001\341\203\154\314\277\220\273\004\006\356\014\167\333\217
\120\256\333\336\031\363\175\262\205\047\301\163\070\226\032\311
\016\276\135\336\263\141\034\037\053\133\113\327\075\077\355\063
\062\231\032\357\061\202\324\121\353\274\266\377\026\207\156\037
\316\223\171\233\164\102\066\172\245\312\145\067\072\032\304\071
\303\277\064\311\350\040\266\022\174\276\250\177\300\074\120\256
\125\113\371\377\010\360\027\341\317\233\303\356\247\140\021\217

\327\004\247\335\276\322\247\036\255\361\332\160\332\271\204\307
\206\145\326\300\375\334\335\121\037\371\317\234\327\167\020\044
\236\137\046\161\361\233\321\343\015\111\065\320\232\140\177\213
\200\036\160\331\353\357\153\230\217\071\132\135\101\230\067\263
\153\157\245\350\270\155\051\236\035\077\004\033\126\132\235\024
\112\022\017\245\141\000\252\316\321\044\030\372\373\126\124\141
\166\170\071\272\302\303\336\266\017\030\115\332\235\175\037\034
\075\056\333\224\121\302\352\251\063\353\025\166\057\300\356\055
\242\350\373\050\231\300\221\244\324\175\161\235\021\241\125\264
\130\240\324\100\067\321\154\311\143\145\365\274\004\073\205\131
\347\210\050\340\151\160\006\252\073\024\352\311\045\064\317\147
\304\074\171\254\120\202\010\113\143\364\250\174\120\170\306\053
\144\052\200\376\144\302\013\155\214\340\051\100\306\202\241\354
\314\174\256\012\017\265\251\071\165
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "emSign Root CA - G2"
Issuer: CN=emSign Root CA - G2,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
Serial Number:86:4d:bf:0f:e3:5e:d7:7d:8e:d8
Subject: CN=emSign Root CA - G2,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
Not Valid Before: Sun Feb 18 18:30:00 2018
Not Valid After: Wed Feb 18 18:30:00 2043
Fingerprint (MD5): 63:ac:61:e5:f7:da:aa:05:80:53:bd:e4:ab:fd:bb:30
Fingerprint (SHA1): 1e:65:77:b9:cf:70:d0:17:ca:e1:bd:a1:35:1d:47:25:a9:73:c0:6d
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\036\145\167\271\317\160\320\027\312\341\275\241\065\035\107\045
\251\163\300\155
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\143\254\141\345\367\332\252\005\200\123\275\344\253\375\273\060
END
CKA_ISSUER MULTILINE_OCTAL
\060\147\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032\006
\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157
\164\040\103\101\040\055\040\107\062

```
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\000\206\115\277\017\343\136\327\175\216\330
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "emSign Root CA - C2"
# Issuer: CN=emSign Root CA - C2,O=eMudhra Inc,OU=emSign PKI,C=US
# Serial Number:2f:0a:b7:6b:0d:cb:4a:af:27:58
# Subject: CN=emSign Root CA - C2,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After: Wed Feb 18 18:30:00 2043
# Fingerprint (MD5): eb:24:3b:fa:70:63:c8:e1:cd:5f:0e:ea:c8:97:2f:21
# Fingerprint (SHA1): bc:a2:18:80:74:c3:14:7e:16:f4:c4:8c:59:10:a8:9e:f7:52:f4:79
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - C2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\126\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\034\060\032\006\003
\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157\164
\040\103\101\040\055\040\103\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\126\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\034\060\032\006\003
\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157\164
\040\103\101\040\055\040\103\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\057\012\267\153\015\313\112\257\047\130
END
CKA_VALUE MULTILINE_OCTAL
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\012\267\153\015\313\112\257\047\130\060\015\006\011\052\206\110
\206\367\015\001\001\014\005\000\060\126\061\013\060\011\006\003
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\125\004\006\023\002\125\123\061\023\060\021\006\003\125\004\013
\023\012\145\155\123\151\147\156\040\120\113\111\061\024\060\022
\006\003\125\004\012\023\013\145\115\165\144\150\162\141\040\111
\156\143\061\034\060\032\006\003\125\004\003\023\023\145\155\123
\151\147\156\040\122\157\157\164\040\103\101\040\055\040\103\062
\060\036\027\015\061\070\060\062\061\070\061\070\063\060\060\060
\132\027\015\064\063\060\062\061\070\061\070\063\060\060\060\132
\060\126\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\034\060\032\006\003
\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157\164
\040\103\101\040\055\040\103\062\060\202\002\042\060\015\006\011
\052\206\110\206\367\015\001\001\001\005\000\003\202\002\017\000
\060\202\002\012\002\202\002\001\000\214\175\175\145\003\344\333
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\040\130\356\055\350\056\374\176\010\337\113\270\327\371\316\023
\212\162\063\022\253\226\160\217\263\213\107\335\341\047\074\064
\067\373\044\343\151\333\265\126\137\112\260\121\212\263\054\064
\102\267\353\073\316\222\334\177\035\144\313\114\325\040\230\372
\057\116\256\077\042\267\220\212\375\371\200\054\255\130\376\337
\333\255\233\247\266\060\024\054\104\333\055\110\215\337\011\006
\000\032\372\020\115\017\037\120\266\256\116\243\126\151\200\044
\065\201\136\350\165\007\035\003\351\332\355\124\153\115\050\164
\305\342\017\232\021\027\022\334\016\161\200\160\115\110\377\321
\075\230\260\235\222\010\027\212\066\024\232\047\050\357\345\360
\145\341\150\076\033\332\351\342\011\346\235\067\056\335\303\273
\225\267\021\301\321\321\302\146\231\215\151\311\340\067\350\226
\227\051\144\115\063\322\021\215\203\025\064\047\051\342\070\101
\332\322\030\211\237\213\126\117\033\301\017\177\325\315\267\267
\031\257\336\357\173\265\246\145\127\155\215\027\213\155\113\132
\252\334\237\214\072\235\050\031\102\301\316\222\237\107\035\052
\031\132\233\076\351\020\064\140\043\070\262\015\360\240\315\100
\334\333\107\130\200\227\147\174\037\343\022\242\047\001\243\200
\042\167\304\343\055\147\015\277\217\050\011\142\371\335\232\305
\004\304\303\215\242\000\351\372\306\326\336\010\245\271\307\151
\320\073\250\042\111\173\152\251\044\336\247\331\344\012\001\111
\372\122\044\003\034\373\022\250\320\145\161\110\120\341\217\364
\143\111\224\346\270\041\233\143\201\366\265\320\113\121\133\324
\224\102\174\223\015\234\222\046\344\005\001\333\355\221\133\072
\271\116\014\373\111\264\241\243\303\154\146\115\024\155\011\305
\305\310\252\103\333\250\125\060\054\053\136\022\223\332\006\361
\015\363\176\303\064\361\307\117\241\026\364\132\122\031\222\124
\172\230\240\373\057\311\307\377\067\306\273\303\310\046\377\170
\030\140\175\105\237\124\340\016\275\257\167\217\233\057\014\276
\274\337\067\021\312\264\176\254\277\002\003\001\000\001\243\102
\060\100\060\035\006\003\125\035\016\004\026\004\024\263\367\212

\244\326\017\210\000\131\350\121\027\117\325\176\354\206\042\201
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\006\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001
\001\377\060\015\006\011\052\206\110\206\367\015\001\001\014\005
\000\003\202\002\001\000\064\045\246\045\214\321\313\366\235\235
\007\346\065\154\006\255\061\332\256\266\103\102\360\250\004\354
\010\133\362\271\276\340\304\320\262\265\033\250\003\313\055\230
\363\204\273\371\140\360\210\061\217\201\110\216\214\241\042\265
\224\127\034\242\055\116\315\243\203\376\132\061\024\073\005\023
\304\212\144\020\353\157\031\104\075\176\043\245\160\141\355\041
\220\315\006\126\152\355\152\144\265\160\061\171\136\171\104\363
\354\242\275\272\247\141\115\000\304\105\175\224\041\322\302\327
\204\250\044\362\053\245\111\050\040\253\037\036\316\003\362\173
\255\305\152\046\004\213\207\077\167\064\143\334\163\202\236\306
\142\301\226\124\323\147\137\345\212\115\026\074\122\301\233\304
\343\127\043\032\233\053\245\143\037\100\122\066\263\235\321\155
\345\351\343\271\122\003\026\004\340\334\343\004\123\036\370\114
\005\270\113\336\004\042\101\020\001\371\256\366\056\336\230\266
\242\273\011\343\156\023\251\141\020\127\133\102\260\051\020\317
\346\052\374\351\032\227\274\207\002\102\203\170\345\334\077\272
\015\340\017\223\165\167\066\245\332\261\271\120\247\004\355\021
\231\154\366\046\221\222\111\342\143\211\071\077\070\374\021\260
\363\126\267\001\277\051\162\364\342\215\255\153\170\342\076\222
\156\040\045\155\130\060\034\365\035\332\270\021\040\046\136\153
\112\024\146\005\333\063\033\102\346\316\301\356\144\360\205\111
\200\265\345\020\103\010\340\154\153\306\303\104\237\051\004\125
\066\132\057\302\125\160\200\010\113\232\276\012\057\170\016\005
\153\226\355\337\312\064\075\154\154\004\377\214\246\207\002\165
\133\103\062\254\320\207\034\275\042\210\112\271\165\200\032\267
\254\240\213\312\016\015\361\026\116\253\004\352\343\175\134\011
\172\134\042\377\020\042\262\210\307\074\225\120\277\325\265\315
\122\050\036\237\204\102\017\370\061\000\266\324\326\310\137\144
\150\212\200\176\127\170\112\343\177\133\377\016\335\171\117\061
\330\317\034\227\123\206\322\163\337\156\160\021\227\221\217\063
\273\311\202\056\073\322\073\150\341\047\214\203\241\314\001\155
\304\201\276\172\265\007\015\057\002\075\123\311\231\234\333\321
\201\103\053\220\010\013
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "emSign Root CA - C2"
Issuer: CN=emSign Root CA - C2,O=eMudhra Inc,OU=emSign PKI,C=US
Serial Number:2f:0a:b7:6b:0d:cb:4a:af:27:58
Subject: CN=emSign Root CA - C2,O=eMudhra Inc,OU=emSign PKI,C=US
Not Valid Before: Sun Feb 18 18:30:00 2018

Not Valid After: Wed Feb 18 18:30:00 2043
Fingerprint (MD5): eb:24:3b:fa:70:63:c8:e1:cd:5f:0e:ea:c8:97:2f:21
Fingerprint (SHA1): bc:a2:18:80:74:c3:14:7e:16:f4:c4:8c:59:10:a8:9e:f7:52:f4:79
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - C2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\274\242\030\200\164\303\024\176\026\364\304\214\131\020\250\236
\367\122\364\171
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\353\044\073\372\160\143\310\341\315\137\016\352\310\227\057\041
END
CKA_ISSUER MULTILINE_OCTAL
\060\126\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\034\060\032\006\003
\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157\164
\040\103\101\040\055\040\103\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\057\012\267\153\015\313\112\257\047\130
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Microsoft ECC TS Root Certificate Authority 2018"
Issuer: CN=Microsoft ECC TS Root Certificate Authority 2018,O=Microsoft
Corporation,L=Redmond,ST=Washington,C=US
Serial Number:15:38:75:e1:64:7e:d1:b0:47:b4:ef:af:41:12:82:45
Subject: CN=Microsoft ECC TS Root Certificate Authority 2018,O=Microsoft
Corporation,L=Redmond,ST=Washington,C=US
Not Valid Before: Tue Feb 27 20:51:34 2018
Not Valid After: Fri Feb 27 21:00:12 2043
Fingerprint (MD5): 37:94:29:58:86:2a:06:e6:bb:cf:d7:ab:59:c7:f2:3c
Fingerprint (SHA1): 31:f9:fc:8b:a3:80:59:86:b7:21:ea:72:95:c6:5b:3a:44:53:42:74
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft ECC TS Root Certificate Authority 2018"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\201\217\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\127\141\163\150\151
\156\147\164\157\156\061\020\060\016\006\003\125\004\007\023\007
\122\145\144\155\157\156\144\061\036\060\034\006\003\125\004\012
\023\025\115\151\143\162\157\163\157\146\164\040\103\157\162\160
\157\162\141\164\151\157\156\061\071\060\067\006\003\125\004\003
\023\060\115\151\143\162\157\163\157\146\164\040\105\103\103\040
\124\123\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\062\060
\061\070
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\217\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\127\141\163\150\151
\156\147\164\157\156\061\020\060\016\006\003\125\004\007\023\007
\122\145\144\155\157\156\144\061\036\060\034\006\003\125\004\012
\023\025\115\151\143\162\157\163\157\146\164\040\103\157\162\160
\157\162\141\164\151\157\156\061\071\060\067\006\003\125\004\003
\023\060\115\151\143\162\157\163\157\146\164\040\105\103\103\040
\124\123\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\062\060
\061\070
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
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\202\105
END
CKA_VALUE MULTILINE_OCTAL
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\070\165\341\144\176\321\260\107\264\357\257\101\022\202\105\060
\012\006\010\052\206\110\316\075\004\003\003\060\201\217\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\023\060\021\006
\003\125\004\010\023\012\127\141\163\150\151\156\147\164\157\156
\061\020\060\016\006\003\125\004\007\023\007\122\145\144\155\157
\156\144\061\036\060\034\006\003\125\004\012\023\025\115\151\143
\162\157\163\157\146\164\040\103\157\162\160\157\162\141\164\151
\157\156\061\071\060\067\006\003\125\004\003\023\060\115\151\143
\162\157\163\157\146\164\040\105\103\103\040\124\123\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\145\040\101
\165\164\150\157\162\151\164\171\040\062\060\061\070\060\036\027
\015\061\070\060\062\062\067\062\060\065\061\063\064\132\027\015
\064\063\060\062\062\067\062\061\060\060\061\062\132\060\201\217
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\023\060
\021\006\003\125\004\010\023\012\127\141\163\150\151\156\147\164
\157\156\061\020\060\016\006\003\125\004\007\023\007\122\145\144
\155\157\156\144\061\036\060\034\006\003\125\004\012\023\025\115

\151\143\162\157\163\157\146\164\040\103\157\162\160\157\162\141
\164\151\157\156\061\071\060\067\006\003\125\004\003\023\060\115
\151\143\162\157\163\157\146\164\040\105\103\103\040\124\123\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\145
\040\101\165\164\150\157\162\151\164\171\040\062\060\061\070\060
\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201
\004\000\042\003\142\000\004\336\315\273\160\040\361\045\040\264
\224\350\327\264\073\017\156\207\335\253\254\317\115\100\057\201
\063\153\131\011\030\326\207\015\046\043\234\264\215\225\235\166
\237\245\271\006\102\346\255\066\262\304\263\256\172\074\010\325
\313\235\072\136\105\041\154\013\343\040\365\233\302\335\104\063
\343\102\271\352\362\050\102\222\252\376\014\007\312\212\023\231
\073\142\000\355\332\363\065\243\201\274\060\201\271\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\206\060\017\006
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\035
\006\003\125\035\016\004\026\004\024\350\107\310\102\232\260\235
\256\157\013\050\073\230\025\217\343\261\350\200\262\060\020\006
\011\053\006\001\004\001\202\067\025\001\004\003\002\001\000\060
\145\006\003\125\035\040\004\136\060\134\060\006\006\004\125\035
\040\000\060\122\006\014\053\006\001\004\001\202\067\114\203\175
\001\001\060\102\060\100\006\010\053\006\001\005\005\007\002\001
\026\064\150\164\164\160\072\057\057\167\167\167\056\155\151\143
\162\157\163\157\146\164\056\143\157\155\057\160\153\151\157\160
\163\057\104\157\143\163\057\122\145\160\157\163\151\164\157\162
\171\056\150\164\155\000\060\012\006\010\052\206\110\316\075\004
\003\003\003\147\000\060\144\002\060\024\206\120\300\046\032\353
\352\241\024\167\072\133\337\143\071\245\063\307\120\100\325\153
\065\153\017\264\337\175\126\271\341\245\235\170\031\202\241\103
\156\032\327\130\243\125\003\102\333\002\060\030\224\264\036\072
\215\144\372\014\047\033\207\023\112\322\267\072\000\224\306\362
\345\143\277\257\343\372\334\223\325\347\106\232\153\201\151\076
\002\337\121\015\217\050\161\101\211\221\057
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Microsoft ECC TS Root Certificate Authority 2018"
Issuer: CN=Microsoft ECC TS Root Certificate Authority 2018,O=Microsoft
Corporation,L=Redmond,ST=Washington,C=US
Serial Number:15:38:75:e1:64:7e:d1:b0:47:b4:ef:af:41:12:82:45
Subject: CN=Microsoft ECC TS Root Certificate Authority 2018,O=Microsoft
Corporation,L=Redmond,ST=Washington,C=US
Not Valid Before: Tue Feb 27 20:51:34 2018
Not Valid After: Fri Feb 27 21:00:12 2043
Fingerprint (MD5): 37:94:29:58:86:2a:06:e6:bb:cf:d7:ab:59:c7:f2:3c
Fingerprint (SHA1): 31:f9:fc:8b:a3:80:59:86:b7:21:ea:72:95:c6:5b:3a:44:53:42:74

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft ECC TS Root Certificate Authority 2018"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\061\371\374\213\243\200\131\206\267\041\352\162\225\306\133\072
\104\123\102\164
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\067\224\051\130\206\052\006\346\273\317\327\253\131\307\362\074
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\217\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\010\023\012\127\141\163\150\151
\156\147\164\157\156\061\020\060\016\006\003\125\004\007\023\007
\122\145\144\155\157\156\144\061\036\060\034\006\003\125\004\012
\023\025\115\151\143\162\157\163\157\146\164\040\103\157\162\160
\157\162\141\164\151\157\156\061\071\060\067\006\003\125\004\003
\023\060\115\151\143\162\157\163\157\146\164\040\105\103\103\040
\124\123\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\062\060
\061\070
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\025\070\165\341\144\176\321\260\107\264\357\257\101\022
\202\105
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "DigiCert CS ECC P384 Root G5"
Issuer: CN=DigiCert CS ECC P384 Root G5,O=DigiCert\, Inc.,C=US
Serial Number:03:69:8f:e7:12:d5:19:f3:ce:d0:fd:b7:b1:64:30:11
Subject: CN=DigiCert CS ECC P384 Root G5,O=DigiCert\, Inc.,C=US
Not Valid Before: Fri Jan 15 00:00:00 2021
Not Valid After: Sun Jan 14 23:59:59 2046
Fingerprint (MD5): dd:b4:30:09:e8:67:1f:45:a0:80:ec:9d:d9:b1:a1:54
Fingerprint (SHA1): 84:35:73:11:2a:3b:31:93:44:e5:e4:ec:ab:c9:f2:6c:7c:d5:4d:07
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert CS ECC P384 Root G5"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\045\060\043\006\003\125\004
\003\023\034\104\151\147\151\103\145\162\164\040\103\123\040\105
\103\103\040\120\063\070\064\040\122\157\157\164\040\107\065
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\045\060\043\006\003\125\004
\003\023\034\104\151\147\151\103\145\162\164\040\103\123\040\105
\103\103\040\120\063\070\064\040\122\157\157\164\040\107\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\003\151\217\347\022\325\031\363\316\320\375\267\261\144
\060\021
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\026\060\202\001\235\240\003\002\001\002\002\020\003
\151\217\347\022\325\031\363\316\320\375\267\261\144\060\021\060
\012\006\010\052\206\110\316\075\004\003\003\060\115\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\027\060\025\006\003
\125\004\012\023\016\104\151\147\151\103\145\162\164\054\040\111
\156\143\056\061\045\060\043\006\003\125\004\003\023\034\104\151
\147\151\103\145\162\164\040\103\123\040\105\103\103\040\120\063
\070\064\040\122\157\157\164\040\107\065\060\036\027\015\062\061
\060\061\061\065\060\060\060\060\060\060\132\027\015\064\066\060
\061\061\064\062\063\065\071\065\071\132\060\115\061\013\060\011
\006\003\125\004\006\023\002\125\123\061\027\060\025\006\003\125
\004\012\023\016\104\151\147\151\103\145\162\164\054\040\111\156
\143\056\061\045\060\043\006\003\125\004\003\023\034\104\151\147
\151\103\145\162\164\040\103\123\040\105\103\103\040\120\063\070
\064\040\122\157\157\164\040\107\065\060\166\060\020\006\007\052
\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000
\004\177\024\255\205\266\227\375\002\041\065\115\140\350\070\223
\223\233\075\005\020\155\257\323\376\357\372\273\373\163\231\363
\354\062\022\215\307\150\270\213\336\211\242\210\124\167\215\273
\041\176\063\225\126\226\011\350\325\214\241\004\270\233\156\031
\000\142\350\102\050\246\130\067\204\031\125\046\173\063\067\147
\362\232\162\255\241\256\256\000\102\074\034\176\270\172\236\041
\234\243\102\060\100\060\035\006\003\125\035\016\004\026\004\024
\360\214\230\161\071\070\145\302\072\033\246\027\146\035\310\355
\145\336\222\066\060\016\006\003\125\035\017\001\001\377\004\004
\003\002\001\206\060\017\006\003\125\035\023\001\001\377\004\005
\060\003\001\001\377\060\012\006\010\052\206\110\316\075\004\003
\003\003\147\000\060\144\002\060\043\157\341\000\031\046\120\344

\106\040\145\213\067\247\317\353\006\341\314\062\311\052\241\354
\062\015\163\242\036\002\034\065\141\052\116\151\253\071\167\355
\227\210\300\175\153\352\211\335\002\060\103\361\321\130\243\165
\076\206\233\266\125\021\213\027\367\075\376\012\151\305\177\116
\306\165\033\132\224\313\352\021\021\306\010\042\210\336\320\172
\242\245\171\350\343\041\247\315\023\263
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "DigiCert CS ECC P384 Root G5"
Issuer: CN=DigiCert CS ECC P384 Root G5,O=DigiCert\, Inc.,C=US
Serial Number:03:69:8f:e7:12:d5:19:f3:ce:d0:fd:b7:b1:64:30:11
Subject: CN=DigiCert CS ECC P384 Root G5,O=DigiCert\, Inc.,C=US
Not Valid Before: Fri Jan 15 00:00:00 2021
Not Valid After: Sun Jan 14 23:59:59 2046
Fingerprint (MD5): dd:b4:30:09:e8:67:1f:45:a0:80:ec:9d:d9:b1:a1:54
Fingerprint (SHA1): 84:35:73:11:2a:3b:31:93:44:e5:e4:ec:ab:c9:f2:6c:7c:d5:4d:07
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert CS ECC P384 Root G5"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\204\065\163\021\052\073\061\223\104\345\344\354\253\311\362\154
\174\325\115\007
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\335\264\060\011\350\147\037\105\240\200\354\235\331\261\241\124
END
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\045\060\043\006\003\125\004
\003\023\034\104\151\147\151\103\145\162\164\040\103\123\040\105
\103\103\040\120\063\070\064\040\122\157\157\164\040\107\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\003\151\217\347\022\325\031\363\316\320\375\267\261\144
\060\021
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "DigiCert CS RSA4096 Root G5"
Issuer: CN=DigiCert CS RSA4096 Root G5,O=DigiCert\, Inc.,C=US
Serial Number:06:ce:e1:31:be:6d:55:c8:07:f7:c0:c7:fb:44:e6:20
Subject: CN=DigiCert CS RSA4096 Root G5,O=DigiCert\, Inc.,C=US
Not Valid Before: Fri Jan 15 00:00:00 2021
Not Valid After: Sun Jan 14 23:59:59 2046
Fingerprint (MD5): a7:33:ed:bf:1b:5d:e1:19:c4:91:c9:4a:ea:f7:6d:c7
Fingerprint (SHA1): 5e:ee:d8:6f:a3:7c:67:52:30:64:2f:55:c8:4d:db:f6:7c:d3:3c:80
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert CS RSA4096 Root G5"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\114\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\044\060\042\006\003\125\004
\003\023\033\104\151\147\151\103\145\162\164\040\103\123\040\122
\123\101\064\060\071\066\040\122\157\157\164\040\107\065
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\044\060\042\006\003\125\004
\003\023\033\104\151\147\151\103\145\162\164\040\103\123\040\122
\123\101\064\060\071\066\040\122\157\157\164\040\107\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\006\316\341\061\276\155\125\310\007\367\300\307\373\104
\346\040
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\144\060\202\003\114\240\003\002\001\002\002\020\006
\316\341\061\276\155\125\310\007\367\300\307\373\104\346\040\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\114
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\027\060
\025\006\003\125\004\012\023\016\104\151\147\151\103\145\162\164
\054\040\111\156\143\056\061\044\060\042\006\003\125\004\003\023
\033\104\151\147\151\103\145\162\164\040\103\123\040\122\123\101
\064\060\071\066\040\122\157\157\164\040\107\065\060\036\027\015
\062\061\060\061\061\065\060\060\060\060\060\060\132\027\015\064
\066\060\061\061\064\062\063\065\071\065\071\132\060\114\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\027\060\025\006
\003\125\004\012\023\016\104\151\147\151\103\145\162\164\054\040
\111\156\143\056\061\044\060\042\006\003\125\004\003\023\033\104

\151\147\151\103\145\162\164\040\103\123\040\122\123\101\064\060
\071\066\040\122\157\157\164\040\107\065\060\202\002\042\060\015
\006\011\052\206\110\206\367\015\001\001\001\005\000\003\202\002
\017\000\060\202\002\012\002\202\002\001\000\266\063\163\200\330
\142\003\160\024\054\021\034\071\136\174\256\174\203\206\035\376
\046\057\114\044\255\213\352\203\137\251\274\075\133\374\013\230
\114\002\107\060\354\342\376\354\350\064\133\146\136\277\073\327
\054\246\045\377\214\131\263\337\352\332\174\051\331\106\120\162
\010\035\156\321\033\012\335\037\315\231\211\372\017\017\163\304
\341\234\035\165\062\315\157\227\332\052\152\225\262\154\311\011
\320\352\013\173\175\027\006\111\231\357\326\336\340\310\123\324
\256\306\167\361\206\273\043\034\270\300\337\131\367\216\175\321
\357\202\346\046\213\132\070\265\377\165\325\262\331\117\011\363
\067\210\120\332\021\244\212\024\024\321\123\004\000\175\363\152
\104\030\376\120\160\062\007\034\250\232\016\072\035\305\012\037
\156\013\046\151\267\074\242\127\160\054\206\372\114\156\225\251
\130\103\271\254\022\326\377\077\355\327\103\027\153\114\316\236
\304\220\253\377\372\020\120\232\243\220\127\326\347\214\020\256
\237\026\032\317\065\035\177\327\166\355\212\234\065\247\050\270
\247\135\041\374\060\067\335\336\010\031\117\025\306\347\246\332
\220\107\216\367\224\123\114\216\123\002\276\375\231\345\352\206
\320\257\003\002\323\233\252\223\361\253\050\216\040\001\377\114
\373\314\267\051\100\365\207\244\022\023\005\037\103\156\327\121
\120\237\070\264\040\355\027\011\022\217\314\271\031\257\237\315
\276\151\021\323\257\125\020\155\027\206\171\226\122\306\262\000
\235\345\257\070\260\065\364\210\153\217\016\004\075\174\356\257
\315\323\152\020\112\306\315\206\312\042\075\241\112\134\373\016
\377\210\337\134\142\247\300\271\036\331\254\154\176\070\067\376
\167\223\045\302\205\212\117\265\067\006\132\006\201\024\361\316
\224\235\231\221\352\062\132\316\147\075\156\004\146\255\014\117
\055\243\056\367\236\365\170\235\367\012\375\176\217\343\102\212
\125\226\274\361\237\067\055\374\236\137\225\376\214\030\033\374
\216\375\113\220\257\327\003\150\022\143\254\342\223\247\242\313
\004\345\117\144\316\003\372\306\024\237\331\213\350\314\324\142
\214\153\344\000\054\031\237\032\006\306\061\201\124\373\123\044
\232\257\125\231\272\235\165\256\270\302\335\002\003\001\000\001
\243\102\060\100\060\035\006\003\125\035\016\004\026\004\024\150
\001\223\261\322\112\100\102\151\224\106\054\034\132\210\251\045
\264\107\117\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\206\060\017\006\003\125\035\023\001\001\377\004\005\060
\003\001\001\377\060\015\006\011\052\206\110\206\367\015\001\001
\014\005\000\003\202\002\001\000\222\374\356\270\002\171\027\002
\121\175\041\305\111\147\247\244\361\250\044\070\353\014\150\352
\132\102\153\234\364\163\301\151\112\055\263\067\005\120\102\230
\222\236\006\171\054\056\006\231\366\357\337\053\240\315\263\222
\001\203\265\240\313\047\265\074\043\032\230\111\242\354\055\231
\245\131\103\254\322\261\223\326\127\327\034\274\223\326\306\100
\341\263\157\031\125\267\023\327\345\103\063\244\265\253\313\332

\301\061\144\015\164\326\054\355\303\215\156\353\273\257\031\107
\141\141\055\300\364\005\271\157\170\334\072\367\102\100\145\123
\221\275\231\015\223\222\124\246\251\067\131\053\233\313\231\306
\274\075\367\004\204\360\224\063\035\017\202\132\071\313\056\105
\303\050\031\243\262\233\230\310\374\061\153\140\217\366\351\206
\050\274\340\074\175\164\135\026\211\133\151\044\307\020\213\304
\113\273\066\117\324\131\077\303\260\244\221\231\370\056\321\112
\001\235\365\210\022\357\277\132\021\152\131\117\131\153\132\147
\363\217\264\023\017\300\330\057\075\050\162\252\031\177\021\175
\152\133\237\225\347\137\267\224\117\361\076\241\132\377\055\314
\235\337\047\167\217\062\163\034\147\012\166\363\372\134\261\277
\274\035\275\014\050\233\262\307\027\147\013\063\017\303\275\066
\334\373\272\102\013\253\355\204\303\142\326\204\026\251\261\007
\153\251\156\356\306\317\346\260\104\051\302\360\263\141\200\052
\213\157\322\024\134\045\207\124\144\363\244\114\301\241\370\247
\153\352\376\352\072\374\171\333\016\217\334\306\363\311\324\154
\336\351\203\241\216\035\042\354\311\072\262\000\173\334\073\247
\102\032\177\334\213\251\021\075\216\247\300\040\157\135\011\135
\103\104\346\217\146\314\251\133\007\361\357\233\172\016\263\124
\341\224\375\016\054\306\223\327\125\375\161\230\065\270\011\112
\377\306\051\050\054\366\122\055\333\024\030\222\047\342\026\176
\214\312\324\141\276\202\207\221\353\230\067\077\277\137\135\167
\077\064\254\033\070\103\253\150\162\231\062\036\072\032\031\245
\243\070\114\043\327\243\347\314\325\052\222\027\220\013\132\113
\275\026\275\373\206\152\342\211\231\354\344\240\125\030\311\243
\010\037\023\340\062\010\162\320
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "DigiCert CS RSA4096 Root G5"
Issuer: CN=DigiCert CS RSA4096 Root G5,O=DigiCert\, Inc.,C=US
Serial Number:06:ce:e1:31:be:6d:55:c8:07:f7:c0:c7:fb:44:e6:20
Subject: CN=DigiCert CS RSA4096 Root G5,O=DigiCert\, Inc.,C=US
Not Valid Before: Fri Jan 15 00:00:00 2021
Not Valid After: Sun Jan 14 23:59:59 2046
Fingerprint (MD5): a7:33:ed:bf:1b:5d:e1:19:c4:91:c9:4a:ea:f7:6d:c7
Fingerprint (SHA1): 5e:ee:d8:6f:a3:7c:67:52:30:64:2f:55:c8:4d:db:f6:7c:d3:3c:80
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert CS RSA4096 Root G5"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\136\356\330\157\243\174\147\122\060\144\057\125\310\115\333\366
\174\323\074\200

```
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\247\063\355\277\033\135\341\031\304\221\311\112\352\367\155\307
END
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\044\060\042\006\003\125\004
\003\023\033\104\151\147\151\103\145\162\164\040\103\123\040\122
\123\101\064\060\071\066\040\122\157\157\164\040\107\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\006\316\341\061\276\155\125\310\007\367\300\307\373\104
\346\040
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Microsoft Code Signing Only Certificate
# Certificate "DigiCert RSA4096 Root G5"
# Issuer: CN=DigiCert RSA4096 Root G5,O=DigiCert\, Inc.,C=US
# Serial Number:08:bf:a2:6f:9a:3f:33:65:a2:ac:f0:a6:38:c4:01:70
# Subject: CN=DigiCert RSA4096 Root G5,O=DigiCert\, Inc.,C=US
# Not Valid Before: Fri Jan 15 00:00:00 2021
# Not Valid After: Sun Jan 14 23:59:59 2046
# Fingerprint (MD5): 26:18:9c:6e:60:22:79:b6:8d:0f:65:4c:99:17:56:12
# Fingerprint (SHA1): 87:b8:e6:d3:8f:1a:39:cd:97:f0:4a:9e:17:4b:3c:9e:e7:ee:11:15
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert RSA4096 Root G5"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\111\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\041\060\037\006\003\125\004
\003\023\030\104\151\147\151\103\145\162\164\040\122\123\101\064
\060\071\066\040\122\157\157\164\040\107\065
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\111\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\041\060\037\006\003\125\004
\003\023\030\104\151\147\151\103\145\162\164\040\122\123\101\064
```

\060\071\066\040\122\157\157\164\040\107\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\010\277\242\157\232\077\063\145\242\254\360\246\070\304
\001\160
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\136\060\202\003\106\240\003\002\001\002\002\020\010
\277\242\157\232\077\063\145\242\254\360\246\070\304\001\160\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\111
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\027\060
\025\006\003\125\004\012\023\016\104\151\147\151\103\145\162\164
\054\040\111\156\143\056\061\041\060\037\006\003\125\004\003\023
\030\104\151\147\151\103\145\162\164\040\122\123\101\064\060\071
\066\040\122\157\157\164\040\107\065\060\036\027\015\062\061\060
\061\061\065\060\060\060\060\060\060\132\027\015\064\066\060\061
\061\064\062\063\065\071\065\071\132\060\111\061\013\060\011\006
\003\125\004\006\023\002\125\123\061\027\060\025\006\003\125\004
\012\023\016\104\151\147\151\103\145\162\164\054\040\111\156\143
\056\061\041\060\037\006\003\125\004\003\023\030\104\151\147\151
\103\145\162\164\040\122\123\101\064\060\071\066\040\122\157\157
\164\040\107\065\060\202\002\042\060\015\006\011\052\206\110\206
\367\015\001\001\001\005\000\003\202\002\017\000\060\202\002\012
\002\202\002\001\000\252\276\015\262\006\175\046\371\107\352\344
\033\347\102\151\270\231\302\271\356\044\261\106\220\313\131\044
\122\124\065\246\044\302\137\221\031\310\266\102\326\363\107\145
\225\144\347\205\145\147\251\256\174\000\117\340\170\003\120\255
\363\177\216\270\021\347\201\142\261\213\337\362\111\046\011\336
\017\026\274\332\050\233\241\310\227\057\223\220\332\040\052\343
\204\324\377\251\236\260\055\277\264\000\336\233\037\310\240\143
\123\150\205\157\115\205\306\252\143\371\215\262\065\166\142\164
\003\334\223\230\150\005\236\315\220\145\335\322\172\061\253\044
\055\155\100\056\220\077\143\154\054\353\372\036\200\124\215\171
\002\220\024\263\265\117\116\365\210\004\103\200\303\110\263\046
\057\254\121\225\062\125\045\057\101\226\260\126\241\010\073\334
\230\037\162\205\054\167\312\230\314\070\373\216\162\311\155\354
\005\354\355\115\267\074\133\024\120\205\335\227\373\131\367\220
\022\364\023\277\203\115\200\262\025\145\021\227\140\345\326\134
\346\004\265\120\346\161\063\266\040\223\251\150\000\070\316\111
\333\264\134\073\162\327\105\134\124\277\315\074\001\043\036\174
\326\370\151\054\245\000\012\154\062\110\264\336\160\055\072\023
\027\301\177\144\313\363\060\355\241\075\226\147\361\224\265\140
\154\133\151\150\365\202\063\011\242\266\331\363\205\262\156\240
\224\360\302\304\175\241\054\312\163\365\256\340\122\234\242\146
\346\003\316\352\337\355\030\324\271\143\213\367\350\377\373\263
\133\217\103\305\257\267\164\224\120\065\145\256\326\057\361\205
\217\123\241\160\364\215\062\135\274\226\303\036\302\004\004\234
\004\017\263\135\176\211\040\312\136\047\015\211\112\022\043\264

\366\304\335\330\037\370\150\263\066\370\036\274\306\367\204\266
\350\212\116\210\060\070\300\046\330\160\012\011\072\064\016\153
\202\022\226\034\057\346\236\255\330\161\065\201\261\214\006\156
\364\156\146\377\113\112\256\275\360\376\327\134\137\123\273\062
\074\315\142\321\024\240\051\037\020\336\251\162\117\261\255\144
\345\203\052\217\213\352\204\225\356\230\045\230\232\263\161\074
\301\247\120\362\254\102\142\061\302\241\220\306\356\342\267\212
\250\265\266\033\073\002\003\001\000\001\243\102\060\100\060\035
\006\003\125\035\016\004\026\004\024\142\155\267\221\117\304\352
\243\142\140\217\240\320\276\265\217\006\174\150\000\060\016\006
\003\125\035\017\001\001\377\004\004\003\002\001\206\060\017\006
\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060\015
\006\011\052\206\110\206\367\015\001\001\014\005\000\003\202\002
\001\000\141\350\373\047\155\326\342\270\263\011\257\252\360\261
\202\114\376\075\027\211\115\055\025\235\373\356\320\273\204\354
\204\165\333\103\023\336\214\237\307\051\357\207\164\313\023\160
\201\126\000\164\374\256\364\331\072\336\042\010\121\245\240\134
\202\146\266\173\114\251\332\217\253\254\034\101\226\146\326\235
\336\126\346\277\116\261\262\136\137\300\303\156\324\302\204\220
\365\175\261\272\026\321\051\212\310\235\351\317\320\307\031\073
\077\317\356\367\341\063\256\102\310\230\300\010\236\363\132\363
\337\324\053\073\216\250\050\126\031\307\116\167\074\045\124\334
\270\110\110\321\371\047\152\076\354\023\257\262\005\211\375\125
\137\363\175\216\015\234\011\135\054\212\176\205\316\370\341\277
\021\075\062\214\132\327\176\075\364\063\130\317\242\005\230\243
\263\373\316\211\277\375\302\026\335\156\334\210\111\015\013\240
\003\377\347\105\351\004\301\351\375\252\235\165\370\270\037\207
\203\331\353\071\323\132\247\313\230\254\023\211\000\374\157\225
\116\341\175\021\106\155\366\070\106\243\023\240\054\001\365\142
\317\277\034\120\221\047\164\135\267\354\107\174\320\321\165\313
\173\356\321\115\043\012\303\140\245\167\055\200\332\147\017\216
\153\166\007\360\246\017\352\204\256\036\171\277\010\212\332\011
\363\364\356\265\066\363\324\172\103\272\224\065\341\372\301\073
\033\226\231\244\127\143\353\265\250\202\367\255\370\167\327\166
\206\363\166\123\126\133\374\046\102\204\316\237\203\221\221\257
\364\276\160\025\200\245\330\350\151\261\330\221\124\270\031\262
\142\371\242\372\125\355\004\277\271\104\206\344\317\361\233\000
\277\021\017\276\265\164\044\121\377\167\064\143\354\110\043\016
\350\021\353\167\155\332\312\202\221\276\244\204\223\114\332\241
\376\314\006\204\350\041\350\124\272\346\323\035\143\075\302\132
\374\346\311\203\236\162\144\251\206\131\000\214\302\367\023\203
\266\320\244\061\306\254\221\216\173\244\042\126\023\306\165\307
\043\274\213\133\374\106\075\376\135\122\051\257\257\350\311\303
\166\113\350\253\107\002\362\232\015\323\054\210\200\007\206\300
\143\017\002\114\216\004\123\166\271\130\102\157\174\051\160\135
\277\047
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "DigiCert RSA4096 Root G5"
Issuer: CN=DigiCert RSA4096 Root G5,O=DigiCert\, Inc.,C=US
Serial Number:08:bf:a2:6f:9a:3f:33:65:a2:ac:f0:a6:38:c4:01:70
Subject: CN=DigiCert RSA4096 Root G5,O=DigiCert\, Inc.,C=US
Not Valid Before: Fri Jan 15 00:00:00 2021
Not Valid After: Sun Jan 14 23:59:59 2046
Fingerprint (MD5): 26:18:9c:6e:60:22:79:b6:8d:0f:65:4c:99:17:56:12
Fingerprint (SHA1): 87:b8:e6:d3:8f:1a:39:cd:97:f0:4a:9e:17:4b:3c:9e:e7:ee:11:15
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert RSA4096 Root G5"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\207\270\346\323\217\032\071\315\227\360\112\236\027\113\074\236
\347\356\021\025
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\046\030\234\156\140\042\171\266\215\017\145\114\231\027\126\022
END
CKA_ISSUER MULTILINE_OCTAL
\060\111\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\041\060\037\006\003\125\004
\003\023\030\104\151\147\151\103\145\162\164\040\122\123\101\064
\060\071\066\040\122\157\157\164\040\107\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\010\277\242\157\232\077\063\145\242\254\360\246\070\304
\001\160
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "DigiCert ECC P384 Root G5"
Issuer: CN=DigiCert ECC P384 Root G5,O=DigiCert\, Inc.,C=US
Serial Number:0d:f3:d9:37:65:a3:79:c5:95:66:ea:92:e2:24:4f:34
Subject: CN=DigiCert ECC P384 Root G5,O=DigiCert\, Inc.,C=US
Not Valid Before: Fri Jan 15 00:00:00 2021
Not Valid After: Sun Jan 14 23:59:59 2046
Fingerprint (MD5): 11:7f:85:ae:47:1f:51:61:6e:06:94:1e:6a:43:08:0b

Fingerprint (SHA1): d1:ee:b1:e8:c0:90:20:ba:b8:5d:3d:e2:7f:78:ee:33:a0:6c:ae:db
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert ECC P384 Root G5"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\042\060\040\006\003\125\004
\003\023\031\104\151\147\151\103\145\162\164\040\105\103\103\040
\120\063\070\064\040\122\157\157\164\040\107\065
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\042\060\040\006\003\125\004
\003\023\031\104\151\147\151\103\145\162\164\040\105\103\103\040
\120\063\070\064\040\122\157\157\164\040\107\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\015\363\331\067\145\243\171\305\225\146\352\222\342\044
\117\064
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\021\060\202\001\227\240\003\002\001\002\002\020\015
\363\331\067\145\243\171\305\225\146\352\222\342\044\117\064\060
\012\006\010\052\206\110\316\075\004\003\003\060\112\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\027\060\025\006\003
\125\004\012\023\016\104\151\147\151\103\145\162\164\054\040\111
\156\143\056\061\042\060\040\006\003\125\004\003\023\031\104\151
\147\151\103\145\162\164\040\105\103\103\040\120\063\070\064\040
\122\157\157\164\040\107\065\060\036\027\015\062\061\060\061\061
\065\060\060\060\060\060\060\132\027\015\064\066\060\061\061\064
\062\063\065\071\065\071\132\060\112\061\013\060\011\006\003\125
\004\006\023\002\125\123\061\027\060\025\006\003\125\004\012\023
\016\104\151\147\151\103\145\162\164\054\040\111\156\143\056\061
\042\060\040\006\003\125\004\003\023\031\104\151\147\151\103\145
\162\164\040\105\103\103\040\120\063\070\064\040\122\157\157\164
\040\107\065\060\166\060\020\006\007\052\206\110\316\075\002\001
\006\005\053\201\004\000\042\003\142\000\004\374\131\037\316\231
\154\177\233\016\266\051\143\157\306\205\363\012\323\326\233\256
\127\025\114\016\355\135\343\011\176\155\052\243\206\252\272\170
\240\247\161\275\104\372\010\300\112\006\326\157\335\054\112\070
\164\345\320\275\377\172\377\345\071\116\275\275\027\036\037\103
\255\325\274\047\330\113\277\166\214\060\062\244\373\371\123\345

\330\252\070\123\135\250\240\067\240\147\012\243\102\060\100\060
\035\006\003\125\035\016\004\026\004\024\222\226\367\346\272\325
\021\272\371\042\056\173\176\132\331\360\045\345\005\033\060\016
\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060\017
\006\003\125\035\023\001\001\377\004\005\060\003\001\001\377\060
\012\006\010\052\206\110\316\075\004\003\003\003\150\000\060\145
\002\061\000\375\300\115\361\244\247\333\247\014\046\021\364\111
\275\007\070\143\053\104\142\006\171\010\307\303\324\317\233\076
\253\072\047\252\220\307\375\131\242\270\062\122\333\312\216\027
\013\012\220\002\060\135\032\354\121\211\324\144\334\371\345\036
\070\275\133\056\343\345\104\344\073\030\172\327\360\225\100\217
\362\353\317\364\371\320\145\242\101\362\260\346\174\301\066\054
\217\136\071\335\067
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "DigiCert ECC P384 Root G5"
Issuer: CN=DigiCert ECC P384 Root G5,O=DigiCert\, Inc.,C=US
Serial Number:0d:f3:d9:37:65:a3:79:c5:95:66:ea:92:e2:24:4f:34
Subject: CN=DigiCert ECC P384 Root G5,O=DigiCert\, Inc.,C=US
Not Valid Before: Fri Jan 15 00:00:00 2021
Not Valid After: Sun Jan 14 23:59:59 2046
Fingerprint (MD5): 11:7f:85:ae:47:1f:51:61:6e:06:94:1e:6a:43:08:0b
Fingerprint (SHA1): d1:ee:b1:e8:c0:90:20:ba:b8:5d:3d:e2:7f:78:ee:33:a0:6c:ae:db
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert ECC P384 Root G5"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\321\356\261\350\300\220\040\272\270\135\075\342\177\170\356\063
\240\154\256\333
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\021\177\205\256\107\037\121\141\156\006\224\036\152\103\010\013
END
CKA_ISSUER MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\042\060\040\006\003\125\004
\003\023\031\104\151\147\151\103\145\162\164\040\105\103\103\040
\120\063\070\064\040\122\157\157\164\040\107\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\015\363\331\067\145\243\171\305\225\146\352\222\342\044

\117\064
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "HARICA Code Signing RSA Root CA 2021"
Issuer: CN=HARICA Code Signing RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Serial Number:15:c2:ae:2a:4d:99:9a:63:8c:d3:ba:13:19:76:08:f5
Subject: CN=HARICA Code Signing RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Not Valid Before: Fri Feb 19 10:59:54 2021
Not Valid After: Mon Feb 13 10:59:53 2045
Fingerprint (MD5): 00:5d:c9:e3:b2:c0:90:e0:61:9a:42:c0:29:a1:6b:ba
Fingerprint (SHA1): 8d:de:b8:20:46:b6:22:7c:79:24:6a:3e:ad:7b:32:c3:e8:8f:fc:ac
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Code Signing RSA Root CA 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\165\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\055\060\053\006\003\125\004
\003\014\044\110\101\122\111\103\101\040\103\157\144\145\040\123
\151\147\156\151\156\147\040\122\123\101\040\122\157\157\164\040
\103\101\040\062\060\062\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\165\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\055\060\053\006\003\125\004
\003\014\044\110\101\122\111\103\101\040\103\157\144\145\040\123
\151\147\156\151\156\147\040\122\123\101\040\122\157\157\164\040
\103\101\040\062\060\062\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\025\302\256\052\115\231\232\143\214\323\272\023\031\166
\010\365

END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\266\060\202\003\236\240\003\002\001\002\002\020\025
\302\256\052\115\231\232\143\214\323\272\023\031\166\010\365\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\165
\061\013\060\011\006\003\125\004\006\023\002\107\122\061\067\060
\065\006\003\125\004\012\014\056\110\145\154\154\145\156\151\143
\040\101\143\141\144\145\155\151\143\040\141\156\144\040\122\145
\163\145\141\162\143\150\040\111\156\163\164\151\164\165\164\151
\157\156\163\040\103\101\061\055\060\053\006\003\125\004\003\014
\044\110\101\122\111\103\101\040\103\157\144\145\040\123\151\147
\156\151\156\147\040\122\123\101\040\122\157\157\164\040\103\101
\040\062\060\062\061\060\036\027\015\062\061\060\062\061\071\061
\060\065\071\065\064\132\027\015\064\065\060\062\061\063\061\060
\065\071\065\063\132\060\165\061\013\060\011\006\003\125\004\006
\023\002\107\122\061\067\060\065\006\003\125\004\012\014\056\110
\145\154\154\145\156\151\143\040\101\143\141\144\145\155\151\143
\040\141\156\144\040\122\145\163\145\141\162\143\150\040\111\156
\163\164\151\164\165\164\151\157\156\163\040\103\101\061\055\060
\053\006\003\125\004\003\014\044\110\101\122\111\103\101\040\103
\157\144\145\040\123\151\147\156\151\156\147\040\122\123\101\040
\122\157\157\164\040\103\101\040\062\060\062\061\060\202\002\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\202\002\017\000\060\202\002\012\002\202\002\001\000\212\152\356
\252\012\043\125\014\213\006\102\343\225\133\124\170\137\305\216
\006\054\174\074\061\276\257\015\251\241\354\112\040\130\005\235
\342\150\262\273\353\137\177\052\063\271\362\125\234\157\252\244
\036\355\020\276\203\051\021\066\346\236\077\372\155\173\121\341
\325\167\245\275\313\151\016\073\042\040\224\014\061\145\100\015
\011\257\020\065\172\233\352\171\010\104\244\213\147\251\053\115
\301\347\320\327\247\366\265\072\215\331\243\251\171\270\244\145
\134\274\363\076\367\237\231\366\270\303\145\150\055\253\203\056
\335\205\231\004\251\365\321\134\325\121\102\001\271\237\101\265
\113\042\262\000\364\313\147\020\357\151\304\020\255\372\224\006
\166\120\022\127\202\256\305\024\255\074\175\273\235\361\163\341
\174\360\256\161\336\133\367\022\335\367\200\361\334\076\361\140
\272\311\031\227\157\165\164\205\114\375\071\103\303\144\156\064
\254\023\301\034\145\266\122\102\361\106\353\057\372\135\246\317
\016\111\235\367\164\174\170\015\006\072\054\022\373\342\113\046
\344\157\213\041\201\063\102\071\023\350\102\253\133\125\324\033
\273\067\266\022\221\367\363\175\274\322\377\354\261\303\325\240
\314\262\053\307\217\135\176\114\122\102\110\373\217\375\132\220
\163\020\325\251\162\124\215\111\333\070\122\252\106\110\016\057
\372\000\054\314\163\014\066\113\044\316\023\154\246\244\244\243
\326\174\233\351\070\013\306\044\333\115\254\147\041\111\133\101
\067\144\346\140\153\037\355\052\057\140\031\060\036\330\074\234
\031\103\207\337\300\012\364\344\312\140\210\172\326\243\271\344
\045\056\171\342\376\301\313\074\267\367\317\116\130\114\373\303

\255\253\175\252\312\210\373\016\070\015\037\236\134\071\353\270
\007\304\120\042\115\370\205\177\156\354\214\372\266\161\115\336
\175\226\151\304\335\076\036\336\046\220\012\054\115\025\225\251
\242\076\334\075\016\167\174\215\101\050\117\270\203\121\276\076
\267\217\220\072\160\061\211\132\372\223\123\374\140\311\215\165
\220\356\132\057\035\204\237\000\251\346\303\206\043\242\036\335
\022\343\241\106\140\033\147\277\120\025\042\222\174\112\264\214
\217\156\234\225\302\054\334\073\072\040\266\274\213\002\003\001
\000\001\243\102\060\100\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026
\004\024\264\144\026\110\350\374\132\113\063\051\211\353\231\100
\271\040\264\366\141\032\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\001\206\060\015\006\011\052\206\110\206\367\015
\001\001\013\005\000\003\202\002\001\000\053\254\131\213\346\071
\104\334\373\255\112\210\340\144\377\253\303\362\322\316\160\057
\003\345\157\262\304\365\066\326\123\153\207\253\035\213\231\007
\310\060\216\107\162\375\241\270\165\326\027\241\026\275\144\163
\221\060\127\255\175\375\005\100\206\223\321\111\226\262\013\324
\174\144\023\213\323\041\111\070\273\373\350\314\076\061\361\256
\173\114\052\337\202\006\243\216\005\204\234\177\160\316\300\273
\105\027\337\135\145\014\344\120\110\007\104\213\244\057\126\332
\306\172\366\140\215\244\070\361\235\207\026\060\262\360\137\172
\102\125\040\161\317\314\356\000\261\022\107\277\102\271\344\263
\265\035\031\204\271\230\155\340\151\264\025\101\265\342\120\110
\307\037\352\232\267\171\221\335\325\325\123\031\374\256\030\154
\151\333\255\131\050\233\144\230\247\074\307\125\216\321\060\000
\317\324\062\236\142\261\303\052\356\065\042\306\273\360\174\273
\203\270\000\211\365\334\032\227\331\070\232\051\123\141\031\246
\247\364\073\107\375\335\147\225\017\216\244\146\054\202\232\267
\055\161\346\337\256\370\370\150\301\273\017\352\120\240\105\227
\267\032\225\022\157\310\263\266\005\150\332\152\036\016\065\205
\204\254\164\014\212\264\364\165\237\042\257\260\124\273\266\236
\042\371\331\353\325\212\015\307\334\370\230\061\137\236\372\306
\227\364\101\020\165\323\201\266\061\137\172\335\210\205\010\257
\160\107\002\067\173\342\112\354\135\362\335\051\022\104\310\212
\252\335\322\125\170\027\165\257\161\151\015\167\160\112\260\037
\177\102\333\307\161\334\130\326\030\275\120\305\271\162\004\307
\147\173\174\123\140\312\111\030\025\274\100\163\256\053\250\053
\254\157\021\104\071\354\202\110\176\021\312\373\326\077\266\300
\271\270\006\223\165\275\223\047\167\027\015\134\245\236\352\301
\133\000\055\014\250\065\140\307\342\157\065\033\075\166\265\347
\255\335\164\043\117\206\262\107\357\310\057\320\205\174\071\226
\067\241\053\051\002\275\076\207\317\250\366\035\165\062\317\070
\343\163\261\356\020\201\265\052\261\210\006\121\036\132\072\110
\121\363\066\131\142\337\102\146\131\120\267\130\276\365\166\100
\232\022\026\346\016\252\327\154\240\325
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "HARICA Code Signing RSA Root CA 2021"
Issuer: CN=HARICA Code Signing RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Serial Number:15:c2:ae:2a:4d:99:9a:63:8c:d3:ba:13:19:76:08:f5
Subject: CN=HARICA Code Signing RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Not Valid Before: Fri Feb 19 10:59:54 2021
Not Valid After: Mon Feb 13 10:59:53 2045
Fingerprint (MD5): 00:5d:c9:e3:b2:c0:90:e0:61:9a:42:c0:29:a1:6b:ba
Fingerprint (SHA1): 8d:de:b8:20:46:b6:22:7c:79:24:6a:3e:ad:7b:32:c3:e8:8f:fc:ac
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Code Signing RSA Root CA 2021"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\215\336\270\040\106\266\042\174\171\044\152\076\255\173\062\303
\350\217\374\254
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\000\135\311\343\262\300\220\340\141\232\102\300\051\241\153\272
END
CKA_ISSUER MULTILINE_OCTAL
\060\165\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\055\060\053\006\003\125\004
\003\014\044\110\101\122\111\103\101\040\103\157\144\145\040\123
\151\147\156\151\156\147\040\122\123\101\040\122\157\157\164\040
\103\101\040\062\060\062\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\025\302\256\052\115\231\232\143\214\323\272\023\031\166
\010\365
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "HARICA Code Signing ECC Root CA 2021"
Issuer: CN=HARICA Code Signing ECC Root CA 2021,O=Hellenic Academic and Research Institutions

CA,C=GR
Serial Number:4c:8a:63:1d:a9:63:8f:05:a2:fb:76:14:ff:5b:a2:cd
Subject: CN=HARICA Code Signing ECC Root CA 2021,O=Hellenic Academic and Research Institutions
CA,C=GR
Not Valid Before: Fri Feb 19 11:04:36 2021
Not Valid After: Mon Feb 13 11:04:35 2045
Fingerprint (MD5): 9d:dd:7d:39:b4:1c:95:fa:82:e0:c3:11:38:ba:69:84
Fingerprint (SHA1): e4:36:e5:37:b7:13:42:b6:2e:8e:00:30:5a:d9:a3:d1:d7:33:47:e9
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Code Signing ECC Root CA 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\165\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\055\060\053\006\003\125\004
\003\014\044\110\101\122\111\103\101\040\103\157\144\145\040\123
\151\147\156\151\156\147\040\105\103\103\040\122\157\157\164\040
\103\101\040\062\060\062\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\165\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\055\060\053\006\003\125\004
\003\014\044\110\101\122\111\103\101\040\103\157\144\145\040\123
\151\147\156\151\156\147\040\105\103\103\040\122\157\157\164\040
\103\101\040\062\060\062\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\114\212\143\035\251\143\217\005\242\373\166\024\377\133
\242\315
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\146\060\202\001\355\240\003\002\001\002\002\020\114
\212\143\035\251\143\217\005\242\373\166\024\377\133\242\315\060
\012\006\010\052\206\110\316\075\004\003\003\060\165\061\013\060
\011\006\003\125\004\006\023\002\107\122\061\067\060\065\006\003
\125\004\012\014\056\110\145\154\154\145\156\151\143\040\101\143
\141\144\145\155\151\143\040\141\156\144\040\122\145\163\145\141
\162\143\150\040\111\156\163\164\151\164\165\164\151\157\156\163
\040\103\101\061\055\060\053\006\003\125\004\003\014\044\110\101

\122\111\103\101\040\103\157\144\145\040\123\151\147\156\151\156
\147\040\105\103\103\040\122\157\157\164\040\103\101\040\062\060
\062\061\060\036\027\015\062\061\060\062\061\071\061\061\060\064
\063\066\132\027\015\064\065\060\062\061\063\061\061\060\064\063
\065\132\060\165\061\013\060\011\006\003\125\004\006\023\002\107
\122\061\067\060\065\006\003\125\004\012\014\056\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151
\164\165\164\151\157\156\163\040\103\101\061\055\060\053\006\003
\125\004\003\014\044\110\101\122\111\103\101\040\103\157\144\145
\040\123\151\147\156\151\156\147\040\105\103\103\040\122\157\157
\164\040\103\101\040\062\060\062\061\060\166\060\020\006\007\052
\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000
\004\103\237\274\134\102\152\103\341\254\113\270\016\137\200\006
\343\005\167\213\177\013\171\327\141\240\220\277\362\123\050\243
\130\272\224\300\146\152\034\131\332\200\130\201\000\114\274\311
\171\230\020\014\307\035\013\343\223\334\205\071\150\331\277\247
\103\322\061\314\202\202\047\272\210\321\322\055\126\067\367\072
\332\156\071\334\161\020\145\356\070\013\207\172\003\272\060\137
\144\243\102\060\100\060\017\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\035\006\003\125\035\016\004\026\004
\024\152\161\301\163\152\223\102\246\227\162\136\273\220\137\202
\222\017\053\326\353\060\016\006\003\125\035\017\001\001\377\004
\004\003\002\001\206\060\012\006\010\052\206\110\316\075\004\003
\003\003\147\000\060\144\002\060\036\245\325\013\104\225\020\344
\147\174\116\205\136\271\105\111\002\163\260\262\034\263\247\042
\321\000\141\100\017\263\207\067\026\215\000\355\266\213\125\045
\006\224\220\334\327\347\165\237\002\060\177\164\153\361\112\337
\360\367\204\173\362\305\171\060\003\110\362\036\040\042\127\144
\124\127\064\200\167\267\077\043\117\264\365\200\230\302\301\126
\133\240\347\326\241\217\365\014\157\035
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "HARICA Code Signing ECC Root CA 2021"
Issuer: CN=HARICA Code Signing ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Serial Number:4c:8a:63:1d:a9:63:8f:05:a2:fb:76:14:ff:5b:a2:cd
Subject: CN=HARICA Code Signing ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
Not Valid Before: Fri Feb 19 11:04:36 2021
Not Valid After: Mon Feb 13 11:04:35 2045
Fingerprint (MD5): 9d:dd:7d:39:b4:1c:95:fa:82:e0:c3:11:38:ba:69:84
Fingerprint (SHA1): e4:36:e5:37:b7:13:42:b6:2e:8e:00:30:5a:d9:a3:d1:d7:33:47:e9
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Code Signing ECC Root CA 2021"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\344\066\345\067\267\023\102\266\056\216\000\060\132\331\243\321
\327\063\107\351
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\235\335\175\071\264\034\225\372\202\340\303\021\070\272\151\204
END
CKA_ISSUER MULTILINE_OCTAL
\060\165\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\055\060\053\006\003\125\004
\003\014\044\110\101\122\111\103\101\040\103\157\144\145\040\123
\151\147\156\151\156\147\040\105\103\103\040\122\157\157\164\040
\103\101\040\062\060\062\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\114\212\143\035\251\143\217\005\242\373\166\024\377\133
\242\315
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Certificate "Microsoft Identity Verification Root Certificate Authority 2020"
Issuer: CN=Microsoft Identity Verification Root Certificate Authority 2020,O=Microsoft Corporation,C=US
Serial Number:54:98:d2:d1:d4:5b:19:95:48:13:79:c8:11:c0:87:99
Subject: CN=Microsoft Identity Verification Root Certificate Authority 2020,O=Microsoft Corporation,C=US
Not Valid Before: Thu Apr 16 18:36:16 2020
Not Valid After: Sun Apr 16 18:44:40 2045
Fingerprint (MD5): be:95:4f:16:01:21:22:44:8c:a8:bc:27:96:02:ac:f5
Fingerprint (SHA1): f4:00:42:e2:e5:f7:e8:ef:81:89:fe:d1:55:19:ae:ce:42:c3:bf:a2
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft Identity Verification Root Certificate Authority 2020"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\167\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163

\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\110\060\106\006\003\125\004\003\023\077\115\151\143\162\157\163
\157\146\164\040\111\144\145\156\164\151\164\171\040\126\145\162
\151\146\151\143\141\164\151\157\156\040\122\157\157\164\040\103
\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157
\162\151\164\171\040\062\060\062\060
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\167\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\110\060\106\006\003\125\004\003\023\077\115\151\143\162\157\163
\157\146\164\040\111\144\145\156\164\151\164\171\040\126\145\162
\151\146\151\143\141\164\151\157\156\040\122\157\157\164\040\103
\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157
\162\151\164\171\040\062\060\062\060
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\124\230\322\321\324\133\031\225\110\023\171\310\021\300
\207\231
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\314\060\202\003\264\240\003\002\001\002\002\020\124
\230\322\321\324\133\031\225\110\023\171\310\021\300\207\231\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\167
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\036\060
\034\006\003\125\004\012\023\025\115\151\143\162\157\163\157\146
\164\040\103\157\162\160\157\162\141\164\151\157\156\061\110\060
\106\006\003\125\004\003\023\077\115\151\143\162\157\163\157\146
\164\040\111\144\145\156\164\151\164\171\040\126\145\162\151\146
\151\143\141\164\151\157\156\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\062\060\060\036\027\015\062\060\060\064\061
\066\061\070\063\066\061\066\132\027\015\064\065\060\064\061\066
\061\070\064\064\064\060\132\060\167\061\013\060\011\006\003\125
\004\006\023\002\125\123\061\036\060\034\006\003\125\004\012\023
\025\115\151\143\162\157\163\157\146\164\040\103\157\162\160\157
\162\141\164\151\157\156\061\110\060\106\006\003\125\004\003\023
\077\115\151\143\162\157\163\157\146\164\040\111\144\145\156\164
\151\164\171\040\126\145\162\151\146\151\143\141\164\151\157\156
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\145\040\101\165\164\150\157\162\151\164\171\040\062\060\062\060
\060\202\002\042\060\015\006\011\052\206\110\206\367\015\001\001
\001\005\000\003\202\002\017\000\060\202\002\012\002\202\002\001
\000\263\221\052\007\203\006\147\375\236\235\340\307\300\267\244
\346\102\004\177\017\246\333\137\373\325\132\327\105\240\373\167
\013\360\200\363\246\155\132\115\171\123\330\240\206\204\127\105

\040\307\242\124\373\307\242\277\212\307\156\065\363\242\025\304
\057\116\343\112\205\226\111\015\377\276\231\330\024\366\274\047
\007\356\102\233\053\365\013\222\006\344\375\151\023\145\250\221
\162\362\230\204\353\203\075\016\344\327\161\022\110\041\313\015
\355\366\107\111\267\233\371\311\307\027\266\204\117\377\270\254
\232\327\163\147\111\205\343\206\275\067\100\320\045\206\324\336
\265\302\155\142\152\325\251\170\274\055\157\111\371\345\154\024
\024\375\024\307\323\145\026\067\336\313\156\274\136\051\215\375
\142\233\025\054\326\005\346\271\211\062\063\243\142\307\327\326
\122\147\010\304\056\364\126\053\236\013\207\314\354\247\264\246
\252\353\005\315\031\127\245\072\013\004\047\034\221\147\236\055
\142\055\057\036\276\332\300\040\313\004\031\312\063\373\211\276
\230\342\162\240\162\065\276\171\341\234\203\157\344\155\027\157
\220\363\075\000\206\165\070\216\320\340\111\232\273\333\323\370
\060\312\325\127\210\150\115\162\323\277\155\177\161\330\375\275
\015\256\222\144\110\267\133\157\171\046\265\315\233\225\041\204
\321\357\017\062\075\173\127\214\363\105\007\114\174\340\136\030
\016\065\166\213\155\236\313\066\164\253\005\370\340\163\135\062
\126\224\147\227\045\012\306\065\075\224\227\347\301\104\213\200
\375\301\370\364\164\031\345\060\366\006\373\041\127\076\006\034
\213\153\025\206\047\111\173\202\223\312\131\350\165\107\350\077
\070\364\307\123\171\240\266\264\342\134\121\357\275\137\070\301
\023\346\170\014\225\132\056\305\100\131\050\314\017\044\300\354
\272\011\167\043\231\070\246\266\034\332\307\272\040\266\327\067
\330\177\067\257\010\343\073\161\333\156\163\033\175\231\162\260
\344\206\063\131\164\265\026\000\173\120\155\306\206\023\332\375
\304\071\202\075\044\000\232\140\332\272\224\300\005\121\054\064
\254\120\231\023\207\273\263\005\200\262\115\060\002\134\270\046
\203\135\264\143\163\357\256\043\225\117\140\050\276\067\325\133
\245\002\003\001\000\001\243\124\060\122\060\016\006\003\125\035
\017\001\001\377\004\004\003\002\001\206\060\017\006\003\125\035
\023\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125
\035\016\004\026\004\024\310\176\322\152\205\052\033\312\031\230
\004\007\047\317\120\020\117\150\250\242\060\020\006\011\053\006
\001\004\001\202\067\025\001\004\003\002\001\000\060\015\006\011
\052\206\110\206\367\015\001\001\014\005\000\003\202\002\001\000
\257\152\335\346\031\347\055\224\103\031\116\313\351\120\225\144
\245\003\221\002\213\342\066\200\073\025\242\122\302\026\031\266
\152\132\135\164\103\060\364\233\377\140\164\011\261\041\036\220
\026\155\305\044\217\134\146\210\143\364\117\314\175\362\022\114
\100\020\213\001\237\332\251\310\256\362\225\033\317\235\005\353
\111\076\164\240\150\133\345\126\054\145\034\202\176\123\332\126
\331\106\027\171\222\105\304\020\066\010\122\051\027\313\057\246
\362\176\324\151\044\212\036\217\260\163\015\314\034\112\253\262
\252\355\247\221\143\001\144\042\250\062\270\176\062\050\263\147
\163\055\221\264\334\061\001\013\367\107\012\246\361\327\112\355
\126\140\304\054\010\243\173\100\260\274\164\047\122\207\326\276
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\072\200\327\032\227\074\027\066\042\101\036\254\115\325\203\346
\074\070\275\117\060\351\124\251\323\266\004\303\062\166\141\273
\260\030\305\053\030\263\300\200\325\267\225\260\136\121\115\042
\374\354\130\252\350\330\224\264\245\056\355\222\336\347\030\174
\041\127\335\125\143\367\277\155\315\037\322\246\167\050\160\307
\342\133\072\133\010\322\133\116\310\000\226\263\341\203\066\257
\206\012\145\134\164\366\352\354\172\152\164\240\360\113\356\357
\224\243\254\120\362\207\355\327\072\060\203\311\373\175\127\276
\345\343\370\101\312\345\144\256\263\243\354\130\354\205\232\314
\357\271\352\363\126\030\271\134\163\232\257\305\167\027\203\131
\333\067\032\030\162\124\245\101\322\266\043\165\243\103\232\345
\167\174\226\171\267\101\215\277\354\334\200\240\237\321\167\165
\130\137\065\023\340\045\032\147\013\175\316\045\372\007\012\344
\141\041\330\324\034\345\007\306\066\231\364\226\320\306\025\376
\116\315\327\256\213\235\333\026\375\004\306\222\275\324\210\346
\251\243\252\273\367\144\070\073\137\314\014\320\065\276\164\031
\003\246\305\252\114\242\141\066\202\076\035\363\053\274\227\135
\333\113\170\073\055\365\073\357\140\043\350\365\354\013\043\066
\225\257\230\146\277\123\323\173\270\151\112\052\226\146\151\304
\224\306\364\137\156\254\230\170\210\200\006\134\242\262\355\242
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Microsoft Code Signing Only Certificate
Trust for "Microsoft Identity Verification Root Certificate Authority 2020"
Issuer: CN=Microsoft Identity Verification Root Certificate Authority 2020,O=Microsoft Corporation,C=US
Serial Number:54:98:d2:d1:d4:5b:19:95:48:13:79:c8:11:c0:87:99
Subject: CN=Microsoft Identity Verification Root Certificate Authority 2020,O=Microsoft Corporation,C=US
Not Valid Before: Thu Apr 16 18:36:16 2020
Not Valid After: Sun Apr 16 18:44:40 2045
Fingerprint (MD5): be:95:4f:16:01:21:22:44:8c:a8:bc:27:96:02:ac:f5
Fingerprint (SHA1): f4:00:42:e2:e5:f7:e8:ef:81:89:fe:d1:55:19:ae:ce:42:c3:bf:a2
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft Identity Verification Root Certificate Authority 2020"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\364\000\102\342\345\367\350\357\201\211\376\321\125\031\256\316
\102\303\277\242
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\276\225\117\026\001\041\042\104\214\250\274\047\226\002\254\365
END
CKA_ISSUER MULTILINE_OCTAL
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\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\110\060\106\006\003\125\004\003\023\077\115\151\143\162\157\163
\157\146\164\040\111\144\145\156\164\151\164\171\040\126\145\162
\151\146\151\143\141\164\151\157\156\040\122\157\157\164\040\103
\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157
\162\151\164\171\040\062\060\062\060
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\124\230\322\321\324\133\031\225\110\023\171\310\021\300
\207\231
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Found in path(s):
* /opt/cola/permits/1425443200_1664017022.0583818/0/ca-certificates-2022.2.54-74.el7_9.src.rpm-cosi-expand-archive-GCjLhYzR/certdata.txt

1.364 aws-java-sdk-apigatewaymanagementapi 1.12.199

1.364.1 Available under license :

Apache-2.0

1.365 securesm 1.0

1.365.1 Available under license :

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*/

Found in path(s):
* /opt/cola/permits/1000064129_1611575159.51/0/v1-0-tar-gz/securesm-1.0/src/test/java/org/elasticsearch/TestSecureSM.java
* /opt/cola/permits/1000064129_1611575159.51/0/v1-0-tar-gz/securesm-1.0/src/main/java/org/elasticsearch/SecureSM.java
* /opt/cola/permits/1000064129_1611575159.51/0/v1-0-tar-gz/securesm-1.0/src/main/java/org/elasticsearch/ThreadPermission.java
* /opt/cola/permits/1000064129_1611575159.51/0/v1-0-tar-gz/securesm-1.0/src/test/java/org/elasticsearch/TestThreadPermission.java
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<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
 <modelVersion>4.0.0</modelVersion>
 <groupId>org.elasticsearch</groupId>
 <artifactId>securesm</artifactId>
 <version>1.0</version>
 <packaging>jar</packaging>
 <name>Elasticsearch SecureSM</name>
 <description>SecurityManager implementation that works around design flaws in Java</description>
 <inceptionYear>2015</inceptionYear>

 <parent>
  <groupId>org.sonatype.oss</groupId>
  <artifactId>oss-parent</artifactId>
  <version>7</version>
 </parent>

 <licenses>
  <license>
    <name>The Apache Software License, Version 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
    <distribution>repo</distribution>
  </license>
 </licenses>

 <scm>
  <connection>scm:git:git@github.com:elastic/securesm.git</connection>
  <developerConnection>scm:git:git@github.com:elastic/securesm.git</developerConnection>
  <url>https://github.com/elastic/securesm</url>
 </scm>

```
<properties>
  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
  <maven.compiler.source>1.7</maven.compiler.source>
  <maven.compiler.target>1.7</maven.compiler.target>
</properties>

<dependencies>
  <dependency>
    <groupId>junit</groupId>
    <artifactId>junit</artifactId>
    <version>4.11</version>
    <scope>test</scope>
    <exclusions>
      <exclusion>
        <groupId>org.hamcrest</groupId>
        <artifactId>hamcrest-core</artifactId>
      </exclusion>
    </exclusions>
  </dependency>
</dependencies>

<build>
</build>
</project>
```

Found in path(s):
* /opt/cola/permits/1000064129_1611575159.51/0/v1-0-tar-gz/securesm-1.0/pom.xml

1.366 wsgiref 0.1.2

1.366.1 Available under license :

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```
# Licensed under the MIT license: http://www.opensource.org/licenses/mit-license.php
# Also licenced under the Apache License, 2.0: http://opensource.org/licenses/apache2.0.php
```

Found in path(s):
* /opt/cola/permits/1403963770_1661913703.6112542/0/wsgiref-0-1-2-2-zip/wsgiref-0.1.2/wsgiref/validate.py
No license file was found, but licenses were detected in source scan.

```
Metadata-Version: 1.0
Name: wsgiref
Version: 0.1.2
Summary: WSGI (PEP 333) Reference Library
Home-page: http://cheeseshop.python.org/pypi/wsgiref
Author: Phillip J. Eby
Author-email: web-sig@python.org
```

License: PSF or ZPL
Description: This is a standalone release of the ``wsgiref`` library to be included in
Python 2.5. For the standalone version's documentation, see:

HTML
http://peak.telecommunity.com/wsgiref_docs/

PDF
http://peak.telecommunity.com/wsgiref.pdf

Platform: UNKNOWN

Found in path(s):
* /opt/cola/permits/1403963770_1661913703.6112542/0/wsgiref-0-1-2-2-zip/wsgiref-0.1.2/wsgiref.egg-info/PKG-INFO
* /opt/cola/permits/1403963770_1661913703.6112542/0/wsgiref-0-1-2-2-zip/wsgiref-0.1.2/PKG-INFO

1.367 commons-codec 1.15

1.367.1 Available under license :

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src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
contains test data from http://aspell.net/test/orig/batch0.tab.
Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)

==========

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analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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and Edmond Nolan.

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in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.
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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
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 org.apache.tomcat:tomcat-jasper-el
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org.eclipse.jetty.toolchain:jetty-schemas

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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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 org.apache.tomcat:tomcat-jasper
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 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

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 org.apache.tomcat:tomcat-jasper-el
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org.eclipse.jetty.toolchain:jetty-schemas

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*
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/*
* This file is part of ClassGraph.

```
*
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*
* Hosted at: https://github.com/classgraph/classgraph
*
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* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/MethodParameterInfo.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ScanResult.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ScanResultObject.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/RecyclableInflater.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/utils/InputStreamOrByteBufferAdapter.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ModuleInfo.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/BaseTypeSignature.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classloaderhandler/EquinoxContextFinderClassLoaderHandler.java

* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ObjectTypedValueWrapper.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ClasspathElementModule.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/AnnotationParameterValueList.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/json/ReferenceEqualityKey.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/types/ParseException.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/TypeArgument.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/json/ClassFields.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/concurrency/InterruptionChecker.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/MethodInfo.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/AnnotationClassRef.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ClassRefTypeSignature.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/utils/URLPathEncoder.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/ScanSpec.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/concurrency/SingletonMap.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/MappableInfoList.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/HasName.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ModuleRef.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/json/ClassFieldCache.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classloaderhandler/EquinoxClassLoaderHandler.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ClassGraphException.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/NestedJarHandler.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ClassTypeSignature.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classpath/ClassLoaderAndModuleFinder.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ClassGraph.java

* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ModuleReaderProxy.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/json/FieldTypeInfo.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/InfoList.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classloaderhandler/TomcatWebappClassLoaderBaseHandler.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/Resource.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classpath/ClasspathOrder.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/HierarchicalTypeSignature.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/PackageInfo.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/utils/CollectionUtils.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/json/JSONSerializer.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classpath/SystemJarFinder.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/types/TypeUtils.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/TypeSignature.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/TypeParameter.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classloaderhandler/ClassLoaderHandlerRegistry.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classloaderhandler/OSGiDefaultClassLoaderHandler.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classloaderhandler/WeblogicClassLoaderHandler.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ReferenceTypeSignature.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/concurrency/WorkQueue.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ClasspathElementZip.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/AnnotationParameterValue.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/utils/FastPathResolver.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/json/JSONDeserializer.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classpath/ClassLoaderOrder.java

* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classloaderhandler/ClassLoaderHandler.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ModulePathInfo.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ClasspathElement.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/AnnotationEnumValue.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ClassGraphClassLoader.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classloaderhandler/URLClassLoaderHandler.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/json/JSONUtils.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classloaderhandler/PlexusClassWorldsClassRealmClassLoaderHandler.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/utils/Join.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ModuleInfoList.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/AnnotationInfo.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classpath/CallStackReader.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classloaderhandler/JPMSClassLoaderHandler.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/utils/ReflectionUtils.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/PackageInfoList.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/json/Id.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ClassInfo.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/FieldInfo.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/json/ParameterizedTypeImpl.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/json/JSONArray.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/Scanner.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/GraphvizDotfileGenerator.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/recycler/Recycler.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/FieldInfoList.java

* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/types/Parser.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/AnnotationInfoList.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classpath/ClasspathFinder.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classloaderhandler/ParentLastDelegationOrderTestClassLoaderHandler.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/utils/JarUtils.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/utils/FileUtils.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/MethodTypeSignature.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/json/JSONReference.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/utils/LogNode.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/Classfile.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/ZipFileSliceReader.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/json/JSONParser.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ClassInfoList.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/recycler/RecycleOnClose.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ClassRefOrTypeVariableSignature.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/json/JSONObject.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/ZipFileSlice.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/PhysicalZipFile.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/LogicalZipFile.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/FastZipEntry.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/utils/VersionFinder.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/recycler/Resettable.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/TypeVariableSignature.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ArrayTypeSignature.java

* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/MethodInfoList.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classloaderhandler/FallbackClassLoaderHandler.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/json/TypeResolutions.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ClasspathElementDir.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/WhiteBlackList.java
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```
/*
* This file is part of ClassGraph.
*
* Author: Sergey Bespalov
*
* Hosted at: https://github.com/classgraph/classgraph
*
* --
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* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classloaderhandler/WebsphereTraditionalClassLoaderHandler.java

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/*
* This file is part of ClassGraph.
*
* Author: @jacobg on GitHub
*
* Hosted at: https://github.com/classgraph/classgraph
*
* --
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* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/META-INF/maven/io.github.classgraph/classgraph/pom.xml
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/*

* This file is part of ClassGraph.
*
* Author: Luke Hutchison
*
* Hosted at: https://github.com/classgraph/classgraph
*
* --
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* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classloaderhandler/JBossClassLoaderHandler.java
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/*
* This file is part of ClassGraph.
*
* Author: Michael J. Simons
*
* Hosted at: https://github.com/classgraph/classgraph
*
* --
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* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classloaderhandler/SpringBootRestartClassLoaderHandler.java
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/*
* This file is part of ClassGraph.
*
* Author: Harith Elrufaie
*
* Hosted at: https://github.com/classgraph/classgraph
*
* --
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* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classloaderhandler/FelixClassLoaderHandler.java
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/*
* This file is part of ClassGraph.
*
* Author: Johno Crawford (johno@sulake.com)
*
* Hosted at: https://github.com/classgraph/classgraph
*
* --
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1.379 sdk-core 2.17.85

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* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/IntoSet.java

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1.385 kotlin-reflect 1.3.50

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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/storage/StorageManager.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/VariableDescriptorWithAccessors.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/types/DisjointKeysUnionTypeSubstitution.kt
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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/incremental/components/LookupTracker.kt
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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/KProperty0Impl.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/annotations/AnnotationUseSiteTarget.kt
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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/impl/VariableDescriptorWithInitializerImpl.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/ParameterDescriptor.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/load/java/components/DescriptorResolverUtils.java
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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/annotations/AnnotatedImpl.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/resolve/scopes/AbstractScopeAdapter.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/load/kotlin/KotlinClassFinder.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/MemberDescriptor.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-

jar/kotlin/reflect/jvm/internal/impl/name/SpecialNames.java
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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/resolve/scopes/receivers/TransientReceiver.java
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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/EmptyContainerForLocal.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/pcollections/IntTree.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/builtins/functions/BuiltInFictitiousFunctionClassFactory.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/KClassImpl.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/ReflectProperties.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/annotations/AnnotationArgumentVisitor.java
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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/serialization/deserialization/AnnotatedCallableKind.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/components/ReflectAnnotationSource.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/PropertyDescriptor.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/load/java/lazy/ModuleClassResolver.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/load/java/components/JavaResolverCache.java
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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/ModuleDescriptor.kt
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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/resolve/scopes/InnerClassesScopeWrapper.kt
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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/serialization/deserialization/AnnotationAndConstantLoaderImpl.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/load/java/FieldOverridabilityCondition.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/impl/CompositePackageFragmentProvider.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/impl/DeclarationDescriptorVisitorEmptyBodies.java
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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/DeclarationDescriptorWithVisibility.java
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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/reflectLambda.kt
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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/builtins/DefaultBuiltIns.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/load/java/JvmAnnotationNames.kt
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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/util/scopeUtils.kt
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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/ClassOrPackageFragmentDescriptor.java
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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/load/java/lazy/descriptors/JavaDescriptorUtil.kt
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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/serialization/deserialization/DeserializedClassDataFinder.kt
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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/name/FqNameUnsafe.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/load/java/descriptors/JavaCallableMemberDescriptor.java
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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/name/FqName.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-

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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/ClassKind.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/load/kotlin/AbstractBinaryClassAnnotationAndConstantLoader.kt
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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/ValueParameterDescriptor.kt
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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/VariableAccessorDescriptor.kt
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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/util/ModuleVisibilityHelper.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/builtins/CompanionObjectMapping.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/pcollections/IntTreePMap.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/resolve/VisibilityUtil.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/resolve/scopes/ChainedMemberScope.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/ReflectionObjectRenderer.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/load/kotlin/header/KotlinClassHeader.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/annotations/AnnotationDescriptor.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/typeParameterUtils.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/KCallablesJvm.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/serialization/deserialization/ProtoEnumFlags.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/load/java/sources/JavaSourceElementFactory.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/resolve/scopes/LazyScopeAdapter.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/utils/Printer.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-

jar/kotlin/reflect/jvm/internal/impl/utils/WrappedValues.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/impl/SimpleFunctionDescriptorImpl.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/moduleByClassLoader.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/kClassCache.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/KProperty1Impl.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/PropertyAccessorDescriptor.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/pcollections/HashPMap.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/resolve/constants/constantValues.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/resolve/scopes/receivers/ImplicitReceiver.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/resolve/scopes/receivers/ExtensionReceiver.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/KFunctionImpl.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/resolve/scopes/receivers/ReceiverValue.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/resolve/MemberComparator.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/load/java/lazy/LazyJavaPackageFragmentProvider.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/DeclarationDescriptorVisitor.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/utils/exceptionUtils.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/impl/AbstractLazyTypeParameterDescriptor.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/ReceiverParameterDescriptor.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/types/Variance.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/load/java/JavaIncompatibilityRulesOverridabilityCondition.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/serialization/deserialization/descriptors/DeserializedPackageMemberScope.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/load/java/components/SignaturePropagator.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/impl/ReceiverParameterDescriptorImpl.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/utils/addToStdlib.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-

jar/kotlin/reflect/jvm/ReflectJvmMapping.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/impl/ValueParameterDescriptorImpl.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/SupertypeLoopChecker.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/resolve/jvm/JavaDescriptorResolver.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/load/java/components/JavaAnnotationMapper.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/load/java/descriptors/JavaPropertyDescriptor.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/types/ClassTypeConstructorImpl.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/resolve/DescriptorFactory.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/utils/SmartSet.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/impl/DeclarationDescriptorNonRootImpl.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/serialization/deserialization/DeserializedPackageFragment.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/pcollections/MapEntry.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/annotations/AnnotationWithTarget.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/load/kotlin/KotlinJvmBinarySourceElement.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/serialization/deserialization/AnnotationAndConstantLoader.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/types/TypeProjectionImpl.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/Visibility.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/load/kotlin/header/ReadKotlinClassHeaderAnnotationVisitor.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/resolve/scopes/receivers/AbstractReceiverValue.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/FunctionWithAllInvokes.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/PackageFragmentDescriptor.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/resolve/ExternalOverridabilityCondition.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/CallableMemberDescriptor.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/load/kotlin/DeserializedDescriptorResolver.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-

jar/kotlin/reflect/jvm/internal/KPackageImpl.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/serialization/deserialization/LocalClassifierTypeSettings.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/impl/DeclarationDescriptorImpl.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/load/java/specialBuiltinMembers.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/resolve/jvm/JvmClassName.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/structure/ReflectJavaModifierListOwner.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/serialization/deserialization/descriptors/DeserializedAnnotations.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/load/java/components/TypeUsage.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/impl/SubpackagesScope.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/renderer/RenderingUtils.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/types/checker/TypeCheckerProcedureCallbacksImpl.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/builtins/functions/FunctionInvokeDescriptor.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/resolve/scopes/MemberScopeImpl.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/load/java/descriptors/util.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/utils/coreLib.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/storage/NoLock.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/DeclarationDescriptorNonRoot.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/resolve/scopes/MemberScope.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/types/StarProjectionImpl.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/impl/PackageFragmentDescriptorImpl.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/types/TypeConstructor.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/ReflectionFactoryImpl.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/serialization/deserialization/ClassDataFinder.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/utils/strings.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-

jar/kotlin/reflect/jvm/internal/impl/name/ClassId.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/annotations/annotationUtil.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/load/java/JvmAnnotationNames.java
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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/load/java/lazy/descriptors/LazyJavaStaticScope.kt
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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/EffectiveVisibility.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/storage/ObservableStorageManager.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/DeclarationDescriptor.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/SourceElement.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/resolve/jvm/JvmPrimitiveType.java
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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/pcollections/ConsPStack.java
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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/PackageFragmentProvider.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/impl/TypeParameterDescriptorImpl.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-

jar/kotlin/reflect/jvm/internal/impl/descriptors/TypeParameterDescriptor.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/SourceFile.java
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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/builtins/PrimitiveType.java
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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/serialization/SerializerExtensionProtocol.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/ScriptDescriptor.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/load/kotlin/JvmPackagePartSource.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/resolve/overridingUtils.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/PropertySetterDescriptor.java
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*/
// A seemingly obvious way to come about this case would be to declare a special exception class, but the problem is that

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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/storage/LockBasedStorageManager.java
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Found in path(s):
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/components/ReflectKotlinClassFinder.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/types/checker/IntersectionType.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/impl/PropertyDescriptorImpl.java
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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/types/checker/NewKotlinTypeChecker.kt
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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/serialization/deserialization/DeserializedPackageFragmentImpl.kt
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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/config/KotlinCompilerVersion.java
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/structure/ReflectJavaTypeParameter.kt
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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/types/ErrorType.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/load/java/lazy/descriptors/LazyJavaStaticClassScope.kt
* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/descriptors/Modality.kt
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* /opt/cola/permits/1136558942_1613789270.78/0/kotlin-reflect-1-3-50-sources-3-jar/kotlin/reflect/jvm/internal/impl/utils/SmartList.java
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1.386 attr 2.4.46 13.el7

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1.387 pth 2.0.7 23.el7

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the

Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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1.389 argparse 0.8.1

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d) If a facility in the modified Library refers to a function or a

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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1.391 dropwizard-jetty 2.0.25

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1.392 aws-java-sdk-qldb 1.12.199

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* /opt/ws_local/PERMITS_SQL/1088629606_1599838102.52/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/SetUIDServer.java
* /opt/ws_local/PERMITS_SQL/1088629606_1599838102.52/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/SetUID.java
* /opt/ws_local/PERMITS_SQL/1088629606_1599838102.52/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/Group.java
* /opt/ws_local/PERMITS_SQL/1088629606_1599838102.52/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/RLimit.java
* /opt/ws_local/PERMITS_SQL/1088629606_1599838102.52/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/Passwd.java

1.398 kerberos 1.15.1-54.el7_9

1.398.1 Available under license :

[NOTE: MIT has only incorporated the mechglue and spnego change, and
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cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
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lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
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lib/libgss/g_inquire_context.c
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lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c

uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c

lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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1.405 rootfiles 8.1 11.el7

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1.406 lvm2 1.02.170-6.el7_9.5

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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
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Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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- -

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Jim Luther's Mac OS File Manager interface code; and Christopher Evans'
MacBinaryIII coding code (for the MacOS port).. These copyrights
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All remaining code is now (starting with UnZip version 5.41) covered

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There are no known patents on any of the code in UnZip. Unisys
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that performs LZW encoding_, but the patent appears to exempt a stand-
alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed
otherwise, but the issue has never been tested in court. Since this
point is unclear, unshrinking is not enabled by default. It is the
responsibility of the user to make his or her peace with Unisys and
its licensing requirements. (unshrink.c may be removed from future
releases altogether.)

The original unzip source code has been extensively modified and
almost entirely rewritten (changes include random zipfile access
rather than sequential; replacement of unimplode() with explode();
replacement of old unshrink() with new (unrelated) unshrink(); re-
placement of output routines; addition of inflate(), wildcards,
filename-mapping, text translation, ...; etc.). As far as we can
tell, only the core code of the unreduce method remained substantially
similar to Mr. Smith's original source. As of UnZip 5.42, the complete
core code is now covered by the Info-ZIP Licence. Therefore, support
for the reduce method has been removed.
The drop of the reduce method should only affect some test archives,
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For pathologic cases where support for reduced archive entries is
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```
 * MoreFiles
 *
 * A collection of File Manager and related routines
 *
```

```
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```
  *  MacBinaryIII.h
  *
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  *
  *  Basic encoding and decoding of Macintosh files to the
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```

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Regarding the first stipulation, Mr. Smith was tracked down in southern
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May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS),
71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that
 he has no objection to the Info-ZIP group's inclusion of his code.
 His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten
and by default no longer contains any of Mr. Smith's code, Info-ZIP
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Note that the third and fourth stipulations still apply to any com-
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The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.
The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

1.410 jackson-module-parameter-names 2.10.5

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1.412 javax-ws-rs-api 2.0.1

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ASM: a very small and fast Java bytecode manipulation framework

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Gnomovision version 69, Copyright (C) year  name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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```

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```
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<signature of Ty Coon>, 1 April 1989
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* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/DoNotMock.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/CompatibleWith.java

* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/RestrictedApi.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/MustBeClosed.java
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* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/concurrent/GuardedBy.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/CheckReturnValue.java
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* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/Immutable.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/ForOverride.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/Var.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/SuppressPackageLocation.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/IncompatibleModifiers.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/CompileTimeConstant.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/concurrent/LazyInit.java
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* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/NoAllocation.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/concurrent/LockMethod.java

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Apache-2.0

1.424 python-gobject-base 3.22.0-1.el7_4.1

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1.426 glib 2.56.1-9.el7_9

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1.433 yum-metadata-parser 1.1.4-10.el7

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* /opt/cola/permits/1136595876_1654023073.881817/0/yum-metadata-parser-1.1.4-10.el7-1.src.rpm-cosi-expand-archive-jRbEhi8z/yum-metadata-parser-1.1.4.tar.gz-cosi-expand-archive-z7uqs49I/yum-metadata-parser-1.1.4/package.c
* /opt/cola/permits/1136595876_1654023073.881817/0/yum-metadata-parser-1.1.4-10.el7-1.src.rpm-cosi-expand-archive-jRbEhi8z/yum-metadata-parser-1.1.4.tar.gz-cosi-expand-archive-z7uqs49I/yum-metadata-parser-1.1.4/xml-parser.h
* /opt/cola/permits/1136595876_1654023073.881817/0/yum-metadata-parser-1.1.4-10.el7-1.src.rpm-cosi-expand-archive-jRbEhi8z/yum-metadata-parser-1.1.4.tar.gz-cosi-expand-archive-z7uqs49I/yum-metadata-parser-1.1.4/sqlitecache.c
* /opt/cola/permits/1136595876_1654023073.881817/0/yum-metadata-parser-1.1.4-10.el7-1.src.rpm-cosi-expand-archive-jRbEhi8z/yum-metadata-parser-1.1.4.tar.gz-cosi-expand-archive-z7uqs49I/yum-metadata-parser-1.1.4/db.h
* /opt/cola/permits/1136595876_1654023073.881817/0/yum-metadata-parser-1.1.4-10.el7-1.src.rpm-cosi-expand-archive-jRbEhi8z/yum-metadata-parser-1.1.4.tar.gz-cosi-expand-archive-z7uqs49I/yum-metadata-parser-1.1.4/package.h
* /opt/cola/permits/1136595876_1654023073.881817/0/yum-metadata-parser-1.1.4-10.el7-1.src.rpm-cosi-expand-archive-jRbEhi8z/yum-metadata-parser-1.1.4.tar.gz-cosi-expand-archive-z7uqs49I/yum-metadata-parser-1.1.4/db.c
* /opt/cola/permits/1136595876_1654023073.881817/0/yum-metadata-parser-1.1.4-10.el7-1.src.rpm-cosi-expand-archive-jRbEhi8z/yum-metadata-parser-1.1.4.tar.gz-cosi-expand-archive-z7uqs49I/yum-metadata-parser-1.1.4/xml-parser.c
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Metadata-Version: 1.0
Name: yum-metadata-parser
Version: 1.1.4
Summary: A fast YUM meta-data parser
Home-page: UNKNOWN

Author: UNKNOWN
Author-email: UNKNOWN
License: UNKNOWN
Description: UNKNOWN
Platform: UNKNOWN

Found in path(s):
* /opt/cola/permits/1136595876_1654023073.881817/0/yum-metadata-parser-1.1.4-10.el7-1.src.rpm-cosi-expand-archive-jRbEhi8z/yum-metadata-parser-1.1.4.tar.gz-cosi-expand-archive-z7uqs49I/yum-metadata-parser-1.1.4/PKG-INFO
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* /opt/cola/permits/1136595876_1654023073.881817/0/yum-metadata-parser-1.1.4-10.el7-1.src.rpm-cosi-expand-archive-jRbEhi8z/yum-metadata-parser.spec
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1.434 servlet-api 4.0.4

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1.435 glibc 2.17-326.el7_9

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This file is derived from RFC 3492bis written by Adam M. Costello.

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1.436 sqlite 3.7.17-8.el7_7.1

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* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-doc-3071700.zip-cosi-expand-archive-r9EckcaZ/sqlite-doc-3071700/different.html
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/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued. Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked. The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option

** is invoked.
**
** <dl>
** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Single-thread. In other words, it disables
** all mutexing and puts SQLite into a mode where it can only be used
** by a single thread. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
** configuration option.</dd>
**
** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Multi-thread. In other words, it disables
** mutexing on [database connection] and [prepared statement] objects.
** The application is responsible for serializing access to
** [database connections] and [prepared statements]. But other mutexes
** are enabled so that SQLite will be safe to use in a multi-threaded
** environment as long as no two threads attempt to use the same
** [database connection] at the same time. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mem_methods] structure. The argument specifies
** alternative low-level memory allocation routines to be used in place of

** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>
**
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mem_methods] structure. The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^
** This option can be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^This option takes single argument of type int, interpreted as a
** boolean, which enables or disables the collection of memory allocation
** statistics. ^(When memory allocation statistics are disabled, the
** following SQLite interfaces become non-operational:
**
**   [sqlite3_memory_used()]
**   [sqlite3_memory_highwater()]
**   [sqlite3_soft_heap_limit64()]
**   [sqlite3_status()]
**   )^
** ^Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
** </dd>
**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> ^This option specifies a static memory buffer that SQLite can use for
** scratch memory. There are three arguments: A pointer an 8-byte
** aligned memory buffer from which the scratch allocations will be
** drawn, the size of each scratch allocation (sz),
** and the maximum number of scratch allocations (N). The sz
** argument must be a multiple of 16.
** The first argument must be a pointer to an 8-byte aligned buffer
** of at least sz*N bytes of memory.
** ^SQLite will use no more than two scratch buffers per thread. So
** N should be set to twice the expected maximum number of threads.
** ^SQLite will never require a scratch buffer that is more than 6
** times the database page size. ^If SQLite needs needs additional
** scratch memory beyond what is provided by this configuration option, then
** [sqlite3_malloc()] will be used to obtain the memory needed.</dd>
**
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> ^This option specifies a static memory buffer that SQLite can use for
** the database page cache with the default page cache implementation.
** This configuration should not be used if an application-define page

** cache implementation is loaded using the SQLITE_CONFIG_PCACHE2 option.
** There are three arguments to this option: A pointer to 8-byte aligned
** memory, the size of each page buffer (sz), and the number of pages (N).
** The sz argument should be the size of the largest database page
** (a power of two between 512 and 32768) plus a little extra for each
** page header. ^The page header size is 20 to 40 bytes depending on
** the host architecture. ^It is harmless, apart from the wasted memory,
** to make sz a little too large. The first
** argument should point to an allocation of at least sz*N bytes of memory.
** ^SQLite will use the memory provided by the first argument to satisfy its
** memory needs for the first N pages that it adds to cache. ^If additional
** page cache memory is needed beyond what is provided by this option, then
** SQLite goes to [sqlite3_malloc()] for the additional storage space.
** The pointer in the first argument must
** be aligned to an 8-byte boundary or subsequent behavior of SQLite
** will be undefined.</dd>
**
** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^This option specifies a static memory buffer that SQLite will use
** for all of its dynamic memory allocation needs beyond those provided
** for by [SQLITE_CONFIG_SCRATCH] and [SQLITE_CONFIG_PAGECACHE].
** There are three arguments: An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the
** memory pointer is not NULL and either [SQLITE_ENABLE_MEMSYS3] or
** [SQLITE_ENABLE_MEMSYS5] are defined, then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>
**
** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mutex_methods] structure. The argument specifies
** alternative low-level mutex routines to be used in place
** the mutex routines built into SQLite.)^ ^SQLite makes a copy of the
** content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^(This option takes a single argument which is a pointer to an

** instance of the [sqlite3_mutex_methods] structure. The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(This option takes two arguments that determine the default
** memory allocation for the lookaside memory allocator on each
** [database connection]. The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^ ^(This option sets the
** default lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** verb to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^ </dd>
**
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(This option takes a single argument which is a pointer to
** an [sqlite3_pcache_methods2] object. This object specifies the interface
** to a custom page cache implementation.)^ ^SQLite makes a copy of the
** object and uses it for page cache memory allocations.</dd>
**
** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** [sqlite3_pcache_methods2] object. SQLite copies of the current
** page cache implementation into that object.)^ </dd>
**
** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()] to process each logging event. ^If the
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter to the application-defined logger
** function whenever that function is invoked. ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding
** [sqlite3_log()] call and is intended to be a [result code] or an
** [extended result code]. ^The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()].
** The SQLite logging interface is not reentrant; the logger function

** supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe. </dd>
**
** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
** <dd> This option takes a single argument of type int. If non-zero, then
** URI handling is globally enabled. If the parameter is zero, then URI handling
** is globally disabled. If URI handling is globally enabled, all filenames
** passed to [sqlite3_open()], [sqlite3_open_v2()], [sqlite3_open16()] or
** specified as part of [ATTACH] commands are interpreted as URIs, regardless
** of whether or not the [SQLITE_OPEN_URI] flag is set when the database
** connection is opened. If it is globally disabled, filenames are
** only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the
** database connection is opened. By default, URI handling is globally
** disabled. The default value may be changed by compiling with the
** [SQLITE_USE_URI] symbol defined.
**
** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
** <dd> This option takes a single integer argument which is interpreted as
** a boolean in order to enable or disable the use of covering indices for
** full table scans in the query optimizer. The default setting is determined
** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
** if that compile-time option is omitted.
** The ability to disable the use of covering indices for full table scans
** is because some incorrectly coded legacy applications might malfunction
** malfunction when the optimization is enabled. Providing the ability to
** disable the optimization allows the older, buggy application code to work
** without change even with newer versions of SQLite.
**
** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
** <dd> These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
** </dd>
**
** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG_SQLLOG
** <dd>This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
** fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1, then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The

** third parameter is passed NULL In this case. An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>
**
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. The maximum allowed mmap size
** cannot be changed at run-time. Nor may the maximum allowed mmap size
** exceed the compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.
** If either argument to this option is negative, then that argument is
** changed to its compile-time default.
** </dl>
*/

Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-src-3071700.zip-cosi-expand-archive-cheW8kUH/sqlite-src-3071700/src/sqlite.h.in
No license file was found, but licenses were detected in source scan.

application is free to use the same database connection or the

Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-doc-3071700.zip-cosi-expand-archive-r9EckcaZ/sqlite-doc-3071700/capi3ref.html
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Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-doc-3071700.zip-cosi-expand-archive-r9EckcaZ/sqlite-doc-3071700/about.html
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* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-doc-3071700.zip-cosi-expand-archive-r9EckcaZ/sqlite-doc-3071700/faq.html
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procset Adobe_CoolType_Utility_MAKEOCF 1.23 0
procset Adobe_CoolType_Utility_T42 1.0 0

procset Adobe_AGM_Image 1.0 0

Found in path(s):
* %%BeginResource
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Suppose the demo_data.boundary field holds some proprietary data description

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* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-doc-3071700.zip-cosi-expand-archive-r9EckcaZ/sqlite-doc-3071700/rtree.html
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* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite.spec
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public domain and so many groups use SQLite

Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-doc-3071700.zip-cosi-expand-archive-r9EckcaZ/sqlite-doc-3071700/famous.html
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```
# 2006 September 14
#
# The author disclaims copyright to this source code.  In place of
# a legal notice, here is a blessing:
#
#    May you do good and not evil.
#    May you find forgiveness for yourself and forgive others.
#    May you share freely, never taking more than you give.
#
#***********************************************************************
# This file implements regression tests for SQLite library.  The
# focus of this script is testing the FTS1 module.
#
# $Id: fts1c.test,v 1.11 2006/10/04 17:35:28 drh Exp $
#

set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
ifcapable !fts1 {
```

```
 finish_test
 return
}

# Create a table of sample email data.   The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
#
do_test fts1c-1.1 {
 db eval {
   CREATE VIRTUAL TABLE email USING fts1([from],[to],subject,body);
   BEGIN TRANSACTION;
INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com,
traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following
changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent
product. See rules below:

? If the transaction volume on the child is less than half of the parent''s minimum volume no hedge will occur.
? If the transaction volume on the child is more than half the parent''s minimum volume but less than half the volume
increment on the parent, the hedge will volume will be the parent''s minimum volume.
? For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent''s Settings:
Minimum:  5000
Increment:  1000

Volume on Autohedge transaction   Volume Hedged
1      - 2499       0
2500 - 5499       5000
5500 - 6499       6000');
INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com,
lisa.king@enron.com, lisa.best@enron.com,', 'Leaving Early', 'FYI:
If it''s ok with everyone''s needs, I would like to leave @4pm. If you think
you will need my assistance past the 4 o''clock hour just let me know;  I''ll
be more than willing to stay.');
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com',
'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready
for approval:

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93
```

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com');
INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,

Could you print off the current work request report by 1:30 today?

Gentlemen,

I''d like to review this today at 1:30 in our office. Also, could you provide
me with your activity reports so I can have Julie enter this information.

JD');
INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....
http://biz.yahoo.com/rf/010129/n29305829.html');
INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');
INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', '
The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent: Tuesday, October 16, 2001 3:42 PM
To: Carter, Karen E.
Subject: FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent: Friday, September 21, 2001 8:33 PM
Subject: Producers Newsletter 9-24-2001

');
INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame
and your recent visit with Mr. Fox that it would be difficult for either you
or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards

Delainey');
INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com',
'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent: Wednesday, September 26, 2001 7:50 AM
To: Fenceroy, LaChandra
Subject: FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent: Tuesday, September 25, 2001 2:41 PM
To: Bisbee, Joanne
Subject: Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');
INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com',
'RE: worksheets', 'Fran,
  If Julie''s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd''s sheets as well.
Thanks.
Dan

-----Original Message-----
From: Fagan, Fran
Sent: Thursday, December 20, 2001 11:10 AM
To: McCarty, Danny
Subject: worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

');
INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT');
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com,', 'TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y&current_efct_date=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.');
INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our
credit guy, Russell Diamond.

Thank for your help!');
INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.');
INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');
INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,
Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.
In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com
THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.
- OUTAGE.dbf
- 111201R.xls
- 111201.xls ');
INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com', 'all_ena_egm_eim@enron.com', 'EWS Brown Bag', 'MARK YOUR LUNCH CALENDARS NOW !

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610');
INSERT INTO email([from],[to],subject,body) VALUES('chris.germany@enron.com', 'ingrid.immer@williams.com', 'Re: About St Pauls', 'Sounds good to me. I bet this is next to the Warick?? Hotel.

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: ""chris.germany@enron.com"" <chris.germany@enron.com>
cc:
Subject: About St Pauls

<<About St Pauls.url>>
?
?http://www.stpaulshouston.org/about.html

Chris,

I like the looks of this place.? What do you think about going here Christmas
eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m.,
among others.

Let me know.?? ii

- About St Pauls.url

');
INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com, kmccrea@sablaw.com, thompson@wrightlaw.com,', 'Reply Brief filed July 31, 2000', ' - CPUC01-#76371-v1-Revised_Reply_Brief__Due_today_7_31_.doc');
INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder
As discussed in the Winter Operations Meeting on Sept.29,2000,
E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC.
Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy
chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.
');
INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com', '', '

Here is a goody for you');
INSERT INTO email([from],[to],subject,body) VALUES('ryan.o"rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com,', 'TRV Notification: (West VaR - 11/07/2001)', 'The report named: West VaR
<http://trv.corp.enron.com/linkFromExcel.asp?report_cd=36&report_name=West+VaR&category_cd=2&category_name=WEST&toc_hide=1&sTV1=2&TV1Exp=Y&current_efct_date=11/07/2001>, published as of 11/07/2001 is now available for viewing on the website.');
INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, ggreen2@txu.com, timpowell@txu.com,', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap 10.000 / Enron ; 110.000 / HPL IFERC

LS HPL LSK IC 30.000 / Enron
');
INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira');
INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn"t know how deep to go with the desk. Do you think this works.

');
INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', '', 'George,

Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160');
INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');
INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295');
INSERT INTO email([from],[to],subject,body) VALUES('matt.smith@enron.com', 'yan.wang@enron.com', 'Report Formats', 'Yan,

The merged reports look great. I believe the only orientation changes are to
"unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.');
INSERT INTO email([from],[to],subject,body) VALUES('michelle.lokay@enron.com', 'jimboman@bigfoot.com',

'Egyptian Festival', '---------- Forwarded by Michelle Lokay/ET&S/Enron on 09/07/2000 10:08 AM ----------

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: ""Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)" <Leila_Mankarious@mhhs.org>, ""Marymankarious (E-mail)" <marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy Mankarious (E-mail)" <Mankarious@aol.com>
cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url
');
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'sherry.dawson@enron.com', 'Urgent!!! --- New EAST books', 'This has to be done.....

Thanks
---------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000 08:39 AM ----------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:

Scott Neal : East Northeast
Dick Jenkins: East Marketeast

WK
');
INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');
INSERT INTO email([from],[to],subject,body) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re: Light reading - see pieces beginning on page 7', 'John,

I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc:
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com',
'mmmarcantel@equiva.com', 'RE:', 'i will try to line up a pig for you ');
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com, judy.martinez@enron.com,', 'Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760');
INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this
product out ASAP.

Thanks,

Eric');
INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm..tholt@enron.com', '10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE]
[IMAGE][IMAGE][IMAGE]
Dear SmartReminders Member,
[IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]

We respect your privacy and are a Certified Participant of the BBBOnLine
Privacy Program. To be removed from future offers,click here.
SmartReminders.com is a permission based service. To unsubscribe click here . ');
INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com',
'mark.bernstein@enron.com', '', 'The guy you are talking about left CIN under a "cloud of suspicion" sort of
speak. He was the one who got into several bad deals and PPA"s in California
for CIN, thus he left on a bad note. Let me know if you need more detail
than that, I felt this was the type of info you were looking for. Thanks!
Ben');
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com',
'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash
Report Name: Houston Cellular 8-11-01
Report Date: 12/13/01
Report ID: 594D37C9ED2111D5B452
Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this
requirement.');
INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com,
mark.palmer@enron.com, karen.denne@enron.com,', 'CAISO Emergency Motion -- to discontinue market-based
rates for', 'FYI. the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: ""smara@enron.com""
<smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently
they are requesting that FERC discontinue market-based rates immediately and

grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie

http://www.caiso.com/docs/2001/06/08/200106081005526469.pdf
');
INSERT INTO email([from],[to],subject,body) VALUES('fletcher.sturm@enron.com', 'eloy.escobar@enron.com', 'Re: General Brinks Position Meeting', 'Eloy,

Who is General Brinks?

Fletch');
INSERT INTO email([from],[to],subject,body) VALUES('nailia.dindarova@enron.com', 'richard.shapiro@enron.com', 'Documents for Mark Frevert (on EU developments and lessons from', 'Rick,

Here are the documents that Peter has prepared for Mark Frevert.

Nailia
---------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001 16:36 ----------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

');

INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com',
'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
Finalize market analysis to refine business case, specifically
projected revenue stream
Complete counterparty surveying, including targeting 3 CPs for letters
of intent
Review Enron asset base for potential reuse/ licensing
Contract negotiations

Joe will come back to us with an updated time line, but it is my
expectation that we are still on the same schedule (we just begun week
three) with possibly a week or so slippage.....contract negotiations will
probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)
- accenture-dealpoints v2.doc ');
INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com',
'Re: Guadalupe Power Partners LP', '---------- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001
03:49 PM ----------

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at
either HSC, Waha or Katytailgate GD at buyers option three days prior to
NYMEX close.

');
INSERT INTO email([from],[to],subject,body) VALUES('judy.townsend@enron.com', 'dan.junek@enron.com,
chris.germany@enron.com', 'Columbia Distribution''s Capacity Available for Release - Sum', '----------
Forwarded by Judy Townsend/HOU/ECT on 03/09/2001 11:04
AM ----------

agoddard@nisource.com on 03/08/2001 09:16:57 AM
To: " - *Koch, Kent" <kkoch@nisource.com>, " -

*Millar, Debra" <dmillar@nisource.com>, " - *Burke, Lynn" <lburke@nisource.com>
cc: " - *Heckathorn, Tom" <theckathorn@nisource.com>
Subject: Columbia Distribution"s Capacity Available for Release - Sum

Attached is Columbia Distribution"s notice of capacity available for release for
the summer of 2001 (Apr. 2001 through Oct. 2001).

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed
at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc
');
INSERT INTO email([from],[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com, dana.davis@enron.com, genia.fitzgerald@enron.com,', 'Split Rock Energy LLC', 'We have received the executed EEI contract from this CP dated 12/12/2000.
Copies will be distributed to Legal and Credit.');
INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com, crow@millernash.com, michaelearly@earthlink.net,', 'Oral Argument Request', ' - Oral Argument Request.doc');
INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com', '', 'Did you come in town this wk end..... My new number at our house is :
713-668-3712..... my cell # is 281-381-7332

the kid');
INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info', '

-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

Its been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.
');
INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com,', 'email address change', 'Hello all.

I haven''t talked to many of you via email recently but I do want to give you
my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I''m hearing there is some hold-up & the units are stored on 44.

Shelley');
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com,', '2001 Enron Law Conference (Distribution List 2)', ' Enron Law Conference

San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an
Online RSVP Form on the Enron Law Conference Website at
http://lawconference.corp.enron.com. The website is still under construction
and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website
is operational.

? Please complete the Online RSVP Form as soon as it is available and submit
it no later than Friday, March 30th.

');
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com',
'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i"ll call pat
and let him know - we are coming on saturday - i just havent had a chance to
call you guys back -- looking forward to it -- i probably need the
directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com',
'Re: Feedback for Audrey Cook', 'Bryce,

I"ll get it done today.

DG 3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you
complete her feedback by end of business Wednesday? It will really help me
in the PRC process to have your input. Thanks.

');
INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com',
'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey');
INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com',

'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com,', 'Postings', 'Please see the attached.

ds

');
INSERT INTO email([from],[to],subject,body) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com, james_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn"t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL"s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com');
INSERT INTO email([from],[to],subject,body) VALUES('phillip.love@enron.com', 'todagost@utmb.edu, gbsonnta@utmb.edu', 'New President', 'I had a little bird put a word in my ear. Is there any possibility for Ben Raimer to be Bush"s secretary of HHS? Just curious about that infamous UTMB rumor mill. Hope things are well, happy holidays.
PL');
INSERT INTO email([from],[to],subject,body) VALUES('marie.heard@enron.com', 'ehamilton@fna.com', 'ISDA Master Agreement', 'Erin:

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist

Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

');
INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

');
INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com,', 'Price List week of Oct. 8-9, 2001', '
Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

');
INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com', 'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.');
INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com', 'RE: Constellation TC 5-7-01', 'Gregg,

I am at home with a sick baby. (Lots of fun!) I will call you about this
tomorrow.

Stacy');
INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', '', 'hey big guy.....check this out.....

w ww.gorelieberman-2000.com/');
INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqestc@aol.com', '', 'Jacques,

I sent you a fax of Kevin Kolb''s comments on the release. The payoff on the note would be $36,248

($36090(principal) + $158 (accrued interest)).
This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip');
INSERT INTO email([from],[to],subject,body) VALUES('kourtney.nelson@enron.com',
'mike.swerzbin@enron.com', 'Adjusted L/R Balance', 'Mike,

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
-Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com');
INSERT INTO email([from],[to],subject,body) VALUES('d..thomas@enron.com', 'naveed.ahmed@enron.com',
'FW: Current Enron TCC Portfolio', '

-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY"s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:08 AM
To: Grace, Rebecca M.
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',
'william.bradford@enron.com, debbie.brackett@enron.com,', 'Coastal Merchant Energy/El Paso Merchant Energy',
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy,
L.P., effective February 1, 2001, with the surviving entity being El Paso
Merchant Energy, L.P. We currently have ISDA Master Agreements with both
counterparties. Please see the attached memo regarding the existing Masters
and let us know which agreement should be terminated.

Thanks,
Stephanie
');
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE:
What about this too???', '

-----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>
');
INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com', 'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');
INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com', 'jworman@academyofhealth.com', '', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490');
INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', '', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY: APPOINTMENT

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:');
INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.

F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as
soon as Enron has done the due diligence for this country.
Thanks !

Best regards

Diana Seifert
EOL PCG');
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'mark.whitt@enron.com', '<<Concur Expense Document>> - 121001', 'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com');
INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.');
INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com', 'RE:', 'duke contact?

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 10:14 AM
To: Storey, Geoff
Subject: RE:

bp corp Albert LaMore 281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent: Wednesday, October 31, 2001 10:10 AM
To: Quigley, Dutch
Subject: RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject:

Coral Jeff Whitnah 713-767-5374
Relaint Steve McGinn 713-207-4000');
INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start Date: 4/22/01; HourAhead hour: 3; <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3; No ancillary schedules awarded.
Variances detected.
Variances detected in Load schedule.

LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.
Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)
TRANS_TYPE: FINAL
LOAD_ID: PGE4
MKT_TYPE: 2
TRANS_DATE: 4/22/01
SC_ID: EPMI

');
INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com',
'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com',
'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you,
but others) after our phone call is a result of the week. I''m seeing Glen at
11:15....talk to you');
INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', '
This week''s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebytztoolzprint.jpg');
  COMMIT;
 }
} {}

##
Everything above just builds an interesting test database. The actual
tests come after this comment.
##

do_test fts1c-1.2 {
 execsql {
  SELECT rowid FROM email WHERE email MATCH 'mark'
 }
} {6 17 25 38 40 42 73 74}
do_test fts1c-1.3 {
 execsql {
  SELECT rowid FROM email WHERE email MATCH 'susan'
 }
} {24 40}
do_test fts1c-1.4 {

```
 execsql {
   SELECT rowid FROM email WHERE email MATCH 'mark susan'
 }
} {40}
do_test fts1c-1.5 {
 execsql {
   SELECT rowid FROM email WHERE email MATCH 'susan mark'
 }
} {40}
do_test fts1c-1.6 {
 execsql {
   SELECT rowid FROM email WHERE email MATCH '"mark susan"'
 }
} {}
do_test fts1c-1.7 {
 execsql {
   SELECT rowid FROM email WHERE email MATCH 'mark -susan'
 }
} {6 17 25 38 42 73 74}
do_test fts1c-1.8 {
 execsql {
   SELECT rowid FROM email WHERE email MATCH '-mark susan'
 }
} {24}
do_test fts1c-1.9 {
 execsql {
   SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
 }
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column.  In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts1c-2.1 {
 execsql {
   SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
 }
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts1c-2.2 {
 execsql {
   SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
 }
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts1c-2.3 {
 execsql {
```

```
  SELECT rowid, offsets(email) FROM email
   WHERE email MATCH 'body:gas reminder'
 }
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts1c-2.4 {
 execsql {
  SELECT rowid, offsets(email) FROM email
   WHERE subject MATCH 'gas reminder'
 }
} {20 {2 0 42 3 2 1 54 8}}
do_test fts1c-2.5 {
 execsql {
  SELECT rowid, offsets(email) FROM email
   WHERE body MATCH 'gas reminder'
 }
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

# Document 32 contains 5 instances of the world "child".  But only
# 3 of them are paired with "product".  Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts1c-3.1 {
 execsql {
  SELECT rowid, offsets(email) FROM email
   WHERE body MATCH 'child product' AND +rowid=32
 }
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts1c-3.2 {
 execsql {
  SELECT rowid, offsets(email) FROM email
   WHERE body MATCH '"child product"'
 }
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

# Snippet generator tests
#
do_test fts1c-4.1 {
 execsql {
  SELECT snippet(email) FROM email
   WHERE email MATCH 'subject:gas reminder'
 }
} {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts1c-4.2 {
 execsql {
  SELECT snippet(email) FROM email
   WHERE email MATCH 'christmas candlelight'
 }
} {{<b>...</b> place.? What do you think about going here <b>Christmas</b>
```

eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m.,
among others. ...}}

```
do_test fts1c-4.3 {
 execsql {
   SELECT snippet(email) FROM email
    WHERE email MATCH 'deal sheet potential reuse'
 }
} {{EOL-Accenture <b>Deal</b> <b>Sheet</b> <b>...</b> intent
    Review Enron asset base for <b>potential</b> <b>reuse</b>/ licensing
    Contract negotiations <b>...</b>}}
do_test fts1c-4.4 {
 execsql {
   SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
 }
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>>  intent
    Review Enron asset base for <<<potential>>> <<<reuse>>>/ licensing
    Contract negotiations  }}
do_test fts1c-4.5 {
 execsql {
   SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'first things'
 }
} {{Re: <<<First>>> Polish Deal!  Congrats!  <<<Things>>> seem to be building rapidly now on the  }}
do_test fts1c-4.6 {
 execsql {
   SELECT snippet(email) FROM email
    WHERE email MATCH 'chris is here'
 }
} {{<b>chris</b>.germany@enron.com <b>...</b> Sounds good to me.  I bet this <b>is</b> next to the Warick??
Hotel. <b>...</b> place.? What do you think about going <b>here</b> Christmas
eve?? They have an 11:00 a.m. <b>...</b>}}
do_test fts1c-4.7 {
 execsql {
   SELECT snippet(email) FROM email
    WHERE email MATCH '"pursuant to"'
 }
} {{Erin:

<b>Pursuant</b> <b>to</b> your request, attached are the Schedule to <b>...</b>}}
do_test fts1c-4.8 {
 execsql {
   SELECT snippet(email) FROM email
    WHERE email MATCH 'ancillary load davis'
 }
} {{pete.<b>davis</b>@enron.com <b>...</b> Start Date: 4/22/01; HourAhead hour: 3;  No <b>ancillary</b>
schedules awarded.
```

Variances detected.
Variances detected in Load schedule.

  LOG MESSAGES:

PARSING ...}}

Combinations of AND and OR operators:
#
do_test fts1c-5.1 {
 execsql {
  SELECT snippet(email) FROM email
   WHERE email MATCH 'questar enron OR com'
 }
} {{matt.smith@enron.com ... six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2 ...}}
do_test fts1c-5.2 {
 execsql {
  SELECT snippet(email) FROM email
   WHERE email MATCH 'enron OR com questar'
 }
} {{matt.smith@enron.com ... six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2 ...}}

finish_test

Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-src-3071700.zip-cosi-expand-archive-cheW8kUH/sqlite-src-3071700/test/fts1c.test
No license file was found, but licenses were detected in source scan.

2001 September 15
#
The author disclaims copyright to this source code. In place of
a legal notice, here is a blessing:
#
May you do good and not evil.
May you find forgiveness for yourself and forgive others.
May you share freely, never taking more than you give.
#

```
#***********************************************************************
# This file implements regression tests for SQLite library.  The
# focus of this file is testing built-in functions.
#

set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Create a table to work with.
#
do_test func-0.0 {
 execsql {CREATE TABLE tbl1(t1 text)}
 foreach word {this program is free software} {
   execsql "INSERT INTO tbl1 VALUES('$word')"
 }
 execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} {free is program software this}
do_test func-0.1 {
 execsql {
    CREATE TABLE t2(a);
    INSERT INTO t2 VALUES(1);
    INSERT INTO t2 VALUES(NULL);
    INSERT INTO t2 VALUES(345);
    INSERT INTO t2 VALUES(NULL);
    INSERT INTO t2 VALUES(67890);
    SELECT * FROM t2;
 }
} {1 {} 345 {} 67890}

# Check out the length() function
#
do_test func-1.0 {
 execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {4 2 7 8 4}
do_test func-1.1 {
 set r [catch {execsql {SELECT length(*) FROM tbl1 ORDER BY t1}} msg]
 lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.2 {
 set r [catch {execsql {SELECT length(t1,5) FROM tbl1 ORDER BY t1}} msg]
 lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.3 {
 execsql {SELECT length(t1), count(*) FROM tbl1 GROUP BY length(t1)
          ORDER BY length(t1)}
} {2 1 4 2 7 1 8 1}
do_test func-1.4 {
 execsql {SELECT coalesce(length(a),-1) FROM t2}
```

```
} {1 -1 3 -1 5}

# Check out the substr() function
#
do_test func-2.0 {
 execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {fr is pr so th}
do_test func-2.1 {
 execsql {SELECT substr(t1,2,1) FROM tbl1 ORDER BY t1}
} {r s r o h}
do_test func-2.2 {
 execsql {SELECT substr(t1,3,3) FROM tbl1 ORDER BY t1}
} {ee {} ogr ftw is}
do_test func-2.3 {
 execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} {e s m e s}
do_test func-2.4 {
 execsql {SELECT substr(t1,-1,2) FROM tbl1 ORDER BY t1}
} {e s m e s}
do_test func-2.5 {
 execsql {SELECT substr(t1,-2,1) FROM tbl1 ORDER BY t1}
} {e i a r i}
do_test func-2.6 {
 execsql {SELECT substr(t1,-2,2) FROM tbl1 ORDER BY t1}
} {ee is am re is}
do_test func-2.7 {
 execsql {SELECT substr(t1,-4,2) FROM tbl1 ORDER BY t1}
} {fr {} gr wa th}
do_test func-2.8 {
 execsql {SELECT t1 FROM tbl1 ORDER BY substr(t1,2,20)}
} {this software free program is}
do_test func-2.9 {
 execsql {SELECT substr(a,1,1) FROM t2}
} {1 {} 3 {} 6}
do_test func-2.10 {
 execsql {SELECT substr(a,2,2) FROM t2}
} {{} {} 45 {} 78}

# Only do the following tests if TCL has UTF-8 capabilities
#
if {"\u1234"!="u1234"} {

# Put some UTF-8 characters in the database
#
do_test func-3.0 {
 execsql {DELETE FROM tbl1}
 foreach word "contains UTF-8 characters hi\u1234ho" {
   execsql "INSERT INTO tbl1 VALUES('$word')"
```

```
 }
 execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} "UTF-8 characters contains hi\u1234ho"
do_test func-3.1 {
 execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {5 10 8 5}
do_test func-3.2 {
 execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {UT ch co hi}
do_test func-3.3 {
 execsql {SELECT substr(t1,1,3) FROM tbl1 ORDER BY t1}
} "UTF cha con hi\u1234"
do_test func-3.4 {
 execsql {SELECT substr(t1,2,2) FROM tbl1 ORDER BY t1}
} "TF ha on i\u1234"
do_test func-3.5 {
 execsql {SELECT substr(t1,2,3) FROM tbl1 ORDER BY t1}
} "TF- har ont i\u1234h"
do_test func-3.6 {
 execsql {SELECT substr(t1,3,2) FROM tbl1 ORDER BY t1}
} "F- ar nt \u1234h"
do_test func-3.7 {
 execsql {SELECT substr(t1,4,2) FROM tbl1 ORDER BY t1}
} "-8 ra ta ho"
do_test func-3.8 {
 execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} "8 s s o"
do_test func-3.9 {
 execsql {SELECT substr(t1,-3,2) FROM tbl1 ORDER BY t1}
} "F- er in \u1234h"
do_test func-3.10 {
 execsql {SELECT substr(t1,-4,3) FROM tbl1 ORDER BY t1}
} "TF- ter ain i\u1234h"
do_test func-3.99 {
 execsql {DELETE FROM tbl1}
 foreach word {this program is free software} {
   execsql "INSERT INTO tbl1 VALUES('$word')"
 }
 execsql {SELECT t1 FROM tbl1}
} {this program is free software}

} ;# End \u1234!=u1234

# Test the abs() and round() functions.
#
ifcapable !floatingpoint {
 do_test func-4.1 {
   execsql {
```

```
    CREATE TABLE t1(a,b,c);
    INSERT INTO t1 VALUES(1,2,3);
    INSERT INTO t1 VALUES(2,12345678901234,-1234567890);
    INSERT INTO t1 VALUES(3,-2,-5);
   }
   catchsql {SELECT abs(a,b) FROM t1}
 } {1 {wrong number of arguments to function abs()}}
}
ifcapable floatingpoint {
 do_test func-4.1 {
   execsql {
    CREATE TABLE t1(a,b,c);
    INSERT INTO t1 VALUES(1,2,3);
    INSERT INTO t1 VALUES(2,1.2345678901234,-12345.67890);
    INSERT INTO t1 VALUES(3,-2,-5);
   }
   catchsql {SELECT abs(a,b) FROM t1}
 } {1 {wrong number of arguments to function abs()}}
}
do_test func-4.2 {
 catchsql {SELECT abs() FROM t1}
} {1 {wrong number of arguments to function abs()}}
ifcapable floatingpoint {
 do_test func-4.3 {
   catchsql {SELECT abs(b) FROM t1 ORDER BY a}
 } {0 {2 1.2345678901234 2}}
 do_test func-4.4 {
   catchsql {SELECT abs(c) FROM t1 ORDER BY a}
 } {0 {3 12345.6789 5}}
}
ifcapable !floatingpoint {
 if {[working_64bit_int]} {
   do_test func-4.3 {
     catchsql {SELECT abs(b) FROM t1 ORDER BY a}
   } {0 {2 12345678901234 2}}
 }
 do_test func-4.4 {
   catchsql {SELECT abs(c) FROM t1 ORDER BY a}
 } {0 {3 1234567890 5}}
}
do_test func-4.4.1 {
 execsql {SELECT abs(a) FROM t2}
} {1 {} 345 {} 67890}
do_test func-4.4.2 {
 execsql {SELECT abs(t1) FROM tbl1}
} {0.0 0.0 0.0 0.0 0.0}

ifcapable floatingpoint {
```

```
do_test func-4.5 {
  catchsql {SELECT round(a,b,c) FROM t1}
} {1 {wrong number of arguments to function round()}}
do_test func-4.6 {
  catchsql {SELECT round(b,2) FROM t1 ORDER BY b}
} {0 {-2.0 1.23 2.0}}
do_test func-4.7 {
  catchsql {SELECT round(b,0) FROM t1 ORDER BY a}
} {0 {2.0 1.0 -2.0}}
do_test func-4.8 {
  catchsql {SELECT round(c) FROM t1 ORDER BY a}
} {0 {3.0 -12346.0 -5.0}}
do_test func-4.9 {
  catchsql {SELECT round(c,a) FROM t1 ORDER BY a}
} {0 {3.0 -12345.68 -5.0}}
do_test func-4.10 {
  catchsql {SELECT 'x' || round(c,a) || 'y' FROM t1 ORDER BY a}
} {0 {x3.0y x-12345.68y x-5.0y}}
do_test func-4.11 {
  catchsql {SELECT round() FROM t1 ORDER BY a}
} {1 {wrong number of arguments to function round()}}
do_test func-4.12 {
  execsql {SELECT coalesce(round(a,2),'nil') FROM t2}
} {1.0 nil 345.0 nil 67890.0}
do_test func-4.13 {
  execsql {SELECT round(t1,2) FROM tbl1}
} {0.0 0.0 0.0 0.0 0.0}
do_test func-4.14 {
  execsql {SELECT typeof(round(5.1,1));}
} {real}
do_test func-4.15 {
  execsql {SELECT typeof(round(5.1));}
} {real}
do_test func-4.16 {
  catchsql {SELECT round(b,2.0) FROM t1 ORDER BY b}
} {0 {-2.0 1.23 2.0}}
# Verify some values reported on the mailing list.
# Some of these fail on MSVC builds with 64-bit
# long doubles, but not on GCC builds with 80-bit
# long doubles.
for {set i 1} {$i<999} {incr i} {
  set x1 [expr 40222.5 + $i]
  set x2 [expr 40223.0 + $i]
  do_test func-4.17.$i {
    execsql {SELECT round($x1);}
  } $x2
}
for {set i 1} {$i<999} {incr i} {
```

```
  set x1 [expr 40222.05 + $i]
  set x2 [expr 40222.10 + $i]
  do_test func-4.18.$i {
    execsql {SELECT round($x1,1);}
  } $x2
}
do_test func-4.20 {
  execsql {SELECT round(40223.4999999999);}
} {40223.0}
do_test func-4.21 {
  execsql {SELECT round(40224.4999999999);}
} {40224.0}
do_test func-4.22 {
  execsql {SELECT round(40225.4999999999);}
} {40225.0}
for {set i 1} {$i<10} {incr i} {
  do_test func-4.23.$i {
    execsql {SELECT round(40223.4999999999,$i);}
  } {40223.5}
  do_test func-4.24.$i {
    execsql {SELECT round(40224.4999999999,$i);}
  } {40224.5}
  do_test func-4.25.$i {
    execsql {SELECT round(40225.4999999999,$i);}
  } {40225.5}
}
for {set i 10} {$i<32} {incr i} {
  do_test func-4.26.$i {
    execsql {SELECT round(40223.4999999999,$i);}
  } {40223.4999999999}
  do_test func-4.27.$i {
    execsql {SELECT round(40224.4999999999,$i);}
  } {40224.4999999999}
  do_test func-4.28.$i {
    execsql {SELECT round(40225.4999999999,$i);}
  } {40225.4999999999}
}
do_test func-4.29 {
  execsql {SELECT round(1234567890.5);}
} {1234567891.0}
do_test func-4.30 {
  execsql {SELECT round(12345678901.5);}
} {12345678902.0}
do_test func-4.31 {
  execsql {SELECT round(123456789012.5);}
} {123456789013.0}
do_test func-4.32 {
  execsql {SELECT round(1234567890123.5);}
```

```
 } {1234567890124.0}
 do_test func-4.33 {
   execsql {SELECT round(12345678901234.5);}
 } {12345678901235.0}
 do_test func-4.34 {
   execsql {SELECT round(1234567890123.35,1);}
 } {1234567890123.4}
 do_test func-4.35 {
   execsql {SELECT round(1234567890123.445,2);}
 } {1234567890123.45}
 do_test func-4.36 {
   execsql {SELECT round(99999999999994.5);}
 } {99999999999995.0}
 do_test func-4.37 {
   execsql {SELECT round(9999999999999.55,1);}
 } {9999999999999.6}
 do_test func-4.38 {
   execsql {SELECT round(9999999999999.556,2);}
 } {9999999999999.56}
}

# Test the upper() and lower() functions
#
do_test func-5.1 {
 execsql {SELECT upper(t1) FROM tbl1}
} {THIS PROGRAM IS FREE SOFTWARE}
do_test func-5.2 {
 execsql {SELECT lower(upper(t1)) FROM tbl1}
} {this program is free software}
do_test func-5.3 {
 execsql {SELECT upper(a), lower(a) FROM t2}
} {1 1 {} {} 345 345 {} {} 67890 67890}
ifcapable !icu {
 do_test func-5.4 {
   catchsql {SELECT upper(a,5) FROM t2}
 } {1 {wrong number of arguments to function upper()}}
}
do_test func-5.5 {
 catchsql {SELECT upper(*) FROM t2}
} {1 {wrong number of arguments to function upper()}}

# Test the coalesce() and nullif() functions
#
do_test func-6.1 {
 execsql {SELECT coalesce(a,'xyz') FROM t2}
} {1 xyz 345 xyz 67890}
do_test func-6.2 {
 execsql {SELECT coalesce(upper(a),'nil') FROM t2}
```

```
} {1 nil 345 nil 67890}
do_test func-6.3 {
 execsql {SELECT coalesce(nullif(1,1),'nil')}
} {nil}
do_test func-6.4 {
 execsql {SELECT coalesce(nullif(1,2),'nil')}
} {1}
do_test func-6.5 {
 execsql {SELECT coalesce(nullif(1,NULL),'nil')}
} {1}


# Test the last_insert_rowid() function
#
do_test func-7.1 {
 execsql {SELECT last_insert_rowid()}
} [db last_insert_rowid]

# Tests for aggregate functions and how they handle NULLs.
#
ifcapable floatingpoint {
 do_test func-8.1 {
   ifcapable explain {
     execsql {EXPLAIN SELECT sum(a) FROM t2;}
   }
   execsql {
     SELECT sum(a), count(a), round(avg(a),2), min(a), max(a), count(*) FROM t2;
   }
 } {68236 3 22745.33 1 67890 5}
}
ifcapable !floatingpoint {
 do_test func-8.1 {
   ifcapable explain {
     execsql {EXPLAIN SELECT sum(a) FROM t2;}
   }
   execsql {
     SELECT sum(a), count(a), avg(a), min(a), max(a), count(*) FROM t2;
   }
 } {68236 3 22745.0 1 67890 5}
}
do_test func-8.2 {
 execsql {
   SELECT max('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t2;
 }
} {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}

ifcapable tempdb {
 do_test func-8.3 {
```

```
  execsql {
    CREATE TEMP TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
    SELECT min('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
  }
 } {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
} else {
 do_test func-8.3 {
  execsql {
    CREATE TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
    SELECT min('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
  }
 } {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
}
do_test func-8.4 {
 execsql {
  SELECT max('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
 }
} {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
ifcapable compound {
 do_test func-8.5 {
  execsql {
    SELECT sum(x) FROM (SELECT '9223372036' || '854775807' AS x
                UNION ALL SELECT -9223372036854775807)
  }
 } {0}
 do_test func-8.6 {
  execsql {
    SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775807' AS x
                UNION ALL SELECT -9223372036854775807)
  }
 } {integer}
 do_test func-8.7 {
  execsql {
    SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775808' AS x
                UNION ALL SELECT -9223372036854775807)
  }
 } {real}
ifcapable floatingpoint {
 do_test func-8.8 {
  execsql {
    SELECT sum(x)>0.0 FROM (SELECT '9223372036' || '854775808' AS x
                UNION ALL SELECT -9223372036850000000)
  }
 } {1}
}
ifcapable !floatingpoint {
 do_test func-8.8 {
  execsql {
```

```
    SELECT sum(x)>0 FROM (SELECT '9223372036' || '854775808' AS x
                  UNION ALL SELECT -9223372036850000000)
  }
 } {1}
}
}

# How do you test the random() function in a meaningful, deterministic way?
#
do_test func-9.1 {
 execsql {
  SELECT random() is not null;
 }
} {1}
do_test func-9.2 {
 execsql {
  SELECT typeof(random());
 }
} {integer}
do_test func-9.3 {
 execsql {
  SELECT randomblob(32) is not null;
 }
} {1}
do_test func-9.4 {
 execsql {
  SELECT typeof(randomblob(32));
 }
} {blob}
do_test func-9.5 {
 execsql {
  SELECT length(randomblob(32)), length(randomblob(-5)),
       length(randomblob(2000))
 }
} {32 1 2000}

# The "hex()" function was added in order to be able to render blobs
# generated by randomblob().  So this seems like a good place to test
# hex().
#
ifcapable bloblit {
 do_test func-9.10 {
  execsql {SELECT hex(x'00112233445566778899aAbBcCdDeEfF')}
 } {00112233445566778899AABBCCDDEEFF}
}
set encoding [db one {PRAGMA encoding}]
if {$encoding=="UTF-16le"} {
 do_test func-9.11-utf16le {
```

```
  execsql {SELECT hex(replace('abcdefg','ef','12'))}
 } {610062006300640031003200 6700}
 do_test func-9.12-utf16le {
  execsql {SELECT hex(replace('abcdefg','','12'))}
 } {610062006300640065006600 6700}
 do_test func-9.13-utf16le {
  execsql {SELECT hex(replace('aabcdefg','a','aaa'))}
 } {610061006100610061006100620063006400650066006700}
} elseif {$encoding=="UTF-8"} {
 do_test func-9.11-utf8 {
  execsql {SELECT hex(replace('abcdefg','ef','12'))}
 } {61626364313267}
 do_test func-9.12-utf8 {
  execsql {SELECT hex(replace('abcdefg','','12'))}
 } {61626364656667}
 do_test func-9.13-utf8 {
  execsql {SELECT hex(replace('aabcdefg','a','aaa'))}
 } {6161616161626364656667}
}

# Use the "sqlite_register_test_function" TCL command which is part of
# the text fixture in order to verify correct operation of some of
# the user-defined SQL function APIs that are not used by the built-in
# functions.
#
set ::DB [sqlite3_connection_pointer db]
sqlite_register_test_function $::DB testfunc
do_test func-10.1 {
 catchsql {
  SELECT testfunc(NULL,NULL);
 }
} {1 {first argument should be one of: int int64 string double null value}}
do_test func-10.2 {
 execsql {
  SELECT testfunc(
   'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
   'int', 1234
  );
 }
} {1234}
do_test func-10.3 {
 execsql {
  SELECT testfunc(
   'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
   'string', NULL
  );
 }
} {{}}
```

```
ifcapable floatingpoint {
 do_test func-10.4 {
   execsql {
     SELECT testfunc(
      'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
      'double', 1.234
     );
   }
 } {1.234}
 do_test func-10.5 {
   execsql {
     SELECT testfunc(
      'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
      'int', 1234,
      'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
      'string', NULL,
      'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
      'double', 1.234,
      'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
      'int', 1234,
      'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
      'string', NULL,
      'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
      'double', 1.234
     );
   }
 } {1.234}
}

# Test the built-in sqlite_version(*) SQL function.
#
do_test func-11.1 {
 execsql {
   SELECT sqlite_version(*);
 }
} [sqlite3 -version]

# Test that destructors passed to sqlite3 by calls to sqlite3_result_text()
# etc. are called. These tests use two special user-defined functions
# (implemented in func.c) only available in test builds.
#
# Function test_destructor() takes one argument and returns a copy of the
# text form of that argument. A destructor is associated with the return
# value. Function test_destructor_count() returns the number of outstanding
# destructor calls for values returned by test_destructor().
#
if {[db eval {PRAGMA encoding}]=="UTF-8"} {
```

```
 do_test func-12.1-utf8 {
   execsql {
     SELECT test_destructor('hello world'), test_destructor_count();
   }
 } {{hello world} 1}
} else {
   ifcapable {utf16} {
     do_test func-12.1-utf16 {
       execsql {
         SELECT test_destructor16('hello world'), test_destructor_count();
       }
     } {{hello world} 1}
   }
}
do_test func-12.2 {
 execsql {
   SELECT test_destructor_count();
 }
} {0}
do_test func-12.3 {
 execsql {
   SELECT test_destructor('hello')||' world'
 }
} {{hello world}}
do_test func-12.4 {
 execsql {
   SELECT test_destructor_count();
 }
} {0}
do_test func-12.5 {
 execsql {
   CREATE TABLE t4(x);
   INSERT INTO t4 VALUES(test_destructor('hello'));
   INSERT INTO t4 VALUES(test_destructor('world'));
   SELECT min(test_destructor(x)), max(test_destructor(x)) FROM t4;
 }
} {hello world}
do_test func-12.6 {
 execsql {
   SELECT test_destructor_count();
 }
} {0}
do_test func-12.7 {
 execsql {
   DROP TABLE t4;
 }
} {}
```

```
# Test that the auxdata API for scalar functions works. This test uses
# a special user-defined function only available in test builds,
# test_auxdata(). Function test_auxdata() takes any number of arguments.
do_test func-13.1 {
 execsql {
   SELECT test_auxdata('hello world');
 }
} {0}

do_test func-13.2 {
 execsql {
   CREATE TABLE t4(a, b);
   INSERT INTO t4 VALUES('abc', 'def');
   INSERT INTO t4 VALUES('ghi', 'jkl');
 }
} {}
do_test func-13.3 {
 execsql {
   SELECT test_auxdata('hello world') FROM t4;
 }
} {0 1}
do_test func-13.4 {
 execsql {
   SELECT test_auxdata('hello world', 123) FROM t4;
 }
} {{0 0} {1 1}}
do_test func-13.5 {
 execsql {
   SELECT test_auxdata('hello world', a) FROM t4;
 }
} {{0 0} {1 0}}
do_test func-13.6 {
 execsql {
   SELECT test_auxdata('hello'||'world', a) FROM t4;
 }
} {{0 0} {1 0}}

# Test that auxilary data is preserved between calls for SQL variables.
do_test func-13.7 {
 set DB [sqlite3_connection_pointer db]
 set sql "SELECT test_auxdata( ? , a ) FROM t4;"
 set STMT [sqlite3_prepare $DB $sql -1 TAIL]
 sqlite3_bind_text $STMT 1 hello\000 -1
 set res [list]
 while { "SQLITE_ROW"==[sqlite3_step $STMT] } {
   lappend res [sqlite3_column_text $STMT 0]
 }
```

```
 lappend res [sqlite3_finalize $STMT]
} {{0 0} {1 0} SQLITE_OK}

# Make sure that a function with a very long name is rejected
do_test func-14.1 {
 catch {
   db function [string repeat X 254] {return "hello"}
 }
} {0}
do_test func-14.2 {
 catch {
   db function [string repeat X 256] {return "hello"}
 }
} {1}

do_test func-15.1 {
 catchsql {select test_error(NULL)}
} {1 {}}
do_test func-15.2 {
 catchsql {select test_error('this is the error message')}
} {1 {this is the error message}}
do_test func-15.3 {
 catchsql {select test_error('this is the error message',12)}
} {1 {this is the error message}}
do_test func-15.4 {
 db errorcode
} {12}

# Test the quote function for BLOB and NULL values.
do_test func-16.1 {
 execsql {
   CREATE TABLE tbl2(a, b);
 }
 set STMT [sqlite3_prepare $::DB "INSERT INTO tbl2 VALUES(?, ?)" -1 TAIL]
 sqlite3_bind_blob $::STMT 1 abc 3
 sqlite3_step $::STMT
 sqlite3_finalize $::STMT
 execsql {
   SELECT quote(a), quote(b) FROM tbl2;
 }
} {X'616263' NULL}

# Correctly handle function error messages that include %.  Ticket #1354
#
do_test func-17.1 {
 proc testfunc1 args {error "Error %d with %s percents %p"}
 db function testfunc1 ::testfunc1
 catchsql {
```

```
  SELECT testfunc1(1,2,3);
 }
} {1 {Error %d with %s percents %p}}

# The SUM function should return integer results when all inputs are integer.
#
do_test func-18.1 {
 execsql {
  CREATE TABLE t5(x);
  INSERT INTO t5 VALUES(1);
  INSERT INTO t5 VALUES(-99);
  INSERT INTO t5 VALUES(10000);
  SELECT sum(x) FROM t5;
 }
} {9902}
ifcapable floatingpoint {
 do_test func-18.2 {
  execsql {
   INSERT INTO t5 VALUES(0.0);
   SELECT sum(x) FROM t5;
  }
 } {9902.0}
}

# The sum of nothing is NULL.  But the sum of all NULLs is NULL.
#
# The TOTAL of nothing is 0.0.
#
do_test func-18.3 {
 execsql {
  DELETE FROM t5;
  SELECT sum(x), total(x) FROM t5;
 }
} {{} 0.0}
do_test func-18.4 {
 execsql {
  INSERT INTO t5 VALUES(NULL);
  SELECT sum(x), total(x) FROM t5
 }
} {{} 0.0}
do_test func-18.5 {
 execsql {
  INSERT INTO t5 VALUES(NULL);
  SELECT sum(x), total(x) FROM t5
 }
} {{} 0.0}
do_test func-18.6 {
 execsql {
```

```
  INSERT INTO t5 VALUES(123);
  SELECT sum(x), total(x) FROM t5
 }
} {123 123.0}

# Ticket #1664, #1669, #1670, #1674: An integer overflow on SUM causes
# an error. The non-standard TOTAL() function continues to give a helpful
# result.
#
do_test func-18.10 {
 execsql {
  CREATE TABLE t6(x INTEGER);
  INSERT INTO t6 VALUES(1);
  INSERT INTO t6 VALUES(1<<62);
  SELECT sum(x) - ((1<<62)+1) from t6;
 }
} 0
do_test func-18.11 {
 execsql {
  SELECT typeof(sum(x)) FROM t6
 }
} integer
ifcapable floatingpoint {
 do_test func-18.12 {
  catchsql {
   INSERT INTO t6 VALUES(1<<62);
   SELECT sum(x) - ((1<<62)*2.0+1) from t6;
  }
 } {1 {integer overflow}}
 do_test func-18.13 {
  execsql {
   SELECT total(x) - ((1<<62)*2.0+1) FROM t6
  }
 } 0.0
}
ifcapable !floatingpoint {
 do_test func-18.12 {
  catchsql {
   INSERT INTO t6 VALUES(1<<62);
   SELECT sum(x) - ((1<<62)*2+1) from t6;
  }
 } {1 {integer overflow}}
 do_test func-18.13 {
  execsql {
   SELECT total(x) - ((1<<62)*2+1) FROM t6
  }
 } 0.0
}
```

```
if {[working_64bit_int]} {
 do_test func-18.14 {
   execsql {
     SELECT sum(-9223372036854775805);
   }
 } -9223372036854775805
}
ifcapable compound&&subquery {

do_test func-18.15 {
 catchsql {
   SELECT sum(x) FROM
     (SELECT 9223372036854775807 AS x UNION ALL
      SELECT 10 AS x);
 }
} {1 {integer overflow}}
if {[working_64bit_int]} {
 do_test func-18.16 {
   catchsql {
     SELECT sum(x) FROM
       (SELECT 9223372036854775807 AS x UNION ALL
        SELECT -10 AS x);
   }
 } {0 9223372036854775797}
 do_test func-18.17 {
   catchsql {
     SELECT sum(x) FROM
       (SELECT -9223372036854775807 AS x UNION ALL
        SELECT 10 AS x);
   }
 } {0 -9223372036854775797}
}
do_test func-18.18 {
 catchsql {
   SELECT sum(x) FROM
     (SELECT -9223372036854775807 AS x UNION ALL
      SELECT -10 AS x);
 }
} {1 {integer overflow}}
do_test func-18.19 {
 catchsql {
   SELECT sum(x) FROM (SELECT 9 AS x UNION ALL SELECT -10 AS x);
 }
} {0 -1}
do_test func-18.20 {
 catchsql {
   SELECT sum(x) FROM (SELECT -9 AS x UNION ALL SELECT 10 AS x);
 }
```

```
} {0 1}
do_test func-18.21 {
 catchsql {
   SELECT sum(x) FROM (SELECT -10 AS x UNION ALL SELECT 9 AS x);
 }
} {0 -1}
do_test func-18.22 {
 catchsql {
   SELECT sum(x) FROM (SELECT 10 AS x UNION ALL SELECT -9 AS x);
 }
} {0 1}

} ;# ifcapable compound&&subquery

# Integer overflow on abs()
#
if {[working_64bit_int]} {
 do_test func-18.31 {
   catchsql {
     SELECT abs(-9223372036854775807);
   }
 } {0 9223372036854775807}
}
do_test func-18.32 {
 catchsql {
   SELECT abs(-9223372036854775807-1);
 }
} {1 {integer overflow}}

# The MATCH function exists but is only a stub and always throws an error.
#
do_test func-19.1 {
 execsql {
   SELECT match(a,b) FROM t1 WHERE 0;
 }
} {}
do_test func-19.2 {
 catchsql {
   SELECT 'abc' MATCH 'xyz';
 }
} {1 {unable to use function MATCH in the requested context}}
do_test func-19.3 {
 catchsql {
   SELECT 'abc' NOT MATCH 'xyz';
 }
} {1 {unable to use function MATCH in the requested context}}
do_test func-19.4 {
 catchsql {
```

```
  SELECT match(1,2,3);
 }
} {1 {wrong number of arguments to function match()}}

# Soundex tests.
#
if {![catch {db eval {SELECT soundex('hello')}}]} {
 set i 0
 foreach {name sdx} {
  euler        E460
  EULER        E460
  Euler        E460
  ellery       E460
  gauss        G200
  ghosh        G200
  hilbert      H416
  Heilbronn    H416
  knuth        K530
  kant         K530
  Lloyd        L300
  LADD         L300
  Lukasiewicz  L222
  Lissajous    L222
  A            A000
  12345        ?000
 } {
  incr i
  do_test func-20.$i {
    execsql {SELECT soundex($name)}
  } $sdx
 }
}

# Tests of the REPLACE function.
#
do_test func-21.1 {
 catchsql {
  SELECT replace(1,2);
 }
} {1 {wrong number of arguments to function replace()}}
do_test func-21.2 {
 catchsql {
  SELECT replace(1,2,3,4);
 }
} {1 {wrong number of arguments to function replace()}}
do_test func-21.3 {
 execsql {
  SELECT typeof(replace("This is the main test string", NULL, "ALT"));
```

```
 }
} {null}
do_test func-21.4 {
 execsql {
   SELECT typeof(replace(NULL, "main", "ALT"));
 }
} {null}
do_test func-21.5 {
 execsql {
   SELECT typeof(replace("This is the main test string", "main", NULL));
 }
} {null}
do_test func-21.6 {
 execsql {
   SELECT replace("This is the main test string", "main", "ALT");
 }
} {{This is the ALT test string}}
do_test func-21.7 {
 execsql {
   SELECT replace("This is the main test string", "main", "larger-main");
 }
} {{This is the larger-main test string}}
do_test func-21.8 {
 execsql {
   SELECT replace("aaaaaaa", "a", "0123456789");
 }
} {01234567890123456789012345678901234567890123456789012345678901234567890123456789}

ifcapable tclvar {
 do_test func-21.9 {
   # Attempt to exploit a buffer-overflow that at one time existed
   # in the REPLACE function.
   set ::str "[string repeat A 29998]CC[string repeat A 35537]"
   set ::rep [string repeat B 65536]
   execsql {
     SELECT LENGTH(REPLACE($::str, 'C', $::rep));
   }
 } [expr 29998 + 2*65536 + 35537]
}

# Tests for the TRIM, LTRIM and RTRIM functions.
#
do_test func-22.1 {
 catchsql {SELECT trim(1,2,3)}
} {1 {wrong number of arguments to function trim()}}
do_test func-22.2 {
 catchsql {SELECT ltrim(1,2,3)}
} {1 {wrong number of arguments to function ltrim()}}
```

```
do_test func-22.3 {
 catchsql {SELECT rtrim(1,2,3)}
} {1 {wrong number of arguments to function rtrim()}}
do_test func-22.4 {
 execsql {SELECT trim('  hi  ');}
} {hi}
do_test func-22.5 {
 execsql {SELECT ltrim('  hi  ');}
} {{hi  }}
do_test func-22.6 {
 execsql {SELECT rtrim('  hi  ');}
} {{  hi}}
do_test func-22.7 {
 execsql {SELECT trim('  hi  ','xyz');}
} {{  hi  }}
do_test func-22.8 {
 execsql {SELECT ltrim('  hi  ','xyz');}
} {{  hi  }}
do_test func-22.9 {
 execsql {SELECT rtrim('  hi  ','xyz');}
} {{  hi  }}
do_test func-22.10 {
 execsql {SELECT trim('xyxzy  hi  zzzy','xyz');}
} {{  hi  }}
do_test func-22.11 {
 execsql {SELECT ltrim('xyxzy  hi  zzzy','xyz');}
} {{  hi  zzzy}}
do_test func-22.12 {
 execsql {SELECT rtrim('xyxzy  hi  zzzy','xyz');}
} {{xyxzy  hi  }}
do_test func-22.13 {
 execsql {SELECT trim('  hi  ','');}
} {{  hi  }}
if {[db one {PRAGMA encoding}]=="UTF-8"} {
 do_test func-22.14 {
   execsql {SELECT hex(trim(x'c280e1bfbff48fbfbf6869',x'6162e1bfbfc280'))}
 } {F48FBFBF6869}
 do_test func-22.15 {
   execsql {SELECT hex(trim(x'6869c280e1bfbff48fbfbf61',
                            x'6162e1bfbfc280f48fbfbf'))}
 } {6869}
 do_test func-22.16 {
   execsql {SELECT hex(trim(x'ceb1ceb2ceb3',x'ceb1'));}
 } {CEB2CEB3}
}
do_test func-22.20 {
 execsql {SELECT typeof(trim(NULL));}
} {null}
```

```
do_test func-22.21 {
 execsql {SELECT typeof(trim(NULL,'xyz'));}
} {null}
do_test func-22.22 {
 execsql {SELECT typeof(trim('hello',NULL));}
} {null}

# This is to test the deprecated sqlite3_aggregate_count() API.
#
ifcapable deprecated {
 do_test func-23.1 {
   sqlite3_create_aggregate db
   execsql {
     SELECT legacy_count() FROM t6;
   }
 } {3}
}

# The group_concat() function.
#
do_test func-24.1 {
 execsql {
   SELECT group_concat(t1) FROM tbl1
 }
} {this,program,is,free,software}
do_test func-24.2 {
 execsql {
   SELECT group_concat(t1,' ') FROM tbl1
 }
} {{this program is free software}}
do_test func-24.3 {
 execsql {
   SELECT group_concat(t1,' ' || rowid || ' ') FROM tbl1
 }
} {{this 2 program 3 is 4 free 5 software}}
do_test func-24.4 {
 execsql {
   SELECT group_concat(NULL,t1) FROM tbl1
 }
} {{}}
do_test func-24.5 {
 execsql {
   SELECT group_concat(t1,NULL) FROM tbl1
 }
} {thisprogramisfreesoftware}
do_test func-24.6 {
 execsql {
   SELECT 'BEGIN-'||group_concat(t1) FROM tbl1
```

```
 }
} {BEGIN-this,program,is,free,software}

# Ticket #3179:  Make sure aggregate functions can take many arguments.
# None of the built-in aggregates do this, so use the md5sum() from the
# test extensions.
#
unset -nocomplain midargs
set midargs {}
unset -nocomplain midres
set midres {}
unset -nocomplain result
for {set i 1} {$i<[sqlite3_limit db SQLITE_LIMIT_FUNCTION_ARG -1]} {incr i} {
 append midargs ,'/$i'
 append midres /$i
 set result [md5 \
    "this${midres}program${midres}is${midres}free${midres}software${midres}"]
 set sql "SELECT md5sum(t1$midargs) FROM tbl1"
 do_test func-24.7.$i {
    db eval $::sql
 } $result
}

# Ticket #3806.  If the initial string in a group_concat is an empty
# string, the separator that follows should still be present.
#
do_test func-24.8 {
 execsql {
   SELECT group_concat(CASE t1 WHEN 'this' THEN '' ELSE t1 END) FROM tbl1
 }
} {,program,is,free,software}
do_test func-24.9 {
 execsql {
   SELECT group_concat(CASE WHEN t1!='software' THEN '' ELSE t1 END) FROM tbl1
 }
} {,,,,software}

# Ticket #3923.  Initial empty strings have a separator.  But initial
# NULLs do not.
#
do_test func-24.10 {
 execsql {
   SELECT group_concat(CASE t1 WHEN 'this' THEN null ELSE t1 END) FROM tbl1
 }
} {program,is,free,software}
do_test func-24.11 {
 execsql {
  SELECT group_concat(CASE WHEN t1!='software' THEN null ELSE t1 END) FROM tbl1
```

```
 }
} {software}
do_test func-24.12 {
 execsql {
   SELECT group_concat(CASE t1 WHEN 'this' THEN "
                      WHEN 'program' THEN null ELSE t1 END) FROM tbl1
 }
} {,is,free,software}


# Use the test_isolation function to make sure that type conversions
# on function arguments do not effect subsequent arguments.
#
do_test func-25.1 {
 execsql {SELECT test_isolation(t1,t1) FROM tbl1}
} {this program is free software}

# Try to misuse the sqlite3_create_function() interface.  Verify that
# errors are returned.
#
do_test func-26.1 {
 abuse_create_function db
} {}

# The previous test (func-26.1) registered a function with a very long
# function name that takes many arguments and always returns NULL.  Verify
# that this function works correctly.
#
do_test func-26.2 {
 set a {}
 for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG} {incr i} {
   lappend a $i
 }
 db eval "
    SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
 "
} {{}}
do_test func-26.3 {
 set a {}
 for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG+1} {incr i} {
   lappend a $i
 }
 catchsql "
    SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
```

```
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
 "
} {1 {too many arguments on function
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789}}
do_test func-26.4 {
 set a {}
 for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG-1} {incr i} {
   lappend a $i
 }
 catchsql "
    SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
 "
} {1 {wrong number of arguments to function
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789()}}
do_test func-26.5 {
 catchsql "
    SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_12345678a(0);
 "
} {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_12345678a}}
do_test func-26.6 {
 catchsql "
    SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789a(0);
 "
} {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789a}}

do_test func-27.1 {
 catchsql {SELECT coalesce()}
} {1 {wrong number of arguments to function coalesce()}}
```

```
do_test func-27.2 {
 catchsql {SELECT coalesce(1)}
} {1 {wrong number of arguments to function coalesce()}}
do_test func-27.3 {
 catchsql {SELECT coalesce(1,2)}
} {0 1}

# Ticket 2d401a94287b5
# Unknown function in a DEFAULT expression causes a segfault.
#
do_test func-28.1 {
 db eval {
   CREATE TABLE t28(x, y DEFAULT(nosuchfunc(1)));
 }
 catchsql {
   INSERT INTO t28(x) VALUES(1);
 }
} {1 {unknown function: nosuchfunc()}}

# Verify that the length() and typeof() functions do not actually load
# the content of their argument.
#
do_test func-29.1 {
 db eval {
   CREATE TABLE t29(id INTEGER PRIMARY KEY, x, y);
   INSERT INTO t29 VALUES(1, 2, 3), (2, NULL, 4), (3, 4.5, 5);
   INSERT INTO t29 VALUES(4, randomblob(1000000), 6);
   INSERT INTO t29 VALUES(5, "hello", 7);
 }
 db close
 sqlite3 db test.db
 sqlite3_db_status db CACHE_MISS 1
 db eval {SELECT typeof(x), length(x), typeof(y) FROM t29 ORDER BY id}
} {integer 1 integer null {} integer real 3 integer blob 1000000 integer text 5 integer}
do_test func-29.2 {
 set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
 if {$x<5} {set x 1}
 set x
} {1}
do_test func-29.3 {
 db close
 sqlite3 db test.db
 sqlite3_db_status db CACHE_MISS 1
 db eval {SELECT typeof(+x) FROM t29 ORDER BY id}
} {integer null real blob text}
if {[permutation] != "mmap"} {
 do_test func-29.4 {
   set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
```

```
  if {$x>100} {set x many}
  set x
 } {many}
}
do_test func-29.5 {
 db close
 sqlite3 db test.db
 sqlite3_db_status db CACHE_MISS 1
 db eval {SELECT sum(length(x)) FROM t29}
} {1000009}
do_test func-29.6 {
 set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
 if {$x<5} {set x 1}
 set x
} {1}

do_execsql_test func-30.1 {SELECT unicode('$');} 36
do_execsql_test func-30.2 [subst {SELECT unicode('\u00A2');}] 162
do_execsql_test func-30.3 [subst {SELECT unicode('\u20AC');}] 8364
do_execsql_test func-30.4 {SELECT char(36,162,8364);} [subst {$\u00A2\u20AC}]

for {set i 1} {$i<0xd800} {incr i 13} {
 do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
for {set i 57344} {$i<=0xfffd} {incr i 17} {
 if {$i==0xfeff} continue
 do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
for {set i 65536} {$i<=0x10ffff} {incr i 139} {
 do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}

finish_test
```

Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-src-3071700.zip-cosi-expand-archive-cheW8kUH/sqlite-src-3071700/test/func.test
No license file was found, but licenses were detected in source scan.

```
# 2006 September 14
#
# The author disclaims copyright to this source code.  In place of
# a legal notice, here is a blessing:
#
#    May you do good and not evil.
#    May you find forgiveness for yourself and forgive others.
#    May you share freely, never taking more than you give.
#
```

```
#***************************************************************************
# This file implements regression tests for SQLite library.  The
# focus of this script is testing the FTS3 module.
#
# $Id: fts3ac.test,v 1.1 2007/08/20 17:38:42 shess Exp $
#

set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS3 is defined, omit this file.
ifcapable !fts3 {
 finish_test
 return
}

# Create a table of sample email data.   The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
#
do_test fts3ac-1.1 {
 db eval {
   CREATE VIRTUAL TABLE email USING fts3([from],[to],subject,body);
   BEGIN TRANSACTION;
INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com,
traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following
changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent
product. See rules below:

? If the transaction volume on the child is less than half of the parent"s minimum volume no hedge will occur.
? If the transaction volume on the child is more than half the parent"s minimum volume but less than half the volume
increment on the parent, the hedge will volume will be the parent"s minimum volume.
? For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent"s Settings:
Minimum:  5000
Increment:  1000

Volume on Autohedge transaction   Volume Hedged
1      - 2499       0
2500 - 5499       5000
5500 - 6499       6000');
INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com,
lisa.king@enron.com, lisa.best@enron.com,', 'Leaving Early', 'FYI:
```

If it''s ok with everyone''s needs, I would like to leave @4pm. If you think
you will need my assistance past the 4 o''clock hour just let me know; I''ll
be more than willing to stay.');
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com',
'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready
for approval:

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com');
INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work
request', 'Julie,

Could you print off the current work request report by 1:30 today?

Gentlemen,

I''d like to review this today at 1:30 in our office. Also, could you provide
me with your activity reports so I can have Julie enter this information.

JD');
INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com,
scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....
http://biz.yahoo.com/rf/010129/n29305829.html');
INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com',
'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');
INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW:
Producers Newsletter 9-24-2001', '
The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent: Tuesday, October 16, 2001 3:42 PM
To: Carter, Karen E.
Subject: FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent: Friday, September 21, 2001 8:33 PM
Subject: Producers Newsletter 9-24-2001

');
INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com',
'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would
be to offer up the Falcon for their use; however, given the tight time frame
and your recent visit with Mr. Fox that it would be difficult for either you
or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');
INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com',
'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent: Wednesday, September 26, 2001 7:50 AM
To: Fenceroy, LaChandra
Subject: FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent: Tuesday, September 25, 2001 2:41 PM
To: Bisbee, Joanne
Subject: Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');
INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com',
'RE: worksheets', 'Fran,
  If Julie''s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd''s sheets as well.

Thanks.
Dan

-----Original Message-----
From: Fagan, Fran
Sent: Thursday, December 20, 2001 11:10 AM
To: McCarty, Danny
Subject: worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

');
INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT');
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com,', 'TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y&current_efct_date=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.');
INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our
credit guy, Russell Diamond.

Thank for your help!');
INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.');
INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');
INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,
Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.
In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.
Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com
THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.
- OUTAGE.dbf
- 111201R.xls
- 111201.xls ');
INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com', 'all_ena_egm_eim@enron.com', 'EWS Brown Bag', 'MARK YOUR LUNCH CALENDARS NOW !

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610');
INSERT INTO email([from],[to],subject,body) VALUES('chris.germany@enron.com', 'ingrid.immer@williams.com', 'Re: About St Pauls', 'Sounds good to me. I bet this is next to the Warick?? Hotel.

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: ""chris.germany@enron.com"" <chris.germany@enron.com>

cc:
Subject: About St Pauls

<<About St Pauls.url>>
?
?http://www.stpaulshouston.org/about.html

Chris,

I like the looks of this place.? What do you think about going here Christmas
eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m.,
among others.

Let me know.?? ii

- About St Pauls.url

');
INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com, kmccrea@sablaw.com, thompson@wrightlaw.com,', 'Reply Brief filed July 31, 2000', ' - CPUC01-#76371-v1-Revised_Reply_Brief__Due_today_7_31_.doc');
INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder
As discussed in the Winter Operations Meeting on Sept.29,2000,
E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC.
Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy
chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.
');
INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com', '', '

Here is a goody for you');
INSERT INTO email([from],[to],subject,body) VALUES('ryan.o''rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com,', 'TRV Notification: (West VaR - 11/07/2001)', 'The report named: West VaR
<http://trv.corp.enron.com/linkFromExcel.asp?report_cd=36&report_name=West+VaR&category_cd=2&category_name=WEST&toc_hide=1&sTV1=2&TV1Exp=Y&current_efct_date=11/07/2001>, published as of 11/07/2001 is now available for viewing on the website.');
INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, ggreen2@txu.com, timpowell@txu.com,', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap	10.000 / Enron ; 110.000 / HPL IFERC

LS HPL LSK IC	30.000 / Enron
');

INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira');
INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn''t know how deep to go with the desk. Do you think this works.

');
INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', '', 'George,
Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160');
INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');
INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295');
INSERT INTO email([from],[to],subject,body) VALUES('matt.smith@enron.com', 'yan.wang@enron.com', 'Report Formats', 'Yan,

The merged reports look great. I believe the only orientation changes are to
"unmerge" the following six reports:

31 Keystone Receipts

15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.');
INSERT INTO email([from],[to],subject,body) VALUES('michelle.lokay@enron.com', 'jimboman@bigfoot.com',
'Egyptian Festival', '---------- Forwarded by Michelle Lokay/ET&S/Enron on 09/07/2000
10:08 AM ----------

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: ""Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
<Leila_Mankarious@mhhs.org>, ""Marymankarious (E-mail)"
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy
Mankarious (E-mail)" <Mankarious@aol.com>
cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url
');
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com',
'sherry.dawson@enron.com', 'Urgent!!! --- New EAST books', 'This has to be done.....

Thanks
---------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000
08:39 AM ----------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David
Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R
Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra

Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal : East Northeast
Dick Jenkins: East Marketeast

WK
');
INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');
INSERT INTO email([from],[to],subject,body) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re: Light reading - see pieces beginning on page 7', 'John,

I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc:
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com', 'mmmarcantel@equiva.com', 'RE:', 'i will try to line up a pig for you ');
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com, judy.martinez@enron.com,', 'Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760');
INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this
product out ASAP.

Thanks,

Eric');
INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm..tholt@enron.com',

'10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE]
[IMAGE][IMAGE][IMAGE]
Dear SmartReminders Member,
[IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]

We respect your privacy and are a Certified Participant of the BBBOnLine
Privacy Program. To be removed from future offers,click here.
SmartReminders.com is a permission based service. To unsubscribe click here . ');
INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com',
'mark.bernstein@enron.com', '', 'The guy you are talking about left CIN under a "cloud of suspicion" sort of
speak. He was the one who got into several bad deals and PPA"s in California
for CIN, thus he left on a bad note. Let me know if you need more detail
than that, I felt this was the type of info you were looking for. Thanks!
Ben');
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com',
'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash
Report Name: Houston Cellular 8-11-01
Report Date: 12/13/01
Report ID: 594D37C9ED2111D5B452
Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.');
INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com,
mark.palmer@enron.com, karen.denne@enron.com,', 'CAISO Emergency Motion -- to discontinue market-based
rates for', 'FYI. the latest broadside against the generators.

Sue Mara

Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: ""smara@enron.com"" <smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie

http://www.caiso.com/docs/2001/06/08/200106081005526469.pdf
');
INSERT INTO email([from],[to],subject,body) VALUES('fletcher.sturm@enron.com', 'eloy.escobar@enron.com', 'Re: General Brinks Position Meeting', 'Eloy,

Who is General Brinks?

Fletch');
INSERT INTO email([from],[to],subject,body) VALUES('nailia.dindarova@enron.com', 'richard.shapiro@enron.com', 'Documents for Mark Frevert (on EU developments and lessons from', 'Rick,

Here are the documents that Peter has prepared for Mark Frevert.

Nailia
---------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001 16:36 ----------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert.
He has now handed them to him in person but asked me to transmit them
electronically to you, as well as Eric and Ross.

Nailia

');
INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com',
'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
Finalize market analysis to refine business case, specifically
projected revenue stream
Complete counterparty surveying, including targeting 3 CPs for letters
of intent
Review Enron asset base for potential reuse/ licensing
Contract negotiations

Joe will come back to us with an updated time line, but it is my
expectation that we are still on the same schedule (we just begun week
three) with possibly a week or so slippage.....contract negotiations will
probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)
- accenture-dealpoints v2.doc ');
INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com',
'Re: Guadalupe Power Partners LP', '---------------------- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001
03:49 PM ----------------------------

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at

either HSC, Waha or Katytailgate GD at buyers option three days prior to
NYMEX close.

');
INSERT INTO email([from],[to],subject,body) VALUES('judy.townsend@enron.com', 'dan.junek@enron.com,
chris.germany@enron.com', 'Columbia Distribution"s Capacity Available for Release - Sum', '----------
Forwarded by Judy Townsend/HOU/ECT on 03/09/2001 11:04
AM ----------

agoddard@nisource.com on 03/08/2001 09:16:57 AM
To: " - *Koch, Kent" <kkoch@nisource.com>, " -
*Millar, Debra" <dmillar@nisource.com>, " - *Burke, Lynn"
<lburke@nisource.com>
cc: " - *Heckathorn, Tom" <theckathorn@nisource.com>
Subject: Columbia Distribution"s Capacity Available for Release - Sum

Attached is Columbia Distribution"s notice of capacity available for release
for
the summer of 2001 (Apr. 2001 through Oct. 2001).

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives
listed
at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc
');
INSERT INTO email([from],[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com,
dana.davis@enron.com, genia.fitzgerald@enron.com,', 'Split Rock Energy LLC', 'We have received the executed
EEI contract from this CP dated 12/12/2000.
Copies will be distributed to Legal and Credit.');
INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com,
crow@millernash.com, michaelearly@earthlink.net,', 'Oral Argument Request', ' - Oral Argument Request.doc');
INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com', '',
'Did you come in town this wk end..... My new number at our house is :
713-668-3712..... my cell # is 281-381-7332

the kid');
INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com',
'FW: Contact Info', '

-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

Its been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.
');
INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com,', 'email address change', 'Hello all.

I haven''t talked to many of you via email recently but I do want to give you
my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I''m hearing there is some hold-up & the units are stored on 44.

Shelley');
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com,', '2001 Enron Law Conference (Distribution List 2)', ' Enron Law Conference

San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an
Online RSVP Form on the Enron Law Conference Website at

http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

');
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i''ll call pat and let him know - we are coming on saturday - i just havent had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,

I''ll get it done today.

DG 3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');
INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com', 'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson

PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey');
INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com', 'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com,', 'Postings', 'Please see the attached.

ds

');
INSERT INTO email([from],[to],subject,body) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com, james_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will
have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation.
I wasn"t sure whether he transmitted them to you as well. Would you please
advise me if you would like them sent to you? I can email the MS Excel files
or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email,
or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL"s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com');
INSERT INTO email([from],[to],subject,body) VALUES('phillip.love@enron.com', 'todagost@utmb.edu, gbsonnta@utmb.edu', 'New President', 'I had a little bird put a word in my ear. Is there any possibility for Ben Raimer to be Bush"s secretary of HHS? Just curious about that infamous UTMB
rumor mill. Hope things are well, happy holidays.

PL');
INSERT INTO email([from],[to],subject,body) VALUES('marie.heard@enron.com', 'ehamilton@fna.com', 'ISDA Master Agreement', 'Erin:

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

');
INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

');
INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com,', 'Price List week of Oct. 8-9, 2001', '
Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

');
INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com', 'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.');
INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com', 'RE: Constellation TC 5-7-01', 'Gregg,

I am at home with a sick baby. (Lots of fun!) I will call you about this
tomorrow.

Stacy');
INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', '', 'hey big guy.....check this out.....

w ww.gorelieberman-2000.com/');
INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqestc@aol.com', '', 'Jacques,

I sent you a fax of Kevin Kolb''s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)).
This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip');
INSERT INTO email([from],[to],subject,body) VALUES('kourtney.nelson@enron.com', 'mike.swerzbin@enron.com', 'Adjusted L/R Balance', 'Mike,

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
 -Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com');
INSERT INTO email([from],[to],subject,body) VALUES('d..thomas@enron.com', 'naveed.ahmed@enron.com', 'FW: Current Enron TCC Portfolio', '

-----Original Message-----

From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY"s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:08 AM
To: Grace, Rebecca M.
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',
'william.bradford@enron.com, debbie.brackett@enron.com,', 'Coastal Merchant Energy/El Paso Merchant Energy',

'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy, L.P., effective February 1, 2001, with the surviving entity being El Paso Merchant Energy, L.P. We currently have ISDA Master Agreements with both counterparties. Please see the attached memo regarding the existing Masters and let us know which agreement should be terminated.

Thanks,
Stephanie
');
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE: What about this too???', '

-----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>
');
INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com', 'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');
INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com', 'jworman@academyofhealth.com', '', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490');
INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', '', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY: APPOINTMENT

Description:
 Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:');
INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as
soon as Enron has done the due diligence for this country.
Thanks !

Best regards

Diana Seifert
EOL PCG');
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'mark.whitt@enron.com', '<<Concur Expense Document>> - 121001', 'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com');
INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.');
INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com', 'RE:', 'duke contact?

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 10:14 AM
To: Storey, Geoff
Subject: RE:

bp corp Albert LaMore 281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent: Wednesday, October 31, 2001 10:10 AM
To: Quigley, Dutch
Subject: RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject:

Coral Jeff Whitnah 713-767-5374
Relaint Steve McGinn 713-207-4000');
INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start Date: 4/22/01; HourAhead hour: 3; <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3; No ancillary schedules awarded.
Variances detected.
Variances detected in Load schedule.

LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.
  Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)
 TRANS_TYPE: FINAL
 LOAD_ID: PGE4
 MKT_TYPE: 2
 TRANS_DATE: 4/22/01
 SC_ID: EPMI

');
INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com', 'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com', 'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you,
but others) after our phone call is a result of the week. I"m seeing Glen at
11:15....talk to you');
INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', '
This week"s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebytztoolzprint.jpg');
  COMMIT;
 }
} {}

##
Everything above just builds an interesting test database. The actual
tests come after this comment.
##

```
do_test fts3ac-1.2 {
 execsql {
  SELECT rowid FROM email WHERE email MATCH 'mark'
 }
} {6 17 25 38 40 42 73 74}
do_test fts3ac-1.3 {
 execsql {
  SELECT rowid FROM email WHERE email MATCH 'susan'
 }
} {24 40}
do_test fts3ac-1.4 {
 execsql {
  SELECT rowid FROM email WHERE email MATCH 'mark susan'
 }
} {40}
do_test fts3ac-1.5 {
 execsql {
  SELECT rowid FROM email WHERE email MATCH 'susan mark'
 }
} {40}
do_test fts3ac-1.6 {
 execsql {
  SELECT rowid FROM email WHERE email MATCH '"mark susan"'
 }
} {}
do_test fts3ac-1.7 {
 execsql {
  SELECT rowid FROM email WHERE email MATCH 'mark -susan'
 }
} {6 17 25 38 42 73 74}
do_test fts3ac-1.8 {
 execsql {
  SELECT rowid FROM email WHERE email MATCH '-mark susan'
 }
} {24}
do_test fts3ac-1.9 {
 execsql {
  SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
 }
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column.  In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts3ac-2.1 {
 execsql {
```

```
  SELECT rowid, offsets(email) FROM email
   WHERE email MATCH 'gas reminder'
 }
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.2 {
 execsql {
  SELECT rowid, offsets(email) FROM email
   WHERE email MATCH 'subject:gas reminder'
 }
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts3ac-2.3 {
 execsql {
  SELECT rowid, offsets(email) FROM email
   WHERE email MATCH 'body:gas reminder'
 }
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.4 {
 execsql {
  SELECT rowid, offsets(email) FROM email
   WHERE subject MATCH 'gas reminder'
 }
} {20 {2 0 42 3 2 1 54 8}}
do_test fts3ac-2.5 {
 execsql {
  SELECT rowid, offsets(email) FROM email
   WHERE body MATCH 'gas reminder'
 }
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

# Document 32 contains 5 instances of the world "child".  But only
# 3 of them are paired with "product".  Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts3ac-3.1 {
 execsql {
  SELECT rowid, offsets(email) FROM email
   WHERE body MATCH 'child product' AND +rowid=32
 }
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts3ac-3.2 {
 execsql {
  SELECT rowid, offsets(email) FROM email
   WHERE body MATCH '"child product"'
 }
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

# Snippet generator tests
#
```

```
do_test fts3ac-4.1 {
 execsql {
   SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
 }
} {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts3ac-4.2 {
 execsql {
   SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
 }
} {{<b>...</b>here <b>Christmas</b>
eve?? They have an 11:00 a.m. service and a <b>candlelight</b> service<b>...</b>}}

do_test fts3ac-4.3 {
 execsql {
   SELECT snippet(email) FROM email
    WHERE email MATCH 'deal sheet potential reuse'
 }
} {{EOL-Accenture <b>Deal</b> <b>Sheet</b><b>...</b>asset base for <b>potential</b> <b>reuse</b>/ licensing
    Contract negotiations<b>...</b>}}
do_test fts3ac-4.4 {
 execsql {
   SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
 }
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> asset base for <<<potential>>> <<<reuse>>>/ licensing
    Contract negotiations }}
do_test fts3ac-4.5 {
 execsql {
   SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'first things'
 }
} {{Re: <<<First>>> Polish Deal! Congrats!  <<<Things>>> seem to be building rapidly now }}
do_test fts3ac-4.6 {
 execsql {
   SELECT snippet(email) FROM email
    WHERE email MATCH 'chris is here'
 }
} {{<b>...</b><b>chris</b>.germany@enron.com'" <<b>chris</b><b>...</b>bet this <b>is</b> next
to<b>...</b>about going <b>here</b> Christmas
eve<b>...</b>}}
do_test fts3ac-4.7 {
 execsql {
   SELECT snippet(email) FROM email
    WHERE email MATCH '"pursuant to"'
 }
} {{Erin:
```

```
<b>Pursuant</b> <b>to</b> your request, attached are the Schedule to the ISDA Master Agreement,
together<b>...</b>}}
do_test fts3ac-4.8 {
 execsql {
   SELECT snippet(email) FROM email
    WHERE email MATCH 'ancillary load davis'
 }
} {{pete.<b>davis</b>@enron.com<b>...</b>3;  No <b>ancillary</b> schedules awarded<b>...</b>detected in
<b>Load</b> schedule.

   LOG<b>...</b>}}

# Combinations of AND and OR operators:
#
do_test fts3ac-5.1 {
 execsql {
   SELECT snippet(email) FROM email
    WHERE email MATCH 'questar enron OR com'
 }
} {{matt.smith@<b>enron</b>.<b>com</b><b>...</b>31 Keystone Receipts
15 <b>Questar</b> Pipeline
40 Rockies<b>...</b>}}

do_test fts3ac-5.2 {
 execsql {
   SELECT snippet(email) FROM email
    WHERE email MATCH 'enron OR com questar'
 }
} {{matt.smith@<b>enron</b>.<b>com</b><b>...</b>31 Keystone Receipts
15 <b>Questar</b> Pipeline
40 Rockies<b>...</b>}}

#-------------------------------------------------------------------------
# Test a problem reported on the mailing list.
#
do_test fts3ac-6.1 {
 execsql {
   CREATE VIRTUAL TABLE ft USING fts3(one, two);
   INSERT INTO ft VALUES('', 'foo');
   INSERT INTO ft VALUES('foo', 'foo');
   SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
 }
} {{1 0 0 3} {0 0 0 3 1 0 0 3}}
do_test fts3ac-6.2 {
 execsql {
   DELETE FROM ft WHERE one = 'foo';
   SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
```

}
} {{1 0 0 3}}

finish_test

Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-src-3071700.zip-cosi-expand-archive-cheW8kUH/sqlite-src-3071700/test/fts3ac.test
No license file was found, but licenses were detected in source scan.

%%Copyright: Copyright(C)2000-2006 Adobe Systems, Inc. All Rights Reserved.
%%Copyright: Copyright(C)1997-2007 Adobe Systems, Inc. All Rights Reserved.
%%BeginResource: procset Adobe_CoolType_Core 2.31 0

Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-src-3071700.zip-cosi-expand-archive-cheW8kUH/sqlite-src-3071700/art/sqlite370.eps
No license file was found, but licenses were detected in source scan.

SQLite is open source, and is available in the public domain

Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-doc-3071700.zip-cosi-expand-archive-r9EckcaZ/sqlite-doc-3071700/books.html
No license file was found, but licenses were detected in source scan.

application is free to use the same database connection or the

Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-doc-3071700.zip-cosi-expand-archive-r9EckcaZ/sqlite-doc-3071700/c3ref/c_config_covering_index_scan.html
No license file was found, but licenses were detected in source scan.

)putinterval

Found in path(s):
* 1 index 0(BadFont
No license file was found, but licenses were detected in source scan.

SQLite is high-quality, public domain software. The goal of
members can also request their own private, proprietary extensions

Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-doc-3071700.zip-cosi-expand-archive-r9EckcaZ/sqlite-doc-3071700/consortium.html
No license file was found, but licenses were detected in source scan.

Public Domain
public domain
the public domain and originals of
author, and all of those authors have public domain dedications
Even though SQLite is in the public domain and does not require
the public domain.
their contributions to the public domain.
in this code to the public domain. We make this dedication for the benefit

Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-doc-3071700.zip-cosi-expand-archive-r9EckcaZ/sqlite-doc-3071700/copyright.html
No license file was found, but licenses were detected in source scan.

is free to use SQLite from multiple threads, but it must make sure

Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-doc-3071700.zip-cosi-expand-archive-r9EckcaZ/sqlite-doc-3071700/custombuild.html
No license file was found, but licenses were detected in source scan.

Sources are in the public domain.
Rather than using fopen() to write XML or some proprietary format into

Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-doc-3071700.zip-cosi-expand-archive-r9EckcaZ/sqlite-doc-3071700/features.html
No license file was found, but licenses were detected in source scan.

/*
** The "printf" code that follows dates from the 1980's. It is in
** the public domain. The original comments are included here for
** completeness. They are very out-of-date but might be useful as
** an historical reference. Most of the "enhancements" have been backed
** out so that the functionality is now the same as standard printf().
**
****
**
** This file contains code for a set of "printf"-like routines. These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLlite.
*/

Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-src-3071700.zip-cosi-expand-archive-cheW8kUH/sqlite-src-3071700/src/printf.c

No license file was found, but licenses were detected in source scan.

Found in path(s):
* %%Copyright
No license file was found, but licenses were detected in source scan.

```
/*
** 2004 May 22
**
** The author disclaims copyright to this source code.  In place of
** a legal notice, here is a blessing:
**
**    May you do good and not evil.
**    May you find forgiveness for yourself and forgive others.
**    May you share freely, never taking more than you give.
**
******************************************************************************
**
** This file contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
**
** There are actually several different VFS implementations in this file.
** The differences are in the way that file locking is done.  The default
** implementation uses Posix Advisory Locks.  Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.
**
** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division.  PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT.  New code should be placed
** in the correct division and should be clearly labeled.
**
** The layout of divisions is as follows:
**
**   *  General-purpose declarations and utility functions.
**   *  Unique file ID logic used by VxWorks.
**   *  Various locking primitive implementations (all except proxy locking):
**      + for Posix Advisory Locks
**      + for no-op locks
**      + for dot-file locks
**      + for flock() locking
**      + for named semaphore locks (VxWorks only)
**      + for AFP filesystem locks (MacOSX only)
```

```
**   *  sqlite3_file methods not associated with locking.
**   *  Definitions of sqlite3_io_methods objects for all locking
**      methods plus "finder" functions for each locking method.
**   *  sqlite3_vfs method implementations.
**   *  Locking primitives for the proxy uber-locking-method. (MacOSX only)
**   *  Definitions of sqlite3_vfs objects for all locking methods
**      plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/
```

Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-src-3071700.zip-cosi-expand-archive-cheW8kUH/sqlite-src-3071700/src/os_unix.c
No license file was found, but licenses were detected in source scan.

```
%define name sqlite
%define version SQLITE_VERSION
%define release 1

Name: %{name}
Summary: SQLite is a C library that implements an embeddable SQL database engine
Version: %{version}
Release: %{release}
Source: %{name}-%{version}.tar.gz
Group: System/Libraries
URL: http://www.sqlite.org/
License: Public Domain
BuildRoot: %{_tmppath}/%{name}-%{version}-root

%description
SQLite is a software library that implements a self-contained, serverless,
zero-configuration, transactional SQL database engine.
Programs that link with the SQLite library can have SQL database access
without running a separate RDBMS process. The distribution comes with a
standalone command-line access program (sqlite) that can be used to
administer an SQLite database and which serves as an example of how to
use the SQLite library.

%package -n %{name}-devel
Summary: Header files and libraries for developing apps which will use sqlite
Group: Development/C
Requires: %{name} = %{version}-%{release}

%description -n %{name}-devel
The sqlite-devel package contains the header files and libraries needed
to develop programs that use the SQLite database library.

%prep
%setup -q -n %{name}
```

```
%build
CFLAGS="%optflags -DNDEBUG=1" CXXFLAGS="%optflags -DNDEBUG=1" ./configure --prefix=%{_prefix}

make
make doc

%install
install -d $RPM_BUILD_ROOT/%{_prefix}
install -d $RPM_BUILD_ROOT/%{_prefix}/bin
install -d $RPM_BUILD_ROOT/%{_prefix}/include
install -d $RPM_BUILD_ROOT/%{_prefix}/lib
make install prefix=$RPM_BUILD_ROOT/%{_prefix}

%post -p /sbin/ldconfig

%postun -p /sbin/ldconfig

%clean
rm -fr $RPM_BUILD_ROOT

%files
%defattr(-, root, root)
%{_libdir}/*.so*
%{_bindir}/*

%files -n %{name}-devel
%defattr(-, root, root)
%{_libdir}/pkgconfig/sqlite3.pc
%{_libdir}/*.a
%{_libdir}/*.la
%{_includedir}/*
%doc doc/*

Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-
lltKQC5N/sqlite-src-3071700.zip-cosi-expand-archive-cheW8kUH/sqlite-src-3071700/spec.template
No license file was found, but licenses were detected in source scan.

# 2006 October 1
#
# The author disclaims copyright to this source code.  In place of
# a legal notice, here is a blessing:
#
#    May you do good and not evil.
#    May you find forgiveness for yourself and forgive others.
#    May you share freely, never taking more than you give.
#
```

```
#***********************************************************************
# This file implements regression tests for SQLite library.  The
# focus of this script is testing the FTS1 module, and in particular
# the Porter stemmer.
#
# $Id: fts1porter.test,v 1.5 2006/10/03 19:37:37 drh Exp $
#

set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
ifcapable !fts1 {
 finish_test
 return
}

# Test data for the Porter stemmer.  The first word of each line
# is the input.  The second word is the desired output.
#
# This test data is taken from http://www.tartarus.org/martin/PorterStemmer/
# There is no claim of copyright made on that page, but you should
# probably contact the author (Martin Porter - the inventor of the
# Porter Stemmer algorithm) if you want to use this test data in a
# commerical product of some kind.  The stemmer code in FTS1 is a
# complete rewrite from scratch based on the algorithm specification
# and does not contain any code under copyright.
#
set porter_test_data {
  a                 a
  aaron             aaron
  abaissiez         abaissiez
  abandon           abandon
  abandoned         abandon
  abase             abas
  abash             abash
  abate             abat
  abated            abat
  abatement         abat
  abatements        abat
  abates            abat
  abbess            abbess
  abbey             abbei
  abbeys            abbei
  abbominable       abbomin
  abbot             abbot
  abbots            abbot
  abbreviated       abbrevi
```

abed	ab
abel	abel
aberga	aberga
abergavenny	abergavenni
abet	abet
abetting	abet
abhominable	abhomin
abhor	abhor
abhorr	abhorr
abhorred	abhor
abhorring	abhor
abhors	abhor
abhorson	abhorson
abide	abid
abides	abid
abilities	abil
ability	abil
abject	abject
abjectly	abjectli
abjects	abject
abjur	abjur
abjure	abjur
able	abl
abler	abler
aboard	aboard
abode	abod
aboded	abod
abodements	abod
aboding	abod
abominable	abomin
abominably	abomin
abominations	abomin
abortive	abort
abortives	abort
abound	abound
abounding	abound
about	about
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audrey	audrei
aufidius	aufidiu
aufidiuses	aufidius
auger	auger
aught	aught
augment	augment
augmentation	augment
augmented	augment
augmenting	augment
augurer	augur
augurers	augur
augures	augur
auguring	augur
augurs	augur
augury	auguri
august	august
augustus	augustu
auld	auld
aumerle	aumerl

aunchient	aunchient
aunt	aunt
aunts	aunt
auricular	auricular
aurora	aurora
auspicious	auspici
aussi	aussi
austere	auster
austerely	auster
austereness	auster
austerity	auster
austria	austria
aut	aut
authentic	authent
author	author
authorities	author
authority	author
authorized	author
authorizing	author
authors	author
autolycus	autolycu
autre	autr
autumn	autumn
auvergne	auvergn
avail	avail
avails	avail
avarice	avaric
avaricious	avarici
avaunt	avaunt
ave	av
aveng	aveng
avenge	aveng
avenged	aveng
averring	aver
avert	avert
aves	av
avez	avez
avis	avi
avoid	avoid
avoided	avoid
avoiding	avoid
avoids	avoid
avoirdupois	avoirdupoi
avouch	avouch
avouched	avouch
avouches	avouch
avouchment	avouch
avow	avow

aw	aw
await	await
awaits	await
awak	awak
awake	awak
awaked	awak
awaken	awaken
awakened	awaken
awakens	awaken
awakes	awak
awaking	awak
award	award
awards	award
awasy	awasi
away	awai
awe	aw
aweary	aweari
aweless	aweless
awful	aw
awhile	awhil
awkward	awkward
awl	awl
awooing	awoo
awork	awork
awry	awri
axe	ax
axle	axl
axletree	axletre
ay	ay
aye	ay
ayez	ayez
ayli	ayli
azur	azur
azure	azur
b	b
ba	ba
baa	baa
babbl	babbl
babble	babbl
babbling	babbl
babe	babe
babes	babe
babies	babi
baboon	baboon
baboons	baboon
baby	babi
babylon	babylon
bacare	bacar

bacchanals	bacchan
bacchus	bacchu
bach	bach
bachelor	bachelor
bachelors	bachelor
back	back
backbite	backbit
backbitten	backbitten
backing	back
backs	back
backward	backward
backwardly	backwardli
backwards	backward
bacon	bacon
bacons	bacon
bad	bad
bade	bade
badge	badg
badged	badg
badges	badg
badly	badli
badness	bad
baes	bae
baffl	baffl
baffle	baffl
baffled	baffl
bag	bag
baggage	baggag
bagot	bagot
bagpipe	bagpip
bags	bag
bail	bail
bailiff	bailiff
baillez	baillez
baily	baili
baisant	baisant
baisees	baise
baiser	baiser
bait	bait
baited	bait
baiting	bait
baitings	bait
baits	bait
bajazet	bajazet
bak	bak
bake	bake
baked	bake
baker	baker

bakers	baker
bakes	bake
baking	bake
bal	bal
balanc	balanc
balance	balanc
balcony	balconi
bald	bald
baldrick	baldrick
bale	bale
baleful	bale
balk	balk
ball	ball
ballad	ballad
ballads	ballad
ballast	ballast
ballasting	ballast
ballet	ballet
ballow	ballow
balls	ball
balm	balm
balms	balm
balmy	balmi
balsam	balsam
balsamum	balsamum
balth	balth
balthasar	balthasar
balthazar	balthazar
bames	bame
ban	ban
banbury	banburi
band	band
bandied	bandi
banding	band
bandit	bandit
banditti	banditti
banditto	banditto
bands	band
bandy	bandi
bandying	bandi
bane	bane
banes	bane
bang	bang
bangor	bangor
banish	banish
banished	banish
banishers	banish
banishment	banish

banister	banist
bank	bank
bankrout	bankrout
bankrupt	bankrupt
bankrupts	bankrupt
banks	bank
banner	banner
bannerets	banneret
banners	banner
banning	ban
banns	bann
banquet	banquet
banqueted	banquet
banqueting	banquet
banquets	banquet
banquo	banquo
bans	ban
baptism	baptism
baptista	baptista
baptiz	baptiz
bar	bar
barbarian	barbarian
barbarians	barbarian
barbarism	barbar
barbarous	barbar
barbary	barbari
barbason	barbason
barbed	barb
barber	barber
barbermonger	barbermong
bard	bard
bardolph	bardolph
bards	bard
bare	bare
bared	bare
barefac	barefac
barefaced	barefac
barefoot	barefoot
bareheaded	barehead
barely	bare
bareness	bare
barful	bar
bargain	bargain
bargains	bargain
barge	barg
bargulus	bargulu
baring	bare
bark	bark

barking	bark
barkloughly	barkloughli
barks	bark
barky	barki
barley	barlei
barm	barm
barn	barn
barnacles	barnacl
barnardine	barnardin
barne	barn
barnes	barn
barnet	barnet
barns	barn
baron	baron
barons	baron
barony	baroni
barr	barr
barrabas	barraba
barrel	barrel
barrels	barrel
barren	barren
barrenly	barrenli
barrenness	barren
barricado	barricado
barricadoes	barricado
barrow	barrow
bars	bar
barson	barson
barter	barter
bartholomew	bartholomew
bas	ba
basan	basan
base	base
baseless	baseless
basely	base
baseness	base
baser	baser
bases	base
basest	basest
bashful	bash
bashfulness	bash
basilisco	basilisco
basilisk	basilisk
basilisks	basilisk
basimecu	basimecu
basin	basin
basingstoke	basingstok
basins	basin

basis	basi
bask	bask
basket	basket
baskets	basket
bass	bass
bassanio	bassanio
basset	basset
bassianus	bassianu
basta	basta
bastard	bastard
bastardizing	bastard
bastardly	bastardli
bastards	bastard
bastardy	bastardi
basted	bast
bastes	bast
bastinado	bastinado
basting	bast
bat	bat
batailles	batail
batch	batch
bate	bate
bated	bate
bates	bate
bath	bath
bathe	bath
bathed	bath
bathing	bath
baths	bath
bating	bate
batler	batler
bats	bat
batt	batt
battalia	battalia
battalions	battalion
batten	batten
batter	batter
battering	batter
batters	batter
battery	batteri
battle	battl
battled	battl
battlefield	battlefield
battlements	battlement
battles	battl
batty	batti
bauble	baubl
baubles	baubl

baubling	baubl
baulk	baulk
bavin	bavin
bawcock	bawcock
bawd	bawd
bawdry	bawdri
bawds	bawd
bawdy	bawdi
bawl	bawl
bawling	bawl
bay	bai
baying	bai
baynard	baynard
bayonne	bayonn
bays	bai
be	be
beach	beach
beached	beach
beachy	beachi
beacon	beacon
bead	bead
beaded	bead
beadle	beadl
beadles	beadl
beads	bead
beadsmen	beadsmen
beagle	beagl
beagles	beagl
beak	beak
beaks	beak
beam	beam
beamed	beam
beams	beam
bean	bean
beans	bean
bear	bear
beard	beard
bearded	beard
beardless	beardless
beards	beard
bearer	bearer
bearers	bearer
bearest	bearest
beareth	beareth
bearing	bear
bears	bear
beast	beast
beastliest	beastliest

beastliness	beastli
beastly	beastli
beasts	beast
beat	beat
beated	beat
beaten	beaten
beating	beat
beatrice	beatric
beats	beat
beau	beau
beaufort	beaufort
beaumond	beaumond
beaumont	beaumont
beauteous	beauteou
beautied	beauti
beauties	beauti
beautified	beautifi
beautiful	beauti
beautify	beautifi
beauty	beauti
beaver	beaver
beavers	beaver
became	becam
because	becaus
bechanc	bechanc
bechance	bechanc
bechanced	bechanc
beck	beck
beckon	beckon
beckons	beckon
becks	beck
becom	becom
become	becom
becomed	becom
becomes	becom
becoming	becom
becomings	becom
bed	bed
bedabbled	bedabbl
bedash	bedash
bedaub	bedaub
bedazzled	bedazzl
bedchamber	bedchamb
bedclothes	bedcloth
bedded	bed
bedeck	bedeck
bedecking	bedeck
bedew	bedew

bedfellow	bedfellow
bedfellows	bedfellow
bedford	bedford
bedlam	bedlam
bedrench	bedrench
bedrid	bedrid
beds	bed
bedtime	bedtim
bedward	bedward
bee	bee
beef	beef
beefs	beef
beehives	beehiv
been	been
beer	beer
bees	bee
beest	beest
beetle	beetl
beetles	beetl
beeves	beev
befall	befal
befallen	befallen
befalls	befal
befell	befel
befits	befit
befitted	befit
befitting	befit
befor	befor
before	befor
beforehand	beforehand
befortune	befortun
befriend	befriend
befriended	befriend
befriends	befriend
beg	beg
began	began
beget	beget
begets	beget
begetting	beget
begg	begg
beggar	beggar
beggared	beggar
beggarly	beggarli
beggarman	beggarman
beggars	beggar
beggary	beggari
begging	beg
begin	begin

beginners	beginn
beginning	begin
beginnings	begin
begins	begin
begnawn	begnawn
begone	begon
begot	begot
begotten	begotten
begrimed	begrim
begs	beg
beguil	beguil
beguile	beguil
beguiled	beguil
beguiles	beguil
beguiling	beguil
begun	begun
behalf	behalf
behalfs	behalf
behav	behav
behaved	behav
behavedst	behavedst
behavior	behavior
behaviors	behavior
behaviour	behaviour
behaviours	behaviour
behead	behead
beheaded	behead
beheld	beheld
behest	behest
behests	behest
behind	behind
behold	behold
beholder	behold
beholders	behold
beholdest	beholdest
beholding	behold
beholds	behold
behoof	behoof
behooffull	behoofful
behooves	behoov
behove	behov
behoves	behov
behowls	behowl
being	be
bel	bel
belarius	belariu
belch	belch
belching	belch

beldam	beldam
beldame	beldam
beldams	beldam
belee	bele
belgia	belgia
belie	beli
belied	beli
belief	belief
beliest	beliest
believ	believ
believe	believ
believed	believ
believes	believ
believest	believest
believing	believ
belike	belik
bell	bell
bellario	bellario
belle	bell
bellied	belli
bellies	belli
bellman	bellman
bellona	bellona
bellow	bellow
bellowed	bellow
bellowing	bellow
bellows	bellow
bells	bell
belly	belli
bellyful	belly
belman	belman
belmont	belmont
belock	belock
belong	belong
belonging	belong
belongings	belong
belongs	belong
belov	belov
beloved	belov
beloving	belov
below	below
belt	belt
belzebub	belzebub
bemadding	bemad
bemet	bemet
bemete	bemet
bemoan	bemoan
bemoaned	bemoan

bemock	bemock
bemoil	bemoil
bemonster	bemonst
ben	ben
bench	bench
bencher	bencher
benches	bench
bend	bend
bended	bend
bending	bend
bends	bend
bene	bene
beneath	beneath
benedicite	benedicit
benedick	benedick
benediction	benedict
benedictus	benedictu
benefactors	benefactor
benefice	benefic
beneficial	benefici
benefit	benefit
benefited	benefit
benefits	benefit
benetted	benet
benevolence	benevol
benevolences	benevol
benied	beni
benison	benison
bennet	bennet
bent	bent
bentii	bentii
bentivolii	bentivolii
bents	bent
benumbed	benumb
benvolio	benvolio
bepaint	bepaint
bepray	beprai
bequeath	bequeath
bequeathed	bequeath
bequeathing	bequeath
bequest	bequest
ber	ber
berard	berard
berattle	berattl
beray	berai
bere	bere
bereave	bereav
bereaved	bereav

bereaves	bereav
bereft	bereft
bergamo	bergamo
bergomask	bergomask
berhym	berhym
berhyme	berhym
berkeley	berkelei
bermoothes	bermooth
bernardo	bernardo
berod	berod
berowne	berown
berri	berri
berries	berri
berrord	berrord
berry	berri
bertram	bertram
berwick	berwick
bescreen	bescreen
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beseeched	beseech
beseechers	beseech
beseeching	beseech
beseek	beseek
beseem	beseem
beseemeth	beseemeth
beseeming	beseem
beseems	beseem
beset	beset
beshrew	beshrew
beside	besid
besides	besid
besieg	besieg
besiege	besieg
besieged	besieg
beslubber	beslubb
besmear	besmear
besmeared	besmear
besmirch	besmirch
besom	besom
besort	besort
besotted	besot
bespake	bespak
bespeak	bespeak
bespice	bespic
bespoke	bespok
bespotted	bespot
bess	bess
bessy	bessi

best	best
bestained	bestain
bested	best
bestial	bestial
bestir	bestir
bestirr	bestirr
bestow	bestow
bestowed	bestow
bestowing	bestow
bestows	bestow
bestraught	bestraught
bestrew	bestrew
bestrid	bestrid
bestride	bestrid
bestrides	bestrid
bet	bet
betake	betak
beteem	beteem
bethink	bethink
bethought	bethought
bethrothed	bethroth
bethump	bethump
betid	betid
betide	betid
betideth	betideth
betime	betim
betimes	betim
betoken	betoken
betook	betook
betossed	betoss
betray	betrai
betrayed	betrai
betraying	betrai
betrays	betrai
betrims	betrim
betroth	betroth
betrothed	betroth
betroths	betroth
bett	bett
betted	bet
better	better
bettered	better
bettering	better
betters	better
betting	bet
bettre	bettr
between	between
betwixt	betwixt

bevel	bevel
beverage	beverag
bevis	bevi
bevy	bevi
bewail	bewail
bewailed	bewail
bewailing	bewail
bewails	bewail
beware	bewar
bewasted	bewast
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bewept	bewept
bewet	bewet
bewhored	bewhor
bewitch	bewitch
bewitched	bewitch
bewitchment	bewitch
bewray	bewrai
beyond	beyond
bezonian	bezonian
bezonians	bezonian
bianca	bianca
bianco	bianco
bias	bia
bibble	bibbl
bickerings	bicker
bid	bid
bidden	bidden
bidding	bid
biddings	bid
biddy	biddi
bide	bide
bides	bide
biding	bide
bids	bid
bien	bien
bier	bier
bifold	bifold
big	big
bigamy	bigami
biggen	biggen
bigger	bigger
bigness	big
bigot	bigot
bilberry	bilberri
bilbo	bilbo
bilboes	bilbo
bilbow	bilbow

bill	bill
billeted	billet
billets	billet
billiards	billiard
billing	bill
billow	billow
billows	billow
bills	bill
bin	bin
bind	bind
bindeth	bindeth
binding	bind
binds	bind
biondello	biondello
birch	birch
bird	bird
birding	bird
birdlime	birdlim
birds	bird
birnam	birnam
birth	birth
birthday	birthdai
birthdom	birthdom
birthplace	birthplac
birthright	birthright
birthrights	birthright
births	birth
bis	bi
biscuit	biscuit
bishop	bishop
bishops	bishop
bisson	bisson
bit	bit
bitch	bitch
bite	bite
biter	biter
bites	bite
biting	bite
bits	bit
bitt	bitt
bitten	bitten
bitter	bitter
bitterest	bitterest
bitterly	bitterli
bitterness	bitter
blab	blab
blabb	blabb
blabbing	blab

blabs	blab
black	black
blackamoor	blackamoor
blackamoors	blackamoor
blackberries	blackberri
blackberry	blackberri
blacker	blacker
blackest	blackest
blackfriars	blackfriar
blackheath	blackheath
blackmere	blackmer
blackness	black
blacks	black
bladder	bladder
bladders	bladder
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blame	blame
blamed	blame
blameful	blame
blameless	blameless
blames	blame
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blanca	blanca
blanch	blanch
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blanket	blanket
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blaspheme	blasphem
blaspheming	blasphem
blasphemous	blasphem
blasphemy	blasphemi
blast	blast
blasted	blast
blasting	blast
blastments	blastment
blasts	blast
blaz	blaz
blaze	blaze
blazes	blaze
blazing	blaze
blazon	blazon
blazoned	blazon
blazoning	blazon
bleach	bleach

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bleated	bleat
bleats	bleat
bled	bled
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bleedeth	bleedeth
bleeding	bleed
bleeds	bleed
blemish	blemish
blemishes	blemish
blench	blench
blenches	blench
blend	blend
blended	blend
blent	blent
bless	bless
blessed	bless
blessedly	blessedli
blessedness	blessed
blesses	bless
blesseth	blesseth
blessing	bless
blessings	bless
blest	blest
blew	blew
blind	blind
blinded	blind
blindfold	blindfold
blinding	blind
blindly	blindli
blindness	blind
blinds	blind
blink	blink
blinking	blink
bliss	bliss
blist	blist
blister	blister
blisters	blister
blithe	blith
blithild	blithild
bloat	bloat
block	block
blockish	blockish

blocks block
blois bloi
blood blood
blooded blood
bloodhound bloodhound
bloodied bloodi
bloodier bloodier
bloodiest bloodiest
bloodily bloodili
bloodless bloodless
bloods blood
bloodshed bloodsh
bloodshedding bloodshed
bloodstained bloodstain
bloody bloodi
bloom bloom
blooms bloom
blossom blossom
blossoming blossom
blossoms blossom
blot blot
blots blot
blotted blot
blotting blot
blount blount
blow blow
blowed blow
blowers blower
blowest blowest
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blown blown
blows blow
blowse blows
blubb blubb
blubber blubber
blubbering blubber
blue blue
bluecaps bluecap
bluest bluest
blunt blunt
blunted blunt
blunter blunter
bluntest bluntest
blunting blunt
bluntly bluntli
bluntness blunt
blunts blunt
blur blur

blurr	blurr
blurs	blur
blush	blush
blushes	blush
blushest	blushest
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blust	blust
bluster	bluster
blusterer	bluster
blusters	bluster
bo	bo
boar	boar
board	board
boarded	board
boarding	board
boards	board
boarish	boarish
boars	boar
boast	boast
boasted	boast
boastful	boast
boasting	boast
boasts	boast
boat	boat
boats	boat
boatswain	boatswain
bob	bob
bobb	bobb
boblibindo	boblibindo
bobtail	bobtail
bocchus	bocchu
bode	bode
boded	bode
bodements	bodement
bodes	bode
bodg	bodg
bodied	bodi
bodies	bodi
bodiless	bodiless
bodily	bodili
boding	bode
bodkin	bodkin
body	bodi
bodykins	bodykin
bog	bog
boggle	boggl
boggler	boggler
bogs	bog

bohemia	bohemia
bohemian	bohemian
bohun	bohun
boil	boil
boiling	boil
boils	boil
boist	boist
boisterous	boister
boisterously	boister
boitier	boitier
bold	bold
bolden	bolden
bolder	bolder
boldest	boldest
boldly	boldli
boldness	bold
bolds	bold
bolingbroke	bolingbrok
bolster	bolster
bolt	bolt
bolted	bolt
bolter	bolter
bolters	bolter
bolting	bolt
bolts	bolt
bombard	bombard
bombards	bombard
bombast	bombast
bon	bon
bona	bona
bond	bond
bondage	bondag
bonded	bond
bondmaid	bondmaid
bondman	bondman
bondmen	bondmen
bonds	bond
bondslave	bondslav
bone	bone
boneless	boneless
bones	bone
bonfire	bonfir
bonfires	bonfir
bonjour	bonjour
bonne	bonn
bonnet	bonnet
bonneted	bonnet
bonny	bonni

bonos	bono
bonto	bonto
bonville	bonvil
bood	bood
book	book
bookish	bookish
books	book
boon	boon
boor	boor
boorish	boorish
boors	boor
boot	boot
booted	boot
booties	booti
bootless	bootless
boots	boot
booty	booti
bor	bor
bora	bora
borachio	borachio
bordeaux	bordeaux
border	border
bordered	border
borderers	border
borders	border
bore	bore
boreas	borea
bores	bore
boring	bore
born	born
borne	born
borough	borough
boroughs	borough
borrow	borrow
borrowed	borrow
borrower	borrow
borrowing	borrow
borrows	borrow
bosko	bosko
boskos	bosko
bosky	boski
bosom	bosom
bosoms	bosom
boson	boson
boss	boss
bosworth	bosworth
botch	botch
botcher	botcher

botches	botch
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bountiful	bounti
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bourbier	bourbier
bourbon	bourbon
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buzzard	buzzard
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by	by
bye	bye
byzantium	byzantium
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cabbage	cabbag
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cabin	cabin
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calf	calf
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call	call
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calumnious	calumni
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cancer	cancer
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cataplasm	cataplasm
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catechising	catechis
catechism	catech
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caterpillars	caterpillar

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cavalery	cavaleri
cavaliers	cavali
cave	cave
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chant	chant
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chantries	chantri
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chaos	chao
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chape	chape
chapel	chapel
chapeless	chapeless
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chaplain	chaplain
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chaps	chap
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chariest	chariest
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charlemain	charlemain
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children	children
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chilling	chill
chime	chime
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chimneys	chimnei
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chips	chip
chiron	chiron
chirping	chirp
chirrah	chirrah
chirurgeonly	chirurgeonli
chisel	chisel
chitopher	chitoph
chivalrous	chivalr
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choice	choic
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cox	cox
coxcomb	coxcomb
coxcombs	coxcomb
coy	coi
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folk	folk
folks	folk
follies	folli
follow	follow
followed	follow
follower	follow
followers	follow
followest	followest
following	follow
follows	follow
folly	folli
fond	fond
fonder	fonder
fondly	fondli
fondness	fond
font	font
fontibell	fontibel
food	food
fool	fool
fooleries	fooleri
foolery	fooleri
foolhardy	foolhardi
fooling	fool
foolish	foolish
foolishly	foolishli
foolishness	foolish
fools	fool
foot	foot
football	footbal
footboy	footboi
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footfall	footfal
footing	foot
footman	footman
footmen	footmen
footpath	footpath
footsteps	footstep
footstool	footstool
fopp	fopp
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foppery	fopperi
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forage	forag
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forbear	forbear
forbearance	forbear
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forbid	forbid
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ford	ford
fordid	fordid
fordo	fordo
fordoes	fordo
fordone	fordon
fore	fore
forecast	forecast
forefather	forefath
forefathers	forefath
forefinger	forefing
forego	forego
foregone	foregon
forehand	forehand
forehead	forehead

foreheads	forehead
forehorse	forehors
foreign	foreign
foreigner	foreign
foreigners	foreign
foreknowing	foreknow
foreknowledge	foreknowledg
foremost	foremost
forenamed	forenam
forenoon	forenoon
forerun	forerun
forerunner	forerunn
forerunning	forerun
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foresaid	foresaid
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foresay	foresai
foresee	forese
foreseeing	forese
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foreskirt	foreskirt
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forest	forest
forestall	forestal
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forester	forest
foresters	forest
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foretell	foretel
foretelling	foretel
foretells	foretel
forethink	forethink
forethought	forethought
foretold	foretold
forever	forev
foreward	foreward
forewarn	forewarn
forewarned	forewarn
forewarning	forewarn
forfeit	forfeit
forfeited	forfeit
forfeiters	forfeit
forfeiting	forfeit
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forfeiture	forfeitur
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forswearing	forswear
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fort	fort
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forthcoming	forthcom
forthlight	forthlight
forthright	forthright
forthwith	forthwith
fortification	fortif
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fortward	fortward
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forum	forum
forward	forward
forwarding	forward
forwardness	forward
forwards	forward
forwearied	forweari
fosset	fosset
fost	fost
foster	foster
fostered	foster
fought	fought
foughten	foughten
foul	foul
fouler	fouler
foulest	foulest
foully	foulli
foulness	foul
found	found

foundation foundat
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founded found
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fount fount
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fountains fountain
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fowl fowl
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freehearted freeheart
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frenchman frenchman
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fresher	fresher
freshes	fresh
freshest	freshest
freshly	freshli
freshness	fresh
fret	fret
fretful	fret
frets	fret
fretted	fret
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friar	friar
friars	friar
friday	fridai
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friend	friend
friended	friend
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friendless	friendless
friendliness	friendli
friendly	friendli
friends	friend
friendship	friendship
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fright	fright
frighted	fright
frightened	frighten
frightful	fright
frighting	fright
frights	fright
fringe	fring
fringed	fring
frippery	fripperi
frisk	frisk
fritters	fritter
frivolous	frivol
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frock	frock
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frogmore	frogmor
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frolic	frolic
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front	front
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fronting	front
frontlet	frontlet
fronts	front
frost	frost
frosts	frost
frosty	frosti
froth	froth
froward	froward
frown	frown
frowning	frown
frowningly	frowningli
frowns	frown
froze	froze
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fructify	fructifi
frugal	frugal
fruit	fruit
fruiterer	fruiter
fruitful	fruit
fruitfully	fruitfulli
fruitfulness	fruit
fruition	fruition
fruitless	fruitless
fruits	fruit
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frustrate	frustrat
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fubb	fubb
fuel	fuel
fugitive	fugit
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fulfill	fulfil
fulfilling	fulfil
fulfils	fulfil
full	full
fullam	fullam
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fullness	full
fully	fulli
fulness	ful
fulsome	fulsom
fulvia	fulvia
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fumble	fumbl

fumbles	fumbl
fumblest	fumblest
fumbling	fumbl
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fumes	fume
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fun	fun
function	function
functions	function
fundamental	fundament
funeral	funer
funerals	funer
fur	fur
furbish	furbish
furies	furi
furious	furiou
furlongs	furlong
furnace	furnac
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furnival	furniv
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further	further
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furtherer	further
furthermore	furthermor
furthest	furthest
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gaging	gage
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galley	gallei
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galling	gall
gallons	gallon
gallop	gallop
galloping	gallop
gallops	gallop

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galloway	gallowai
gallowglasses	gallowglass
gallows	gallow
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galls	gall
gallus	gallu
gam	gam
gambol	gambol
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gamboys	gamboi
game	game
gamers	gamer
games	game
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gamester	gamest
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gangren	gangren
ganymede	ganymed
gaol	gaol
gaoler	gaoler
gaolers	gaoler
gaols	gaol
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gaping	gape
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garb	garb
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garcon	garcon
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gardeners	garden
gardens	garden
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gardiner	gardin
gardon	gardon
gargantua	gargantua
gargrave	gargrav
garish	garish

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garlic	garlic
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garners	garner
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garters	garter
gascony	gasconi
gash	gash
gashes	gash
gaskins	gaskin
gasp	gasp
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gasted	gast
gastness	gast
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gaul	gaul
gaultree	gaultre
gaunt	gaunt
gauntlet	gauntlet
gauntlets	gauntlet
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gavest	gavest
gawded	gawd
gawds	gawd
gawsey	gawsei
gay	gai
gayness	gay
gaz	gaz
gaze	gaze
gazed	gaze
gazer	gazer
gazers	gazer
gazes	gaze
gazeth	gazeth
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gear	gear
geck	geck
geese	gees
geffrey	geffrei
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gelida	gelida
gelidus	gelidu
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gem	gem
geminy	gemini
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general	gener
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generals	gener
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generations	gener
generative	gener
generosity	generos
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genitive	genit
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genius	geniu
gennets	gennet
genoa	genoa
genoux	genoux
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gent	gent
gentilhomme	gentilhomm
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gentlefolks gentlefolk
gentleman gentleman
gentlemanlike gentlemanlik
gentlemen gentlemen
gentleness gentl
gentler gentler
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gentlewoman gentlewoman
gentlewomen gentlewomen
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george georg
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ghost ghost
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giant giant
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gibbet gibbet
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gibing	gibe
gibingly	gibingli
giddily	giddili
giddiness	giddi
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gift	gift
gifts	gift
gig	gig
giglets	giglet
giglot	giglot
gilbert	gilbert
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gilded	gild
gilding	gild
gilliams	gilliam
gillian	gillian
gills	gill
gillyvors	gillyvor
gilt	gilt
gimmal	gimmal
gimmers	gimmer
gin	gin
ging	ging
ginger	ginger
gingerbread	gingerbread
gingerly	gingerli
ginn	ginn
gins	gin
gioucestershire	gioucestershir
gipes	gipe
gipsies	gipsi
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gird	gird
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girl	girl
girls	girl
girt	girt
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give	give
given	given
giver	giver
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gives	give
givest	givest
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giving	give
givings	give
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gladly	gladli
gladness	glad
glamis	glami
glanc	glanc
glance	glanc
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glances	glanc
glancing	glanc
glanders	glander
glansdale	glansdal
glare	glare
glares	glare
glass	glass
glasses	glass
glassy	glassi
glaz	glaz
glazed	glaze
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gleeful	gleeful
gleek	gleek
gleeking	gleek
gleeks	gleek
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glendower	glendow
glib	glib
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glimmers	glimmer
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glimpses	glimps
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glistening	glisten

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glistering	glister
glisters	glister
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glittering	glitter
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gloomy	gloomi
glories	glori
glorified	glorifi
glorify	glorifi
glorious	gloriou
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glory	glori
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glouceste	gloucest
gloucester	gloucest
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glove	glove
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glowworm	glowworm
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gloze	gloze
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gnarled	gnarl
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gnat	gnat
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gnaw	gnaw
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gnawn	gnawn
gnaws	gnaw
go	go
goad	goad
goaded	goad
goads	goad
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goat	goat
goatish	goatish
goats	goat
gobbets	gobbet
gobbo	gobbo
goblet	goblet
goblets	goblet
goblin	goblin
goblins	goblin
god	god
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godden	godden
goddess	goddess
goddesses	goddess
goddild	goddild
godfather	godfath
godfathers	godfath
godhead	godhead
godlike	godlik
godliness	godli
godly	godli
godmother	godmoth
gods	god
godson	godson
goer	goer
goers	goer
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goffe	goff
gogs	gog
going	go
gold	gold
golden	golden
goldenly	goldenli
goldsmith	goldsmith
goldsmiths	goldsmith
golgotha	golgotha
goliases	golias
goliath	goliath
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gondola gondola
gondolier gondoli
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goneril goneril
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goodfellow goodfellow
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gospel gospel
gospels gospel
goss goss
gossamer gossam
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gossiping	gossip
gossiplike	gossiplik
gossips	gossip
got	got
goth	goth
goths	goth
gotten	gotten
gourd	gourd
gout	gout
gouts	gout
gouty	gouti
govern	govern
governance	govern
governed	govern
governess	gover
government	govern
governor	governor
governors	governor
governs	govern
gower	gower
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graceless	graceless
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gradation	gradat
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graft	graft
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grafters	grafter
grain	grain
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gramercies	gramerci
gramercy	gramerci
grammar	grammar
grand	grand
grandam	grandam
grandame	grandam
grandchild	grandchild

grande	grand
grandeur	grandeur
grandfather	grandfath
grandjurors	grandjuror
grandmother	grandmoth
grandpre	grandpr
grandsir	grandsir
grandsire	grandsir
grandsires	grandsir
grange	grang
grant	grant
granted	grant
granting	grant
grants	grant
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grapes	grape
grapple	grappl
grapples	grappl
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grasp	grasp
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grasps	grasp
grass	grass
grasshoppers	grasshopp
grassy	grassi
grate	grate
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grateful	grate
grates	grate
gratiano	gratiano
gratify	gratifi
gratii	gratii
gratillity	gratil
grating	grate
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gratitude	gratitud
gratulate	gratul
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grave	grave
gravediggers	gravedigg
gravel	gravel
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graven	graven
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graver	graver
graves	grave

gravest	gravest
gravestone	graveston
gravities	graviti
gravity	graviti
gravy	gravi
gray	grai
graymalkin	graymalkin
graz	graz
graze	graze
grazed	graze
grazing	graze
grease	greas
greases	greas
greasily	greasili
greasy	greasi
great	great
greater	greater
greatest	greatest
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grecian	grecian
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greeks	greek
green	green
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greenly	greenli
greens	green
greensleeves	greensleev
greenwich	greenwich
greenwood	greenwood
greet	greet
greeted	greet
greeting	greet
greetings	greet
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greg	greg
gregory	gregori
gremio	gremio
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greybeard	greybeard
greybeards	greybeard
greyhound	greyhound
greyhounds	greyhound
grief	grief
griefs	grief
griev	griev
grievance	grievanc
grievances	grievanc
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grieved	griev
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grievingly	grievingli
grievous	grievou
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griffin	griffin
griffith	griffith
grim	grim
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grimly	grimli
grin	grin
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grinding	grind
grindstone	grindston
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grip	grip
gripe	gripe
gripes	gripe
griping	gripe
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grisly	grisli
grissel	grissel
grize	grize
grizzle	grizzl
grizzled	grizzl
groan	groan
groaning	groan
groans	groan
groat	groat
groats	groat
groin	groin
groom	groom
grooms	groom
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grub	grub
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grudge	grudg
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grumble	grumbl
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gualtier	gualtier
guard	guard
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hairless	hairless
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hairy	hairi
hal	hal
halberd	halberd

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halfcan	halfcan
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hall	hall
halloa	halloa
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hames	hame
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hamper	hamper
hampton	hampton
hams	ham
hamstring	hamstr
hand	hand
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handful	hand
handicraft	handicraft
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hardly	hardli
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harelip	harelip
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hark	hark
harlot	harlot
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henceforth	henceforth
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henchman	henchman
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hereditary	hereditari
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hisperia	hisperia
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holds	hold
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holidame	holidam
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holidays	holidai
holier	holier
holiest	holiest
holily	holili
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holla	holla
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hollander	holland
hollanders	holland
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hollow	hollow
hollowly	hollowli
hollowness	hollow
holly	holli
holmedon	holmedon
holofernes	holofern
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homage	homag
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homely	home
homes	home
homespuns	homespun
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homicides	homicid
homily	homili
hominem	hominem
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honestly	honestli
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honey	honei
honeycomb	honeycomb
honeying	honei
honeyless	honeyless

honeysuckle	honeysuckl
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honneur	honneur
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honorably	honor
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honourably	honour
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hooking	hook
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horizon	horizon
horn	horn

hornbook	hornbook
horned	horn
horner	horner
horning	horn
hornpipes	hornpip
horns	horn
horologe	horolog
horrible	horribl
horribly	horribl
horrid	horrid
horrider	horrid
horridly	horridli
horror	horror
horrors	horror
hors	hor
horse	hors
horseback	horseback
horsed	hors
horsehairs	horsehair
horseman	horseman
horsemanship	horsemanship
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horses	hors
horseway	horsewai
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hortensio	hortensio
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humourists	humourist
humours	humour
humphrey	humphrei
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hundred	hundr
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hunger	hunger
hungerford	hungerford
hungerly	hungerli
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hunt	hunt
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hunters	hunter
hunteth	hunteth
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huntress	huntress
hunts	hunt
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huntsmen	huntsmen
hurdle	hurdl
hurl	hurl
hurling	hurl
hurls	hurl
hurly	hurli
hurlyburly	hurlyburli
hurricano	hurricano
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huswifes	huswif
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hymenaeus	hymenaeu
hymn	hymn
hymns	hymn
hyperboles	hyperbol
hyperbolical	hyperbol
hyperion	hyperion

hypocrisy	hypocrisi
hypocrite	hypocrit
hypocrites	hypocrit
hyrcan	hyrcan
hyrcania	hyrcania
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hyssop	hyssop
hysterica	hysterica
i	i
iachimo	iachimo
iaculis	iaculi
iago	iago
iament	iament
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icarus	icaru
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idea	idea
ideas	idea
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idolatrous	idolatr
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if	if
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ignis	igni
ignoble	ignobl
ignobly	ignobl
ignominious	ignomini
ignominy	ignomini
ignomy	ignomi
ignorance	ignor
ignorant	ignor
ii	ii
iii	iii

iiii	iiii
il	il
ilbow	ilbow
ild	ild
ilion	ilion
ilium	ilium
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illegitimate	illegitim
illiterate	illiter
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illo	illo
ills	ill
illume	illum
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illuminate	illumin
illumineth	illumineth
illusion	illus
illusions	illus
illustrate	illustr
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illustrious	illustri
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impregnable impregn
imprese impres
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imprimis imprimi
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lecher	lecher
lecherous	lecher
lechers	lecher
lechery	lecheri
lecon	lecon
lecture	lectur
lectures	lectur
led	led
leda	leda
leech	leech
leeches	leech
leek	leek
leeks	leek
leer	leer
leers	leer
lees	lee
leese	lees
leet	leet
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left	left
leg	leg
legacies	legaci
legacy	legaci
legate	legat
legatine	legatin
lege	lege

legerity	leger
leges	lege
legg	legg
legion	legion
legions	legion
legitimate	legitim
legitimation	legitim
legs	leg
leicester	leicest
leicestershire	leicestershir
leiger	leiger
leigers	leiger
leisure	leisur
leisurely	leisur
leisures	leisur
leman	leman
lemon	lemon
lena	lena
lend	lend
lender	lender
lending	lend
lendings	lend
lends	lend
length	length
lengthen	lengthen
lengthens	lengthen
lengths	length
lenity	leniti
lennox	lennox
lent	lent
lenten	lenten
lentus	lentu
leo	leo
leon	leon
leonardo	leonardo
leonati	leonati
leonato	leonato
leonatus	leonatu
leontes	leont
leopard	leopard
leopards	leopard
leper	leper
leperous	leper
lepidus	lepidu
leprosy	leprosi
lequel	lequel
lers	ler
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less	less
lessen	lessen
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lesser	lesser
lesson	lesson
lessoned	lesson
lessons	lesson
lest	lest
lestrake	lestrak
let	let
lethargied	lethargi
lethargies	lethargi
lethargy	lethargi
lethe	leth
lets	let
lett	lett
letter	letter
letters	letter
letting	let
lettuce	lettuc
leur	leur
leve	leve
level	level
levell	level
levelled	level
levels	level
leven	leven
levers	lever
leviathan	leviathan
leviathans	leviathan
levied	levi
levies	levi
levity	leviti
levy	levi
levying	levi
lewd	lewd
lewdly	lewdli
lewdness	lewd
lewdsters	lewdster
lewis	lewi
liable	liabl
liar	liar
liars	liar
libbard	libbard
libelling	libel
libels	libel
liberal	liber
liberality	liber

liberte	libert
liberties	liberti
libertine	libertin
libertines	libertin
liberty	liberti
library	librari
libya	libya
licence	licenc
licens	licen
license	licens
licentious	licenti
lichas	licha
licio	licio
lick	lick
licked	lick
licker	licker
lictors	lictor
lid	lid
lids	lid
lie	lie
lied	li
lief	lief
liefest	liefest
liege	lieg
liegeman	liegeman
liegemen	liegemen
lien	lien
lies	li
liest	liest
lieth	lieth
lieu	lieu
lieutenant	lieuten
lieutenantry	lieutenantri
lieutenants	lieuten
lieve	liev
life	life
lifeblood	lifeblood
lifeless	lifeless
lifelings	lifel
lift	lift
lifted	lift
lifter	lifter
lifteth	lifteth
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lig	lig
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liggens	liggen

light	light
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lightly	lightli
lightness	light
lightning	lightn
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lik	lik
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liked	like
likeliest	likeliest
likelihood	likelihood
likelihoods	likelihood
likely	like
likeness	like
liker	liker
likes	like
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likewise	likewis
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likings	like
lilies	lili
lily	lili
lim	lim
limander	limand
limb	limb
limbeck	limbeck
limbecks	limbeck
limber	limber
limbo	limbo
limbs	limb
lime	lime
limed	lime
limehouse	limehous
limekilns	limekiln
limit	limit
limitation	limit
limited	limit
limits	limit
limn	limn
limp	limp
limping	limp
limps	limp
lin	lin

lincoln	lincoln
lincolnshire	lincolnshir
line	line
lineal	lineal
lineally	lineal
lineament	lineament
lineaments	lineament
lined	line
linen	linen
linens	linen
lines	line
ling	ling
lingare	lingar
linger	linger
lingered	linger
lingers	linger
linguist	linguist
lining	line
link	link
links	link
linsey	linsei
linstock	linstock
linta	linta
lion	lion
lionel	lionel
lioness	lioness
lions	lion
lip	lip
lipp	lipp
lips	lip
lipsbury	lipsburi
liquid	liquid
liquor	liquor
liquorish	liquorish
liquors	liquor
lirra	lirra
lisbon	lisbon
lisp	lisp
lisping	lisp
list	list
listen	listen
listening	listen
lists	list
literatured	literatur
lither	lither
litter	litter
little	littl
littlest	littlest

liv	liv
live	live
lived	live
livelier	liveli
livelihood	livelihood
livelong	livelong
lively	live
liver	liver
liveries	liveri
livers	liver
livery	liveri
lives	live
livest	livest
liveth	liveth
livia	livia
living	live
livings	live
lizard	lizard
lizards	lizard
ll	ll
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llous	llou
lnd	lnd
lo	lo
loa	loa
loach	loach
load	load
loaden	loaden
loading	load
loads	load
loaf	loaf
loam	loam
loan	loan
loath	loath
loathe	loath
loathed	loath
loather	loather
loathes	loath
loathing	loath
loathly	loathli
loathness	loath
loathsome	loathsom
loathsomeness	loathsom
loathsomest	loathsomest
loaves	loav
lob	lob
lobbies	lobbi
lobby	lobbi

local	local
lochaber	lochab
lock	lock
locked	lock
locking	lock
lockram	lockram
locks	lock
locusts	locust
lode	lode
lodg	lodg
lodge	lodg
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lodovico	lodovico
lodowick	lodowick
lofty	lofti
log	log
logger	logger
loggerhead	loggerhead
loggerheads	loggerhead
loggets	logget
logic	logic
logs	log
loins	loin
loiter	loiter
loiterer	loiter
loiterers	loiter
loitering	loiter
lolling	loll
lolls	loll
lombardy	lombardi
london	london
londoners	london
lone	lone
loneliness	loneli
lonely	lone
long	long
longaville	longavil
longboat	longboat
longed	long
longer	longer
longest	longest
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longly	longli
longs	long
longtail	longtail
loo	loo
loof	loof
look	look
looked	look
looker	looker
lookers	looker
lookest	lookest
looking	look
looks	look
loon	loon
loop	loop
loos	loo
loose	loos
loosed	loos
loosely	loos
loosen	loosen
loosing	loos
lop	lop
lopp	lopp
loquitur	loquitur
lord	lord
lorded	lord
lording	lord
lordings	lord
lordliness	lordli
lordly	lordli
lords	lord
lordship	lordship
lordships	lordship
lorenzo	lorenzo
lorn	lorn
lorraine	lorrain
lorship	lorship
los	lo
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losers	loser
loses	lose
losest	losest
loseth	loseth
losing	lose
loss	loss
losses	loss
lost	lost
lot	lot

lots	lot
lott	lott
lottery	lotteri
loud	loud
louder	louder
loudly	loudli
lour	lour
loureth	loureth
louring	lour
louse	lous
louses	lous
lousy	lousi
lout	lout
louted	lout
louts	lout
louvre	louvr
lov	lov
love	love
loved	love
lovedst	lovedst
lovel	lovel
lovelier	loveli
loveliness	loveli
lovell	lovel
lovely	love
lover	lover
lovered	lover
lovers	lover
loves	love
lovest	lovest
loveth	loveth
loving	love
lovingly	lovingli
low	low
lowe	low
lower	lower
lowest	lowest
lowing	low
lowliness	lowli
lowly	lowli
lown	lown
lowness	low
loyal	loyal
loyally	loyal
loyalties	loyalti
loyalty	loyalti
lozel	lozel
lt	lt

lubber	lubber
lubberly	lubberli
luc	luc
luccicos	luccico
luce	luce
lucentio	lucentio
luces	luce
lucetta	lucetta
luciana	luciana
lucianus	lucianu
lucifer	lucif
lucifier	lucifi
lucilius	luciliu
lucina	lucina
lucio	lucio
lucius	luciu
luck	luck
luckier	luckier
luckiest	luckiest
luckily	luckili
luckless	luckless
lucky	lucki
lucre	lucr
lucrece	lucrec
lucretia	lucretia
lucullius	luculliu
lucullus	lucullu
lucy	luci
lud	lud
ludlow	ludlow
lug	lug
lugg	lugg
luggage	luggag
luke	luke
lukewarm	lukewarm
lull	lull
lulla	lulla
lullaby	lullabi
lulls	lull
lumbert	lumbert
lump	lump
lumpish	lumpish
luna	luna
lunacies	lunaci
lunacy	lunaci
lunatic	lunat
lunatics	lunat
lunes	lune

lungs	lung
lupercal	luperc
lurch	lurch
lure	lure
lurk	lurk
lurketh	lurketh
lurking	lurk
lurks	lurk
luscious	lusciou
lush	lush
lust	lust
lusted	lust
luster	luster
lustful	lust
lustier	lustier
lustiest	lustiest
lustig	lustig
lustihood	lustihood
lustily	lustili
lustre	lustr
lustrous	lustrou
lusts	lust
lusty	lusti
lute	lute
lutes	lute
lutestring	lutestr
lutheran	lutheran
luxurious	luxuri
luxuriously	luxuri
luxury	luxuri
ly	ly
lycaonia	lycaonia
lycurguses	lycurgus
lydia	lydia
lye	lye
lyen	lyen
lying	ly
lym	lym
lymoges	lymog
lynn	lynn
lysander	lysand
m	m
ma	ma
maan	maan
mab	mab
macbeth	macbeth
maccabaeus	maccabaeu
macdonwald	macdonwald

macduff	macduff
mace	mace
macedon	macedon
maces	mace
machiavel	machiavel
machination	machin
machinations	machin
machine	machin
mack	mack
macmorris	macmorri
maculate	macul
maculation	macul
mad	mad
madam	madam
madame	madam
madams	madam
madcap	madcap
madded	mad
madding	mad
made	made
madeira	madeira
madly	madli
madman	madman
madmen	madmen
madness	mad
madonna	madonna
madrigals	madrig
mads	mad
maecenas	maecena
maggot	maggot
maggots	maggot
magic	magic
magical	magic
magician	magician
magistrate	magistr
magistrates	magistr
magnanimity	magnanim
magnanimous	magnanim
magni	magni
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magnificence	magnific
magnificent	magnific
magnifico	magnifico
magnificoes	magnifico
magnus	magnu
mahomet	mahomet
mahu	mahu
maid	maid

maiden	maiden
maidenhead	maidenhead
maidenheads	maidenhead
maidenhood	maidenhood
maidenhoods	maidenhood
maidenliest	maidenliest
maidenly	maidenli
maidens	maiden
maidhood	maidhood
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mail	mail
mailed	mail
mails	mail
maim	maim
maimed	maim
maims	maim
main	main
maincourse	maincours
maine	main
mainly	mainli
mainmast	mainmast
mains	main
maintain	maintain
maintained	maintain
maintains	maintain
maintenance	mainten
mais	mai
maison	maison
majestas	majesta
majestee	majeste
majestic	majest
majestical	majest
majestically	majest
majesties	majesti
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major	major
majority	major
mak	mak
make	make
makeless	makeless
maker	maker
makers	maker
makes	make
makest	makest
maketh	maketh
making	make
makings	make
mal	mal

mala	mala
maladies	maladi
malady	maladi
malapert	malapert
malcolm	malcolm
malcontent	malcont
malcontents	malcont
male	male
maledictions	maledict
malefactions	malefact
malefactor	malefactor
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males	male
malevolence	malevol
malevolent	malevol
malhecho	malhecho
malice	malic
malicious	malici
maliciously	malici
malign	malign
malignancy	malign
malignant	malign
malignantly	malignantli
malkin	malkin
mall	mall
mallard	mallard
mallet	mallet
mallows	mallow
malmsey	malmsei
malt	malt
maltworms	maltworm
malvolio	malvolio
mamillius	mamilliu
mammering	mammer
mammet	mammet
mammets	mammet
mammock	mammock
man	man
manacle	manacl
manacles	manacl
manage	manag
managed	manag
manager	manag
managing	manag
manakin	manakin
manchus	manchu
mandate	mandat
mandragora	mandragora

mandrake	mandrak
mandrakes	mandrak
mane	mane
manent	manent
manes	mane
manet	manet
manfully	manfulli
mangle	mangl
mangled	mangl
mangles	mangl
mangling	mangl
mangy	mangi
manhood	manhood
manhoods	manhood
manifest	manifest
manifested	manifest
manifests	manifest
manifold	manifold
manifoldly	manifoldli
manka	manka
mankind	mankind
manlike	manlik
manly	manli
mann	mann
manna	manna
manner	manner
mannerly	mannerli
manners	manner
manningtree	manningtre
mannish	mannish
manor	manor
manors	manor
mans	man
mansion	mansion
mansionry	mansionri
mansions	mansion
manslaughter	manslaught
mantle	mantl
mantled	mantl
mantles	mantl
mantua	mantua
mantuan	mantuan
manual	manual
manure	manur
manured	manur
manus	manu
many	mani
map	map

mapp	mapp
maps	map
mar	mar
marble	marbl
marbled	marbl
marcade	marcad
marcellus	marcellu
march	march
marches	march
marcheth	marcheth
marching	march
marchioness	marchio
marchpane	marchpan
marcians	marcian
marcius	marciu
marcus	marcu
mardian	mardian
mare	mare
mares	mare
marg	marg
margarelon	margarelon
margaret	margaret
marge	marg
margent	margent
margery	margeri
maria	maria
marian	marian
mariana	mariana
maries	mari
marigold	marigold
mariner	marin
mariners	marin
maritime	maritim
marjoram	marjoram
mark	mark
marked	mark
market	market
marketable	market
marketplace	marketplac
markets	market
marking	mark
markman	markman
marks	mark
marl	marl
marle	marl
marmoset	marmoset
marquess	marquess
marquis	marqui

marr	marr
marriage	marriag
marriages	marriag
married	marri
marries	marri
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marrow	marrow
marrowless	marrowless
marrows	marrow
marry	marri
marrying	marri
mars	mar
marseilles	marseil
marsh	marsh
marshal	marshal
marshalsea	marshalsea
marshalship	marshalship
mart	mart
marted	mart
martem	martem
martext	martext
martial	martial
martin	martin
martino	martino
martius	martiu
martlemas	martlema
martlet	martlet
marts	mart
martyr	martyr
martyrs	martyr
marullus	marullu
marv	marv
marvel	marvel
marvell	marvel
marvellous	marvel
marvellously	marvel
marvels	marvel
mary	mari
mas	ma
masculine	masculin
masham	masham
mask	mask
masked	mask
masker	masker
maskers	masker
masking	mask
masks	mask
mason	mason

masonry	masonri
masons	mason
masque	masqu
masquers	masquer
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mass	mass
massacre	massacr
massacres	massacr
masses	mass
massy	massi
mast	mast
mastcr	mastcr
master	master
masterdom	masterdom
masterest	masterest
masterless	masterless
masterly	masterli
masterpiece	masterpiec
masters	master
mastership	mastership
mastic	mastic
mastiff	mastiff
mastiffs	mastiff
masts	mast
match	match
matches	match
matcheth	matcheth
matching	match
matchless	matchless
mate	mate
mated	mate
mater	mater
material	materi
mates	mate
mathematics	mathemat
matin	matin
matron	matron
matrons	matron
matter	matter
matters	matter
matthew	matthew
mattock	mattock
mattress	mattress
mature	matur
maturity	matur
maud	maud
maudlin	maudlin

maugre	maugr
maul	maul
maund	maund
mauri	mauri
mauritania	mauritania
mauvais	mauvai
maw	maw
maws	maw
maxim	maxim
may	mai
mayday	maydai
mayest	mayest
mayor	mayor
maypole	maypol
mayst	mayst
maz	maz
maze	maze
mazed	maze
mazes	maze
mazzard	mazzard
me	me
meacock	meacock
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meagre	meagr
meal	meal
meals	meal
mealy	meali
mean	mean
meanders	meander
meaner	meaner
meanest	meanest
meaneth	meaneth
meaning	mean
meanings	mean
meanly	meanli
means	mean
meant	meant
meantime	meantim
meanwhile	meanwhil
measles	measl
measur	measur
measurable	measur
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measureless	measureless

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mediterraneum mediterraneum
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meekly meekli
meekness meek
meet meet
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meetest meetest
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meetly meetli
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meets meet
meg meg
mehercle mehercl
meilleur meilleur

meiny	meini
meisen	meisen
melancholies	melancholi
melancholy	melancholi
melford	melford
mell	mell
mellifluous	melliflu
mellow	mellow
mellowing	mellow
melodious	melodi
melody	melodi
melt	melt
melted	melt
melteth	melteth
melting	melt
melts	melt
melun	melun
member	member
members	member
memento	memento
memorable	memor
memorandums	memorandum
memorial	memori
memorials	memori
memories	memori
memoriz	memoriz
memorize	memor
memory	memori
memphis	memphi
men	men
menac	menac
menace	menac
menaces	menac
menaphon	menaphon
menas	mena
mend	mend
mended	mend
mender	mender
mending	mend
mends	mend
menecrates	menecr
menelaus	menelau
menenius	meneniu
mental	mental
menteith	menteith
mention	mention
mentis	menti
menton	menton

mephostophilus	mephostophilu
mer	mer
mercatante	mercatant
mercatio	mercatio
mercenaries	mercenari
mercenary	mercenari
mercer	mercer
merchandise	merchandis
merchandized	merchand
merchant	merchant
merchants	merchant
mercies	merci
merciful	merci
mercifully	mercifulli
merciless	merciless
mercurial	mercuri
mercuries	mercuri
mercury	mercuri
mercutio	mercutio
mercy	merci
mere	mere
mered	mere
merely	mere
merest	merest
meridian	meridian
merit	merit
merited	merit
meritorious	meritori
merits	merit
merlin	merlin
mermaid	mermaid
mermaids	mermaid
merops	merop
merrier	merrier
merriest	merriest
merrily	merrili
merriman	merriman
merriment	merriment
merriments	merriment
merriness	merri
merry	merri
mervailous	mervail
mes	me
mesh	mesh
meshes	mesh
mesopotamia	mesopotamia
mess	mess
message	messag

messages messag
messala messala
messaline messalin
messenger messeng
messengers messeng
messes mess
messina messina
met met
metal metal
metals metal
metamorphis metamorphi
metamorphoses metamorphos
metaphor metaphor
metaphysical metaphys
metaphysics metaphys
mete mete
metellus metellu
meteor meteor
meteors meteor
meteyard meteyard
metheglin metheglin
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methink methink
methinks methink
method method
methods method
methought methought
methoughts methought
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metropolis metropoli
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mettle mettl
mettled mettl
meus meu
mew mew
mewed mew
mewling mewl
mexico mexico
mi mi
mice mice
michael michael
michaelmas michaelma
micher micher
miching mich
mickle mickl
microcosm microcosm
mid mid

midas	mida
middest	middest
middle	middl
middleham	middleham
midnight	midnight
midriff	midriff
midst	midst
midsummer	midsumm
midway	midwai
midwife	midwif
midwives	midwiv
mienne	mienn
might	might
mightful	might
mightier	mightier
mightiest	mightiest
mightily	mightili
mightiness	mighti
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milan	milan
milch	milch
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mildest	mildest
mildew	mildew
mildews	mildew
mildly	mildli
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mile	mile
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milford	milford
militarist	militarist
military	militari
milk	milk
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milkmaid	milkmaid
milks	milk
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milky	milki
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mistletoe	mistleto
mistook	mistook
mistreadings	mistread
mistress	mistress
mistresses	mistress
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mistriship	mistriship
mistrust	mistrust
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mistrusting	mistrust
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mockeries	mockeri
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mocks	mock
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mockwater	mockwat
model	model
modena	modena
moderate	moder
moderately	moder
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modern	modern
modest	modest
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moe	moe
moi	moi
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moist	moist
moisten	moisten
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moldwarp	moldwarp
mole	mole
molehill	molehil
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molten	molten
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moment	moment
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mon	mon

monachum monachum
monarch monarch
monarchies monarchi
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moody	moodi
moon	moon
moonbeams	moonbeam
moonish	moonish
moonlight	moonlight
moons	moon
moonshine	moonshin
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moor	moor
moorfields	moorfield
moors	moor
moorship	moorship
mop	mop
mope	mope
moping	mope
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moral	moral
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morality	moral
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mordake	mordak
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moreover	moreov
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morgan	morgan
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morning	morn
mornings	morn
morocco	morocco
morris	morri
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morsel	morsel
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mossgrown	mossgrown
most	most
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mother	mother
mothers	mother
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motion	motion
motionless	motionless
motions	motion
motive	motiv
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motley	motlei
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mount	mount
mountain	mountain
mountaineer	mountain
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mountainous	mountain
mountains	mountain
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mountebank	mountebank
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mourners	mourner
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mummy	mummi
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muniments	muniment
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murder	murder
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murderer	murder
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murdering	murder
murderous	murder
murders	murder
mure	mure
murk	murk
murkiest	murkiest
murky	murki
murmur	murmur
murmurers	murmur
murmuring	murmur

murrain	murrain
murray	murrai
murrion	murrion
murther	murther
murtherer	murther
murtherers	murther
murthering	murther
murtherous	murther
murthers	murther
mus	mu
muscadel	muscadel
muscovites	muscovit
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muscovy	muscovi
muse	muse
muses	muse
mush	mush
mushrooms	mushroom
music	music
musical	music
musician	musician
musicians	musician
musics	music
musing	muse
musings	muse
musk	musk
musket	musket
muskets	musket
muskos	musko
muss	muss
mussel	mussel
mussels	mussel
must	must
mustachio	mustachio
mustard	mustard
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mutability	mutabl
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mutual	mutual
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mv	mv
mww	mww
my	my
mynheers	mynheer
myrmidon	myrmidon
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myrtle	myrtl
myself	myself
myst	myst
mysteries	mysteri
mystery	mysteri
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naiads	naiad
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nak	nak
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nakedness	naked
nal	nal
nam	nam
name	name
named	name
nameless	nameless
namely	name
names	name
namest	namest
naming	name
nan	nan

nance	nanc
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nape	nape
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napkin	napkin
napkins	napkin
naples	napl
napless	napless
napping	nap
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narbon	narbon
narcissus	narcissu
narines	narin
narrow	narrow
narrowly	narrowli
naso	naso
nasty	nasti
nathaniel	nathaniel
natifs	natif
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naturally	natur
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nave	nave
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nay	nai
nayward	nayward
nayword	nayword
nazarite	nazarit
ne	ne
neaf	neaf
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neapolitan	neapolitan

neapolitans	neapolitan
near	near
nearer	nearer
nearest	nearest
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nearness	near
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neb	neb
nebour	nebour
nebuchadnezzar	nebuchadnezzar
nec	nec
necessaries	necessari
necessarily	necessarili
necessary	necessari
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necessities	necess
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neck	neck
necklace	necklac
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nectar	nectar
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needy	needi
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negation	negat
negative	neg
negatives	neg
neglect	neglect
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neglection	neglect
negligence	neglig

negligent	neglig
negotiate	negoti
negotiations	negoti
negro	negro
neigh	neigh
neighbors	neighbor
neighbour	neighbour
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neighbouring	neighbour
neighbourly	neighbourli
neighbours	neighbour
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neighs	neigh
neither	neither
nell	nell
nemean	nemean
nemesis	nemesi
neoptolemus	neoptolemu
nephew	nephew
nephews	nephew
neptune	neptun
ner	ner
nereides	nereid
nerissa	nerissa
nero	nero
neroes	nero
ners	ner
nerve	nerv
nerves	nerv
nervii	nervii
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nessus	nessu
nest	nest
nestor	nestor
nests	nest
net	net
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netherlands	netherland
nets	net
nettle	nettl
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neuter	neuter
neutral	neutral
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nevil	nevil
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new	new
newborn	newborn
newer	newer
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newgate	newgat
newly	newli
newness	new
news	new
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nibbling	nibbl
nicanor	nicanor
nice	nice
nicely	nice
niceness	nice
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nicety	niceti
nicholas	nichola
nick	nick
nickname	nicknam
nicks	nick
niece	niec
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niggard	niggard
niggarding	niggard
niggardly	niggardli
nigh	nigh
night	night
nightcap	nightcap
nightcaps	nightcap
nighted	night
nightgown	nightgown
nightingale	nightingal
nightingales	nightingal
nightly	nightli
nightmare	nightmar
nights	night
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nihil	nihil
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nly	nly
nnight	nnight
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no	no
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nobleman	nobleman
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obedience	obedi
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obeisance	obeis
oberon	oberon
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obeyed	obei
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object	object
objected	object
objections	object
objects	object
oblation	oblat
oblations	oblat
obligation	oblig
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obliged	oblig
oblique	obliqu
oblivion	oblivion
oblivious	oblivi
obloquy	obloqui
obscene	obscen
obscenely	obscen
obscur	obscur
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obscured	obscur
obscurely	obscur
obscures	obscur
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obsequies	obsequi
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octavia octavia
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olden olden
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oldest	oldest
oldness	old
olive	oliv
oliver	oliv
olivers	oliv
olives	oliv
olivia	olivia
olympian	olympian
olympus	olympu
oman	oman
omans	oman
omen	omen
ominous	omin
omission	omiss
omit	omit
omittance	omitt
omitted	omit
omitting	omit
omne	omn
omnes	omn
omnipotent	omnipot
on	on
once	onc
one	on
ones	on
oneyers	oney
ongles	ongl
onion	onion
onions	onion
only	onli
onset	onset
onward	onward
onwards	onward
oo	oo
ooze	ooz
oozes	ooz
oozy	oozi
op	op
opal	opal
ope	op
open	open
opener	open
opening	open
openly	openli
openness	open
opens	open
operant	oper
operate	oper

operation oper
operations oper
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ophelia ophelia
opinion opinion
opinions opinion
opportune opportun
opportunities opportun
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plaintiff	plaintiff
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planetary	planetari
planets	planet
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pleasant	pleasant
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plebeians	plebeian
plebeii	plebeii
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pockets	pocket
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poem	poem
poesy	poesi
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poland	poland
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polecat	polecat
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polemon	polemon
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polydore	polydor
polyxena	polyxena
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pool	pool
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poorly	poorli
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progenitors	progenitor
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propontic	propont
proportion	proport
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prosecute	prosecut
prosecution	prosecut
proselytes	proselyt
proserpina	proserpina
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prosperity	prosper
prospero	prospero
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prospers	prosper
prostitute	prostitut
prostrate	prostrat
protect	protect

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proud proud
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proverb proverb
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psalm psalm
psalmist psalmist
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quests	quest
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qui	qui
quick	quick
quicken	quicken

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quicklier	quicklier
quickly	quickli
quickness	quick
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quicksands	quicksand
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quid	quid
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quier	quier
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quietly	quietli
quietness	quiet
quietus	quietu
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quilt	quilt
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quince	quinc
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quis	qui
quit	quit
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quoifs	quoif
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quoits quoit
quondam quondam
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reveal	reveal
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reynaldo	reynaldo
rford	rford
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rhapsody	rhapsodi
rheims	rheim
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saffron	saffron
sag	sag
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sagittary	sagittari
said	said
saidst	saidst
sail	sail
sailing	sail
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slippery	slipperi
slips	slip
slish	slish
slit	slit
sliver	sliver
slobb	slobb
slomber	slomber
slop	slop
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slothful	sloth
slough	slough
slovenly	slovenli
slovenry	slovenri
slow	slow
slower	slower
slowly	slowli
slowness	slow
slubber	slubber
slug	slug
sluggard	sluggard
sluggardiz	sluggardiz
sluggish	sluggish
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slumb	slumb
slumber	slumber
slumbers	slumber
slumbery	slumberi
slunk	slunk
slut	slut
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sluttery	slutteri
sluttish	sluttish
sluttishness	sluttish
sly	sly
slys	sly
smack	smack
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smacks	smack
small	small
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smart	smart
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smartly	smartli
smatch	smatch
smatter	smatter
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smilingly	smilingli
smirch	smirch
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smithfield	smithfield
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smothered	smother
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smug	smug

smulkin	smulkin
smutch	smutch
snaffle	snaffl
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snapp	snapp
snapper	snapper
snar	snar
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snarl	snarl
snarleth	snarleth
snarling	snarl
snatch	snatch
snatchers	snatcher
snatches	snatch
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sneak	sneak
sneaking	sneak
sneap	sneap
sneaping	sneap
sneck	sneck
snip	snip
snipe	snipe
snipt	snipt
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snuff	snuff
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soak	soak
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sobbing	sob
sober	sober
soberly	soberli
sobriety	sobrieti
sobs	sob
sociable	sociabl
societies	societi
society	societi
socks	sock
socrates	socrat
sod	sod
sodden	sodden
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soever	soever
soft	soft
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softer	softer
softest	softest
softly	softli
softness	soft
soil	soil
soiled	soil
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soit	soit
sojourn	sojourn
sol	sol
sola	sola
solace	solac
solanio	solanio
sold	sold
soldat	soldat
solder	solder
soldest	soldest
soldier	soldier
soldiers	soldier
soldiership	soldiership
sole	sole
solely	sole
solem	solem
solemn	solemn
solemness	solem
solemnities	solemn
solemnity	solemn
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solemnized	solemn

solemnly	solemnli
soles	sole
solicit	solicit
solicitation	solicit
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solicitings	solicit
solicitor	solicitor
solicits	solicit
solid	solid
solidares	solidar
solidity	solid
solinus	solinu
solitary	solitari
solomon	solomon
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solum	solum
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solyman	solyman
some	some
somebody	somebodi
someone	someon
somerset	somerset
somerville	somervil
something	someth
sometime	sometim
sometimes	sometim
somever	somev
somewhat	somewhat
somewhere	somewher
somewhither	somewhith
somme	somm
son	son
sonance	sonanc
song	song
songs	song
sonnet	sonnet
sonneting	sonnet
sonnets	sonnet
sons	son
sont	sont
sonties	sonti
soon	soon
sooner	sooner
soonest	soonest
sooth	sooth
soothe	sooth
soothers	soother

soothing	sooth
soothsay	soothsai
soothsayer	soothsay
sooty	sooti
sop	sop
sophister	sophist
sophisticated	sophist
sophy	sophi
sops	sop
sorcerer	sorcer
sorcerers	sorcer
sorceress	sorceress
sorceries	sorceri
sorcery	sorceri
sore	sore
sorel	sorel
sorely	sore
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sores	sore
sorrier	sorrier
sorriest	sorriest
sorrow	sorrow
sorrowed	sorrow
sorrowest	sorrowest
sorrowful	sorrow
sorrowing	sorrow
sorrows	sorrow
sorry	sorri
sort	sort
sortance	sortanc
sorted	sort
sorting	sort
sorts	sort
sossius	sossiu
sot	sot
soto	soto
sots	sot
sottish	sottish
soud	soud
sought	sought
soul	soul
sould	sould
soulless	soulless
souls	soul
sound	sound
sounded	sound
sounder	sounder
soundest	soundest

sounding	sound
soundless	soundless
soundly	soundli
soundness	sound
soundpost	soundpost
sounds	sound
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source	sourc
sources	sourc
sourest	sourest
sourly	sourli
sours	sour
sous	sou
souse	sous
south	south
southam	southam
southampton	southampton
southerly	southerli
southern	southern
southward	southward
southwark	southwark
southwell	southwel
souviendrai	souviendrai
sov	sov
sovereign	sovereign
sovereignest	sovereignest
sovereignly	sovereignli
sovereignty	sovereignti
sovereignvours	sovereignvour
sow	sow
sowing	sow
sowl	sowl
sowter	sowter
space	space
spaces	space
spacious	spaciou
spade	spade
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spak	spak
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spakest	spakest
span	span
spangle	spangl
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spaniard	spaniard
spaniel	spaniel
spaniels	spaniel

spanish	spanish
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spans	span
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sparing	spare
sparingly	sparingli
spark	spark
sparkle	sparkl
sparkles	sparkl
sparkling	sparkl
sparks	spark
sparrow	sparrow
sparrows	sparrow
sparta	sparta
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spavin	spavin
spavins	spavin
spawn	spawn
speak	speak
speaker	speaker
speakers	speaker
speakest	speakest
speaketh	speaketh
speaking	speak
speaks	speak
spear	spear
speargrass	speargrass
spears	spear
special	special
specialities	special
specially	special
specialties	specialti
specialty	specialti
specify	specifi
speciously	specious
spectacle	spectacl
spectacled	spectacl
spectacles	spectacl
spectators	spectat
spectatorship	spectatorship
speculation	specul
speculations	specul
speculative	specul
sped	sped
speech	speech
speeches	speech

speechless	speechless
speed	speed
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speedier	speedier
speediest	speediest
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speeding	speed
speeds	speed
speedy	speedi
speens	speen
spell	spell
spelling	spell
spells	spell
spelt	spelt
spencer	spencer
spend	spend
spendest	spendest
spending	spend
spends	spend
spendthrift	spendthrift
spent	spent
sperato	sperato
sperm	sperm
spero	spero
sperr	sperr
spher	spher
sphere	sphere
sphered	sphere
spheres	sphere
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sphery	spheri
sphinx	sphinx
spice	spice
spiced	spice
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spices	spice
spider	spider
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spies	spi
spieth	spieth
spightfully	spightfulli
spigot	spigot
spill	spill
spilling	spill
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spilth	spilth
spin	spin
spinii	spinii
spinners	spinner
spinster	spinster
spinsters	spinster
spire	spire
spirit	spirit
spirited	spirit
spiritless	spiritless
spirits	spirit
spiritual	spiritu
spiritualty	spiritualti
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splendour	splendour
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splinters	splinter
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spoil	spoil
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spok	spok
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spokes	spoke
spokesman	spokesman
sponge	spong
spongy	spongi
spoon	spoon
spoons	spoon
sport	sport

sportful	sport
sporting	sport
sportive	sportiv
sports	sport
spot	spot
spotless	spotless
spots	spot
spotted	spot
spousal	spousal
spouse	spous
spout	spout
spouting	spout
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sprightful	spright
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springhalt	springhalt
springing	spring
springs	spring
springtime	springtim
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spurns	spurn
spurr	spurr
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spurring	spur
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spying	spy
squabble	squabbl
squadron	squadron
squadrons	squadron
squand	squand
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squeaking	squeak
squeal	squeal
squealing	squeal
squeezes	squeez
squeezing	squeez
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squints	squint
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squirrel	squirrel
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stab	stab
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stabbed	stab
stabbing	stab
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stables	stabl
stablish	stablish
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stabs	stab
stacks	stack
staff	staff
stafford	stafford
staffords	stafford
staffordshire	staffordshir
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stagger	stagger
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stair	stair
stairs	stair
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stalks	stalk
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standard	standard
standards	standard
stander	stander
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standing	stand
stands	stand
staniel	staniel
stanley	stanlei
stanze	stanz
stanzo	stanzo
stanzos	stanzo
staple	stapl
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starkly	starkli
starlight	starlight
starling	starl
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state	state
statelier	stateli
stately	state
states	state
statesman	statesman
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statilius	statiliu
station	station
statist	statist
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statue	statu
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stephen stephen
stepmothers stepmoth
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sterile steril
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sternness	stern
steterat	steterat
stew	stew
steward	steward
stewards	steward
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stickler	stickler
sticks	stick
stiff	stiff
stiffen	stiffen
stiffly	stiffli
stifle	stifl
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stigmatic	stigmat
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stiller	stiller
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stillness	still
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stirrer	stirrer
stirrers	stirrer
stirreth	stirreth
stirring	stir
stirrup	stirrup
stirrups	stirrup
stirs	stir
stitchery	stitcheri

stitches	stitch
stithied	stithi
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stoccadoes	stoccado
stoccata	stoccata
stock	stock
stockfish	stockfish
stocking	stock
stockings	stock
stockish	stockish
stocks	stock
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stoics	stoic
stokesly	stokesli
stol	stol
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stomach	stomach
stomachers	stomach
stomaching	stomach
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ston	ston
stone	stone
stonecutter	stonecutt
stones	stone
stonish	stonish
stony	stoni
stood	stood
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stoop	stoop
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stories	stori
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storming	storm
storms	storm
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story	stori
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stoutly	stoutli
stoutness	stout
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stowed	stow
strachy	strachi
stragglers	straggler
straggling	straggl
straight	straight
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strain	strain
strained	strain
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strains	strain
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straited	strait
straiter	straiter
straitly	straitli
straitness	strait
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strand	strand
strange	strang
strangely	strang
strangeness	strang
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strangled	strangl
strangler	strangler
strangles	strangl
strangling	strangl
strappado	strappado
straps	strap
stratagem	stratagem
stratagems	stratagem
stratford	stratford

strato	strato
straw	straw
strawberries	strawberri
strawberry	strawberri
straws	straw
strawy	strawi
stray	strai
straying	strai
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stream	stream
streamers	streamer
streaming	stream
streams	stream
streching	strech
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streets	street
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strengthen	strengthen
strengthened	strengthen
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strengths	strength
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stretches	stretch
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strew	strew
strewing	strew
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strewments	strewment
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strictest	strictest
strictly	strictli
stricture	strictur
stride	stride
strides	stride
striding	stride
strife	strife
strifes	strife
strik	strik
strike	strike
strikers	striker
strikes	strike
strikest	strikest
striking	strike

string	string
stringless	stringless
strings	string
strip	strip
stripes	stripe
stripling	stripl
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stripp	stripp
stripping	strip
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striving	strive
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stronds	strond
strong	strong
stronger	stronger
strongest	strongest
strongly	strongli
strooke	strook
strossers	strosser
strove	strove
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stroy	stroi
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strucken	strucken
struggle	struggl
struggles	struggl
struggling	struggl
strumpet	strumpet
strumpeted	strumpet
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struts	strut
strutted	strut
strutting	strut
stubble	stubbl
stubborn	stubborn
stubbornest	stubbornest
stubbornly	stubbornli
stubbornness	stubborn
stuck	stuck
studded	stud
student	student

students	student
studied	studi
studies	studi
studious	studiou
studiously	studious
studs	stud
study	studi
studying	studi
stuff	stuff
stuffing	stuf
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stumble	stumbl
stumbled	stumbl
stumblest	stumblest
stumbling	stumbl
stump	stump
stumps	stump
stung	stung
stupefy	stupefi
stupid	stupid
stupified	stupifi
stuprum	stuprum
sturdy	sturdi
sty	sty
styga	styga
stygian	stygian
styl	styl
style	style
styx	styx
su	su
sub	sub
subcontracted	subcontract
subdu	subdu
subdue	subdu
subdued	subdu
subduements	subduement
subdues	subdu
subduing	subdu
subject	subject
subjected	subject
subjection	subject
subjects	subject
submerg	submerg
submission	submiss
submissive	submiss
submit	submit
submits	submit
submitting	submit

suborn	suborn
subornation	suborn
suborned	suborn
subscrib	subscrib
subscribe	subscrib
subscribed	subscrib
subscribes	subscrib
subscription	subscript
subsequent	subsequ
subsidies	subsidi
subsidy	subsidi
subsist	subsist
subsisting	subsist
substance	substanc
substances	substanc
substantial	substanti
substitute	substitut
substituted	substitut
substitutes	substitut
substitution	substitut
subtile	subtil
subtilly	subtilli
subtle	subtl
subtleties	subtleti
subtlety	subtleti
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subtractors	subtractor
suburbs	suburb
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subverts	subvert
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success	success
successantly	successantli
successes	success
successful	success
successfully	successfulli
succession	success
successive	success
successively	success
successor	successor
successors	successor
succour	succour
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such	such
suck	suck
sucker	sucker
suckers	sucker
sucking	suck
suckle	suckl
sucks	suck
sudden	sudden
suddenly	suddenli
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sues	sue
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sufferance	suffer
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suffering	suffer
suffers	suffer
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suffices	suffic
sufficeth	sufficeth
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sufficient	suffici
sufficiently	suffici
sufficing	suffic
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suffigance	suffig
suffocate	suffoc
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suffolk	suffolk
suffrage	suffrag
suffrages	suffrag
sug	sug
sugar	sugar
sugarsop	sugarsop
suggest	suggest
suggested	suggest
suggesting	suggest
suggestion	suggest
suggestions	suggest
suggests	suggest
suis	sui

suit	suit
suitable	suitabl
suited	suit
suiting	suit
suitor	suitor
suitors	suitor
suits	suit
suivez	suivez
sullen	sullen
sullens	sullen
sullied	sulli
sullies	sulli
sully	sulli
sulph	sulph
sulpherous	sulpher
sulphur	sulphur
sulphurous	sulphur
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sultry	sultri
sum	sum
sumless	sumless
summ	summ
summa	summa
summary	summari
summer	summer
summers	summer
summit	summit
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yielding	yield
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yok	yok
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  younker             younker
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  yourself            yourself
  yourselves          yourselv
  youth              youth
  youthful            youth
  youths             youth
  youtli             youtli
  zanies             zani
  zany               zani
  zeal               zeal
  zealous             zealou
  zeals              zeal
  zed                zed
  zenelophon          zenelophon
  zenith             zenith
  zephyrs             zephyr
  zir               zir
  zo                zo
  zodiac             zodiac
  zodiacs            zodiac
  zone               zone
  zounds             zound
  zwagger             zwagger
}

# Create a full-text index to use for testing the stemmer.
#
db close
sqlite3 db :memory:
db eval {
 CREATE VIRTUAL TABLE t1 USING fts1(word, tokenize Porter);
}
```

```
foreach {pfrom pto} $porter_test_data {
 do_test fts1porter-$pfrom {
  execsql {
    DELETE FROM t1_term;
    DELETE FROM t1_content;
    INSERT INTO t1(word) VALUES($pfrom);
    SELECT term FROM t1_term;
  }
 } $pto
}

finish_test
```

Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-src-3071700.zip-cosi-expand-archive-cheW8kUH/sqlite-src-3071700/test/fts1porter.test
No license file was found, but licenses were detected in source scan.

<dd><p>The psow query parameter works with the default windows and unix VFSes but might be a no-op for other proprietary or non-standard VFSes.

Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-doc-3071700.zip-cosi-expand-archive-r9EckcaZ/sqlite-doc-3071700/requirements.html
No license file was found, but licenses were detected in source scan.

```
<html>
<head>
<title>SQLite Consortium Agreement</title>
</head>
<body bgcolor="white">
<h1 align="center">
SQLite Consortium Agreement
</h1>

<p>This SQLite Consortium Agreement ("Agreement") is made and
entered into as of the _____ day of _____, 2007 ("Effective Date")
by and between _____ (the "Company"), and
Hipp, Wyrick & Company, Inc., a Georgia Corporation with
headquarters at 6200 Maple Cove Lane, Charlotte, NC ("Hwaci").</p>

<p>WHEREAS, Hwaci is the developer of a serverless, embeddable, public
domain SQL database engine available at
<a href="http://www.sqlite.org/">http://www.sqlite.org/</a>
("SQLite"); and</p>

<p>WHEREAS, Company wishes to support the independent development of
```

the SQLite database engine to insure the continuing reliability,
vitality, and independence of SQLite, and in connection therewith,
Company wishes to provide funds for ongoing research, development,
and maintenance of the SQLite code base, operation of the SQLite
website, protection and maintenance of the SQLite
trademark, as well as for promotion of SQLite at conferences and
trade shows; and

WHEREAS, Company wishes to receive benefits in the form of
services from Hwaci in consideration for their support of SQLite; and

WHEREAS, Company and Hwaci each wish SQLite to be supported and
maintained as an independent, community-driven project, and to
ensure the SQLite development team remains independent.

NOW, THEREFORE, in consideration of the mutual promises contained
herein, the parties agree as follows:

<h2>1.0 Definitions</h2>

<h3>1.1 SQLite Developers</h3>
The "SQLite Developers" are the employees or contractors of Hwaci engaged
in the development of SQLite, including without limitation the
SQLite Architect.

<h3>1.2 SQLite Architect</h3>
The "SQLite Architect" is the SQLite Developer with ultimate
responsibility and authority over changes and maintenance of the
SQLite code. The current SQLite Architect is the original designer
and developer of SQLite, D. Richard Hipp. Hwaci may change the
SQLite Architect from time to time upon approval by Company.

<h3>1.3 Consortium Member</h3>
A "Consortium Member" is a company or organization, including
but not limited to Company, which has entered into an agreement
with Hwaci which is substantially similar to this Agreement.

<h2>2.0 Agreement<h2>

<h3>2.1 Responsibilities And Obligations Of SQLite Developers</h3>

<h4>2.1.1 General Support</h4>
The SQLite Developers shall provide, without limit,
timely and accurate answers, advice, and instruction
in response to questions and comments from Company about SQLite
submitted by email or by telephone at any time day or night.

<h4>2.1.2 Debugging Support</h4>
The SQLite Developers shall at Company's request provide
Company with direct assistance
in debugging applications that are built upon or use SQLite.
The combined time for Debugging Support and Custom
Development for Company is limited to 330 hours per year.

<h4>2.1.3 Custom Development</h4>
The SQLite Developers shall at the request of Company
write new extensions or enhancements
to SQLite according to Company's specifications. These extensions
and enhancements may be proprietary to Company or open source or
with the consent of both Company and the SQLite Architect may
be folded into the public domain SQLite source tree.
The time devoted to Custom Development for Company is limited 220 hours
per year.

<h4>2.1.4 Custom Builds</h4>
The SQLite Developers shall at Company's request provide Company
with specialized builds of SQLite according to Company's specifications.

<h4>2.1.5 Legacy Support</h4>
The SQLite Developers shall at Company's request provide support
and bug-fix patches for any historical version of SQLite.

<h4>2.1.6 Custom Testing</h4>
The SQLite Developers shall at Company's request set up and run
acceptance tests according Company's specifications that are specifically
designed to exercise SQLite as configured and used by Company.
These acceptance tests shall be run and shall pass prior to any release
of SQLite.

<h4>2.1.7 Priority Bug Fixes</h4>
The SQLite Developers shall assign highest priority to fixing bugs
in SQLite that are reported by Company or in which Company has
expressed a specific interest.

<h4>2.1.8 Code Quality</h4>
The SQLite Developers shall at all times keep the SQLite source
code well commented and documented and clearly structured and
organized so that an experienced and competent programmer can

understand it and support it after no more than a few months of study.

<h4>2.1.9 Backwards Compatibility</h4>
The SQLite Developers recognize that Company uses SQLite
in mission-critical applications and therefore shall work diligently
to ensure continuing bug-free correct operation and backwards
compatibility with prior releases.

<h4>2.1.10 Test Coverage</h4>
The SQLite Developers shall maintain the SQLite test suite such
that no less than 95% source code coverage is provided.

<h4>2.1.11 Website</h4>
The SQLite Developers shall maintain the SQLite website at
http://www.sqlite.org/
in good working order and all SQLite source code shall
be made freely available at such website.

<h3>2.2 Responsibilities And Obligations Of The SQLite Architect</h3>

<h4>2.2.1 Private Briefings</h4>
The SQLite Architect shall, at the request of Company,
provide Company with private notification and briefings
of any new bugs or new features in SQLite that might
effect Company's products.

<h4>2.2.2 Direction</h4>
The SQLite Architect shall coordinate the activities of SQLite
Developers and shall publish from time to time a roadmap of
proposed future changes and enhancements to SQLite.

<h4>2.2.3 Oversight</h4>
The SQLite Architect shall personally review all changes to
the SQLite Source Code and take responsibility for the quality
and correctness of those changes.

<h4>2.2.4 Continuity</h4>
The initial SQLite Architect shall be the original developer
of SQLite, D. Richard Hipp. The role of SQLite Architect shall
not be assigned to another during the term of this Agreement except

due to the disability of Dr. Hipp and with approval of Company.

<h3>2.3 Responsibilities And Obligations Of Hwaci</h3>

<h4>2.3.1 Employer</h4>
Hwaci shall act as the employer of the SQLite Developers and
SQLite Architect and shall make all tax and legal filings
and tax withholding required by employers. Hwaci shall provide
Company with W-9 information upon request.

<h4>2.3.2 Responsible Party</h4>
All obligations of the SQLite Developers set forth in this
agreement are deemed obligations of Hwaci. Hwaci shall recruit,
employ, and supervise SQLite Developers in such a way that the
responsibilities and obligations of the SQLite Developers set
forth in this agreement are upheld.

<h4>2.3.3 Multiple Developers</h4>
Hwaci shall recruit and employ as many SQLite Developers for as
many hours as can be reasonably achieved using the funds received
from Consortium Members under this agreement.
So that support for SQLite will not be interrupted by the
disability or withdrawal of any one SQLite Developer, Hwaci will
keep at least two knowledgeable and competent SQLite Developers
on staff.

<h4>2.3.4 Mentorship</h4>
Hwaci shall work to encourage independent
programmers from around the world
to become familiar with SQLite internals so that there will be a
pool of talent able to support SQLite in the future.

<h4>2.3.5 Audits</h4>
Hwaci shall keep and maintain complete and accurate records
of the use of development funds provided by Company
and shall allow Company, or its representative, a certified
public accountant mutually acceptable to Hwaci and Company,
during office hours and at reasonable intervals, no more than
once every 12 months, to inspect and make extracts or copies
of such records solely for the purpose of ascertaining Hwaci's
compliance with the objectives and requirements of this agreement.

<h4>2.3.6 Disaster Planning</h4>
Hwaci shall maintain backup copies of all

SQLite source files and documentation, current and historical,
at at least two separate locations separated from each
other and from the primary on-line SQLite repository
by at least 400 kilometers.

<h4>2.3.7 Trademark</h4>
Hwaci shall maintain ownership of the SQLite trademark and
the sqlite.org domain name and shall purchase bandwidth and
server space for the
http://www.sqlite.org/ website.

<h4>2.3.8 No Take-overs or Buy-outs</h4>
Neither Hwaci nor the SQLite Architect shall relinquish development
control of SQLite during the term of this Agreement, by acquisition or merger
or by any other means,
except with the consent of Company.

<h4>2.3.9 New Consortium Members</h4>
New Consortium Members may be accepted into the consortium from
time to time under identical terms as this agreement, or under
substantially similar terms that have been approved by existing
Consortium Members.

<h4>2.3.10 Adequate Staff</h4>
Hwaci shall recruit and employ a sufficient number of qualified
SQLite Developers to easily cover all custom development,
debugging, and general support service obligations for all
Consortium Members while still providing ample time for
the SQLite Developers to engage in general maintenance
and extension of SQLite.

<h4>2.3.11 Use Of Funds</h4>
Hwaci shall use the funds provided hereunder
solely for the development and maintenance of SQLite as set forth in
this Agreement.
Interest on funds received in advance and held in trust will
be reinvested and used for the same purposes as the principal.

<h3>2.4 Responsibilities And Obligations Of Company</h3>

<h4>2.4.1 Funding</h4>
Company shall provide funding for the ongoing support and
maintenance of SQLite as set forth in section 3.0 "Fees".

<h4>2.4.2 Copyright Disclaimer</h4>
Company acknowledges that SQLite source code and documentation
published on the SQLite website
is in the public domain and that nothing in this agreement shall change
that fact.

<h2>3.0 Fees</h2>

In consideration of the performance
by Hwaci, the SQLite Developers, and the SQLite Architect
of the obligations described herein,
Company shall pay Hwaci at least US $75,000 per year in advance
either annually, quarterly, or monthly, at Company's discretion.

<h2>4.0 Confidentiality</h2>

<h3>4.1 Definition of Confidential Information</h3>

"Confidential Information" means any Company proprietary information,
technical data, trade secrets or know-how, including, but not limited to,
research, product plans, products, services, customers, customer lists,
markets, software, developments, inventions, processes, formulas,
technology, designs, drawings, engineering, hardware configuration
information, marketing, finances or other business information
disclosed by Company either directly or indirectly in writing,
orally or by drawings or inspection of parts or equipment.

<h3>4.2 Non-Use and Non-Disclosure.</h3>

Hwaci shall not, during or subsequent to the term of this Agreement,
use Company's Confidential Information for any purpose whatsoever
other than the performance of the Services or disclose
Company's Confidential Information to any third party. The parties
acknowledge that Confidential Information will remain the sole
property of Company. Hwaci shall take all reasonable precautions
to prevent any unauthorized disclosure of Confidential Information
including, but not limited to, having each employee or
consultant of Hwaci, if any, with access to any
Confidential Information, execute a nondisclosure agreement
containing provisions in Company's favor substantially similar
to this Agreement. Confidential Information does not include
information that: (i) is known to Hwaci at the time of
disclosure to Hwaci by Company as evidenced by written
records of Hwaci; (ii) has become publicly known and made
generally available through no wrongful act of Hwaci; or

(iii) has been received by Hwaci from a third party who is
authorized to make such disclosure.

<h4>4.2.1 Disclosure Required by Law</h4>
In the event any Confidential Information is required to be disclosed
by Hwaci under the terms of a valid and effective subpoena or order
issued by a court of competent jurisdiction, or by a demand or
information request from an executive or administrative agency
or other governmental authority, Hwaci shall, unless prohibited
by the terms of a subpoena, order, or demand, promptly notify
Company of the existence, terms and circumstances surrounding
such demand or request, shall consult with Company on the
advisability of taking legally available steps to resist
or narrow such demand or request, and, if disclosure of
such Confidential Information is required, shall exercise
its reasonable best efforts to narrow the scope of disclosure
and obtain an order or other reliable assurance that
confidential treatment will be accorded to such
Confidential Information. To the extent that Hwaci
is prohibited from notifying Company of a subpoena,
order or demand, by the terms of same, Hwaci shall exercise
its reasonable efforts to narrow the scope of disclosure.

<h3>4.3 Return of Materials.</h3>

Upon the termination of this Agreement, or upon Company's
earlier request, Hwaci shall deliver to Company all of
Company's property or Confidential Information that Hwaci
may have in Hwaci's possession or control.

<h2>5.0 Intellectual Property</h2>

<h3>5.1 No Assignment</h3>

Company acknowledges that all copyrightable material, notes,
records, drawings, designs, inventions, improvements, developments,
discoveries and trade secrets made, generated, conceived, or
reduced to practice by Hwaci related to SQLite
will remain the property of Hwaci. Nothing in this Agreement
will be construed to transfer any intellectual property right
of Hwaci to Company.

<h3>5.2 Availability and Public Domain Dedication</h3>

The SQLite Developers and Hwaci shall,
subject to their discretion as to the quality
and suitability of the SQLite source code and documentation
for public release, make

the SQLite source code and documentation
publicly available as downloadable files
and make a public statement ceding all intellectual
property rights, including but not limited to copyright
and patent rights, in the SQLite source code and documentation
to the public domain.
To the extent that the SQLite Developers and Hwaci
elect not to release the SQLite
source code and documentation
publicly, they shall provide copies thereof to
Company and hereby grants to Company, under all of the
SQLite Developers' and Hwaci's
rights
including but not limited to copyright and patent rights,
in and to the SQLite source code and documentation,
perpetual, irrevocable,
worldwide, non-exclusive, sublicenseable license to use,
copy, prepare derivative works of, publicly perform and
display the SQLite source code and documentation
and derivative works thereof.

<h3>5.3 Trademark</h3>

Hwaci shall use the name "SQLite" only to apply to the
publicly available project known by such name as of the
Effective Date. Hwaci may in its discretion file such
trademark applications or registrations as it deems
appropriate to protect or record its rights therein,
and may set such policies as it deems appropriate for
licensing the use of the trademark.

<h2>6.0 Representations And Warranties</h3>

<h3>6.1 Intellectual Property Clearances.</h3>

Hwaci hereby represents and warrants that Hwaci shall
enter into agreements with the SQLite Developers sufficient
to enable Hwaci to undertake the obligations of Section 5.

<h3>6.2 Disclaimer.</h3>

THE WORK PRODUCT AND ALL MATERIAL PROVIDED BY HWACI AND
COMPANY ARE PROVIDED "AS IS." NEITHER PARTY MAKES ANY
REPRESENTATIONS OR WARRANTIES OF ANY KIND, WHETHER ORAL
OR WRITTEN, WHETHER EXPRESS, IMPLIED, OR ARISING BY STATUTE,
CUSTOM, COURSE OF DEALING OR TRADE USAGE, WITH RESPECT TO
THE SUBJECT MATTER HEREOF, IN CONNECTION WITH THIS AGREEMENT.
EACH PARTY SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED

WARRANTIES OR CONDITIONS OF TITLE, MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT.

<h2>7.0 Term And Termination</h2>

<h3>7.1 Term.</h3>

This Agreement will commence on the Effective Date and
will continue until 12 months after the Effective Date.
Thereafter, the parties may by mutual consent renew
this Agreement subject to agreement on fees to be paid by
Company for sponsorship for additional periods.

<h3>7.2 Termination.</h3>

If either party materially defaults in the performance
of any of its material obligations hereunder and if any
such default is not corrected within 30 days after notice
in writing, then the non-defaulting party, at its option,
may, in addition to any other remedies it may have, thereupon
terminate this Agreement by giving written notice of
termination to the defaulting party.

<h3>7.3 Survival.</h3>

Upon such termination all rights and duties of the
parties toward each other will cease except:
Sections 4 (Confidentiality), 5 (Intellectual Property),
and 8 (Miscellaneous) will survive termination of this Agreement.

<h2>8. Miscellaneous</h2>

<h3>8.1 Nonassignment/Binding Agreement.</h3>

The parties acknowledge that the unique nature of
Hwaci's services are substantial consideration for the
parties' entering into this Agreement. Neither this
Agreement nor any rights under this Agreement may be
assigned or otherwise transferred by Hwaci, in whole
or in part, whether voluntarily or by operation of law,
without the prior written consent of Company, which
consent will not be unreasonably withheld.
Subject to the foregoing, this Agreement will be binding
upon and will inure to the benefit of the parties and
their respective successors and assigns. Any assignment
in violation of the foregoing will be null and void.

<h3>8.2 Notices.</h3>

Any notice required or permitted under the terms of this Agreement or required by law must be in writing and must be: (a) delivered in person; (b) sent by first class registered mail, or air mail, as appropriate; or (c) sent by overnight air courier, in each case properly posted and fully prepaid to the appropriate address set forth in the preamble to this Agreement. Either party may change its address for notice by notice to the other party given in accordance with this Section. Notices will be considered to have been given at the time of actual delivery in person, three business days after deposit in the mail as set forth above, or one day after delivery to an overnight air courier service.

<h3>8.3 Waiver.</h3>

Any waiver of the provisions of this Agreement or of a party's rights or remedies under this Agreement must be in writing to be effective. Failure, neglect, or delay by a party to enforce the provisions of this Agreement or its rights or remedies at any time, will not be construed as a waiver of such party's rights under this Agreement and will not in any way affect the validity of the whole or any part of this Agreement or prejudice such party's right to take subsequent action. No exercise or enforcement by either party of any right or remedy under this Agreement will preclude the enforcement by such party of any other right or remedy under this Agreement or that such party is entitled by law to enforce.

<h3>8.4 Severability.</h3>

If any term, condition, or provision in this Agreement is found to be invalid, unlawful or unenforceable to any extent, the parties shall endeavor in good faith to agree to such amendments that will preserve, as far as possible, the intentions expressed in this Agreement. If the parties fail to agree on such an amendment, such invalid term, condition or provision will be severed from the remaining terms, conditions and provisions, which will continue to be valid and enforceable to the fullest extent permitted by law.

<h3>8.5 Integration.</h3>

This Agreement contains the entire agreement of the

parties with respect to the subject matter of this
Agreement and supersedes all previous communications,
representations, understandings and agreements,
either oral or written, between the parties with
respect to said subject matter. This Agreement
may not be amended, except by a writing signed by both parties.

<h3>8.6 Counterparts.</h3>

This Agreement may be executed in counterparts,
each of which so executed will be deemed to be an
original and such counterparts together will constitute
one and the same agreement.

<h3>8.7 Governing Law.</h3>

This Agreement will be interpreted and construed in
accordance with the laws of the State of North Carolina
and the United States of America, without regard to
conflict of law principles. All disputes arising out
of this Agreement will be subject to the exclusive
jurisdiction of the state and federal courts located in
North Carolina, and each party hereby consents to the
personal jurisdiction thereof.

<h3>8.8 Independent Contractors.</h3>

It is the intention of the parties that Hwaci is an
independent contractor. Nothing in this Agreement will
in any way be construed to constitute Hwaci or any of
its employees as an agent, employee or representative
of Company.

<h2>9.0 Signatures</h2>

The parties have executed this Agreement below to
indicate their acceptance of its terms.

<table width="100%" border="0">
<tr><td valign="top">
HWACI
By:<hr>

Print Name:<hr>

Title:<hr>

</td><td width="10%"></td>

<td valign="top">
COMPANY
By:<hr>

Print Name:<hr>

Title:<hr>

</td></tr></table>

Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-doc-3071700.zip-cosi-expand-archive-r9EckcaZ/sqlite-doc-3071700/consortium_agreement-20071201.html
No license file was found, but licenses were detected in source scan.

other proprietary or non-standard VFSes.

Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-doc-3071700.zip-cosi-expand-archive-r9EckcaZ/sqlite-doc-3071700/uri.html
No license file was found, but licenses were detected in source scan.

<html>
<title>SQLite Copyright Release Template</title>
<body bgcolor="white">
<h1 align="center">
Copyright Release for
Contributions To SQLite
</h1>

SQLite is software that implements an embeddable SQL database engine.
SQLite is available for free download from http://www.sqlite.org/.
The principal author and maintainer of SQLite has disclaimed all
copyright interest in his contributions to SQLite
and thus released his contributions into the public domain.
In order to keep the SQLite software unencumbered by copyright
claims, the principal author asks others who may from time to
time contribute changes and enhancements to likewise disclaim
their own individual copyright interest.

Because the SQLite software found at http://www.sqlite.org/ is in the
public domain, anyone is free to download the SQLite software
from that website, make changes to the software, use, distribute,
or sell the modified software, under either the original name or

under some new name, without any need to obtain permission, pay
royalties, acknowledge the original source of the software, or
in any other way compensate, identify, or notify the original authors.
Nobody is in any way compelled to contribute their SQLite changes and
enhancements back to the SQLite website. This document concerns
only changes and enhancements to SQLite that are intentionally and
deliberately contributed back to the SQLite website.

For the purposes of this document, "SQLite software" shall mean any
computer source code, documentation, makefiles, test scripts, or
other information that is published on the SQLite website,
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<table width="100%" cellpadding="0" cellspacing="0">
<tr>
<td width="60%" valign="top">
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</td><td valign="top" align="left">
Date:
</td></tr>
<td colspan=2>
Name (printed):
</td>
</tr>
</table>
</body>
</html>

Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-doc-3071700.zip-cosi-expand-archive-r9EckcaZ/sqlite-doc-3071700/copyright-release.html
No license file was found, but licenses were detected in source scan.

MMFauxFont.prc

Found in path(s):
* %%BeginFile

No license file was found, but licenses were detected in source scan.

without a shared lock, other processes are free to modify the database

Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-doc-3071700.zip-cosi-expand-archive-r9EckcaZ/sqlite-doc-3071700/atomiccommit.html
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```
# 2010 July 16
#
# The author disclaims copyright to this source code.  In place of
# a legal notice, here is a blessing:
#
#    May you do good and not evil.
#    May you find forgiveness for yourself and forgive others.
#    May you share freely, never taking more than you give.
#
#***********************************************************************
#
# This file implements tests to verify that the "testable statements" in
# the lang_select.html document are correct.
#

set testdir [file dirname $argv0]
source $testdir/tester.tcl

ifcapable !compound {
 finish_test
 return
}

do_execsql_test e_select-1.0 {
 CREATE TABLE t1(a, b);
 INSERT INTO t1 VALUES('a', 'one');
 INSERT INTO t1 VALUES('b', 'two');
 INSERT INTO t1 VALUES('c', 'three');

 CREATE TABLE t2(a, b);
 INSERT INTO t2 VALUES('a', 'I');
 INSERT INTO t2 VALUES('b', 'II');
 INSERT INTO t2 VALUES('c', 'III');

 CREATE TABLE t3(a, c);
 INSERT INTO t3 VALUES('a', 1);
 INSERT INTO t3 VALUES('b', 2);

 CREATE TABLE t4(a, c);
```

```
 INSERT INTO t4 VALUES('a', NULL);
 INSERT INTO t4 VALUES('b', 2);
} {}
set t1_cross_t2 [list               \
  a one   a I      a one   b II     \
  a one   c III    b two   a I      \
  b two   b II     b two   c III    \
  c three a I      c three b II     \
  c three c III                     \
]
set t1_cross_t1 [list                \
  a one   a one      a one   b two    \
  a one   c three    b two   a one    \
  b two   b two      b two   c three  \
  c three a one      c three b two    \
  c three c three                     \
]


# This proc is a specialized version of [do_execsql_test].
#
# The second argument to this proc must be a SELECT statement that
# features a cross join of some time. Instead of the usual ",",
# "CROSS JOIN" or "INNER JOIN" join-op, the string %JOIN% must be
# substituted.
#
# This test runs the SELECT three times - once with:
#
#   * s/%JOIN%/,/
#   * s/%JOIN%/JOIN/
#   * s/%JOIN%/INNER JOIN/
#   * s/%JOIN%/CROSS JOIN/
#
# and checks that each time the results of the SELECT are $res.
#
proc do_join_test {tn select res} {
 foreach {tn2 joinop} [list    1 ,    2 "CROSS JOIN"    3 "INNER JOIN"] {
   set S [string map [list %JOIN% $joinop] $select]
   uplevel do_execsql_test $tn.$tn2 [list $S] [list $res]
 }
}

#-------------------------------------------------------------------------
# The following tests check that all paths on the syntax diagrams on
# the lang_select.html page may be taken.
#
# EVIDENCE-OF: R-11353-33501 -- syntax diagram join-constraint
#
```

```
do_join_test e_select-0.1.1 {
 SELECT count(*) FROM t1 %JOIN% t2 ON (t1.a=t2.a)
} {3}
do_join_test e_select-0.1.2 {
 SELECT count(*) FROM t1 %JOIN% t2 USING (a)
} {3}
do_join_test e_select-0.1.3 {
 SELECT count(*) FROM t1 %JOIN% t2
} {9}
do_catchsql_test e_select-0.1.4 {
 SELECT count(*) FROM t1, t2 ON (t1.a=t2.a) USING (a)
} {1 {cannot have both ON and USING clauses in the same join}}
do_catchsql_test e_select-0.1.5 {
 SELECT count(*) FROM t1, t2 USING (a) ON (t1.a=t2.a)
} {1 {near "ON": syntax error}}

# EVIDENCE-OF: R-40919-40941 -- syntax diagram select-core
#
#   0: SELECT ...
#   1: SELECT DISTINCT ...
#   2: SELECT ALL ...
#
#   0: No FROM clause
#   1: Has FROM clause
#
#   0: No WHERE clause
#   1: Has WHERE clause
#
#   0: No GROUP BY clause
#   1: Has GROUP BY clause
#   2: Has GROUP BY and HAVING clauses
#
do_select_tests e_select-0.2 {
 0000.1  "SELECT 1, 2, 3 " {1 2 3}
 1000.1  "SELECT DISTINCT 1, 2, 3 " {1 2 3}
 2000.1  "SELECT ALL 1, 2, 3 " {1 2 3}

 0100.1  "SELECT a, b, a||b FROM t1 " {
   a one aone b two btwo c three cthree
 }
 1100.1  "SELECT DISTINCT a, b, a||b FROM t1 " {
   a one aone b two btwo c three cthree
 }
 1200.1  "SELECT ALL a, b, a||b FROM t1 " {
   a one aone b two btwo c three cthree
 }

 0010.1  "SELECT 1, 2, 3 WHERE 1 " {1 2 3}
```

```
0010.2  "SELECT 1, 2, 3 WHERE 0 " {}
0010.3  "SELECT 1, 2, 3 WHERE NULL " {}

1010.1  "SELECT DISTINCT 1, 2, 3 WHERE 1 " {1 2 3}

2010.1  "SELECT ALL 1, 2, 3 WHERE 1 " {1 2 3}

0110.1  "SELECT a, b, a||b FROM t1 WHERE a!='x' " {
  a one aone b two btwo c three cthree
}
0110.2  "SELECT a, b, a||b FROM t1 WHERE a=='x'" {}

1110.1  "SELECT DISTINCT a, b, a||b FROM t1 WHERE a!='x' " {
  a one aone b two btwo c three cthree
}

2110.0  "SELECT ALL a, b, a||b FROM t1 WHERE a=='x'" {}

0001.1  "SELECT 1, 2, 3 GROUP BY 2" {1 2 3}
0002.1  "SELECT 1, 2, 3 GROUP BY 2 HAVING count(*)=1" {1 2 3}
0002.2  "SELECT 1, 2, 3 GROUP BY 2 HAVING count(*)>1" {}

1001.1  "SELECT DISTINCT 1, 2, 3 GROUP BY 2" {1 2 3}
1002.1  "SELECT DISTINCT 1, 2, 3 GROUP BY 2 HAVING count(*)=1" {1 2 3}
1002.2  "SELECT DISTINCT 1, 2, 3 GROUP BY 2 HAVING count(*)>1" {}

2001.1  "SELECT ALL 1, 2, 3 GROUP BY 2" {1 2 3}
2002.1  "SELECT ALL 1, 2, 3 GROUP BY 2 HAVING count(*)=1" {1 2 3}
2002.2  "SELECT ALL 1, 2, 3 GROUP BY 2 HAVING count(*)>1" {}

0101.1  "SELECT count(*), max(a) FROM t1 GROUP BY b" {1 a 1 c 1 b}
0102.1  "SELECT count(*), max(a) FROM t1 GROUP BY b HAVING count(*)=1" {
  1 a 1 c 1 b
}
0102.2  "SELECT count(*), max(a) FROM t1 GROUP BY b HAVING count(*)=2" { }

1101.1  "SELECT DISTINCT count(*), max(a) FROM t1 GROUP BY b" {1 a 1 c 1 b}
1102.1  "SELECT DISTINCT count(*), max(a) FROM t1
        GROUP BY b HAVING count(*)=1" {
  1 a 1 c 1 b
}
1102.2  "SELECT DISTINCT count(*), max(a) FROM t1
        GROUP BY b HAVING count(*)=2" {
}

2101.1  "SELECT ALL count(*), max(a) FROM t1 GROUP BY b" {1 a 1 c 1 b}
2102.1  "SELECT ALL count(*), max(a) FROM t1
        GROUP BY b HAVING count(*)=1" {
```

```
  1 a 1 c 1 b
}
2102.2  "SELECT ALL count(*), max(a) FROM t1
        GROUP BY b HAVING count(*)=2" {
}

0011.1  "SELECT 1, 2, 3 WHERE 1 GROUP BY 2" {1 2 3}
0012.1  "SELECT 1, 2, 3 WHERE 0 GROUP BY 2 HAVING count(*)=1" {}
0012.2  "SELECT 1, 2, 3 WHERE 0 GROUP BY 2 HAVING count(*)>1" {}

1011.1  "SELECT DISTINCT 1, 2, 3 WHERE 0 GROUP BY 2" {}
1012.1  "SELECT DISTINCT 1, 2, 3 WHERE 1 GROUP BY 2 HAVING count(*)=1"
       {1 2 3}
1012.2  "SELECT DISTINCT 1, 2, 3 WHERE NULL GROUP BY 2 HAVING count(*)>1" {}

2011.1  "SELECT ALL 1, 2, 3 WHERE 1 GROUP BY 2" {1 2 3}
2012.1  "SELECT ALL 1, 2, 3 WHERE 0 GROUP BY 2 HAVING count(*)=1" {}
2012.2  "SELECT ALL 1, 2, 3 WHERE 'abc' GROUP BY 2 HAVING count(*)>1" {}

0111.1  "SELECT count(*), max(a) FROM t1 WHERE a='a' GROUP BY b" {1 a}
0112.1  "SELECT count(*), max(a) FROM t1
        WHERE a='c' GROUP BY b HAVING count(*)=1" {1 c}
0112.2  "SELECT count(*), max(a) FROM t1
        WHERE 0 GROUP BY b HAVING count(*)=2" { }
1111.1  "SELECT DISTINCT count(*), max(a) FROM t1 WHERE a<'c' GROUP BY b"
       {1 a 1 b}
1112.1  "SELECT DISTINCT count(*), max(a) FROM t1 WHERE a>'a'
        GROUP BY b HAVING count(*)=1" {
  1 c 1 b
}
1112.2  "SELECT DISTINCT count(*), max(a) FROM t1 WHERE 0
        GROUP BY b HAVING count(*)=2" {
}

2111.1  "SELECT ALL count(*), max(a) FROM t1 WHERE b>'one' GROUP BY b"
       {1 c 1 b}
2112.1  "SELECT ALL count(*), max(a) FROM t1 WHERE a!='b'
        GROUP BY b HAVING count(*)=1" {
  1 a 1 c
}
2112.2  "SELECT ALL count(*), max(a) FROM t1
        WHERE 0 GROUP BY b HAVING count(*)=2" { }
}


# EVIDENCE-OF: R-41378-26734 -- syntax diagram result-column
#
do_select_tests e_select-0.3 {
```

```
 1  "SELECT * FROM t1" {a one b two c three}
 2  "SELECT t1.* FROM t1" {a one b two c three}
 3  "SELECT 'x'||a||'x' FROM t1" {xax xbx xcx}
 4  "SELECT 'x'||a||'x' alias FROM t1" {xax xbx xcx}
 5  "SELECT 'x'||a||'x' AS alias FROM t1" {xax xbx xcx}
}

# EVIDENCE-OF: R-43129-35648 -- syntax diagram join-source
#
# EVIDENCE-OF: R-36683-37460 -- syntax diagram join-op
#
do_select_tests e_select-0.4 {
 1  "SELECT t1.rowid FROM t1" {1 2 3}
 2  "SELECT t1.rowid FROM t1,t2" {1 1 1 2 2 2 3 3 3}
 3  "SELECT t1.rowid FROM t1,t2,t3" {1 1 1 1 1 1 2 2 2 2 2 2 3 3 3 3 3 3}

 4  "SELECT t1.rowid FROM t1" {1 2 3}
 5  "SELECT t1.rowid FROM t1 JOIN t2" {1 1 1 2 2 2 3 3 3}
 6  "SELECT t1.rowid FROM t1 JOIN t2 JOIN t3"
    {1 1 1 1 1 1 2 2 2 2 2 2 3 3 3 3 3 3}

 7  "SELECT t1.rowid FROM t1 NATURAL JOIN t3" {1 2}
 8  "SELECT t1.rowid FROM t1 NATURAL LEFT OUTER JOIN t3" {1 2 3}
 9  "SELECT t1.rowid FROM t1 NATURAL LEFT JOIN t3" {1 2 3}
 10 "SELECT t1.rowid FROM t1 NATURAL INNER JOIN t3" {1 2}
 11 "SELECT t1.rowid FROM t1 NATURAL CROSS JOIN t3" {1 2}

 12 "SELECT t1.rowid FROM t1 JOIN t3" {1 1 2 2 3 3}
 13 "SELECT t1.rowid FROM t1 LEFT OUTER JOIN t3" {1 1 2 2 3 3}
 14 "SELECT t1.rowid FROM t1 LEFT JOIN t3" {1 1 2 2 3 3}
 15 "SELECT t1.rowid FROM t1 INNER JOIN t3" {1 1 2 2 3 3}
 16 "SELECT t1.rowid FROM t1 CROSS JOIN t3" {1 1 2 2 3 3}
}

# EVIDENCE-OF: R-28308-37813 -- syntax diagram compound-operator
#
do_select_tests e_select-0.5 {
 1  "SELECT rowid FROM t1 UNION ALL SELECT rowid+2 FROM t4" {1 2 3 3 4}
 2  "SELECT rowid FROM t1 UNION     SELECT rowid+2 FROM t4" {1 2 3 4}
 3  "SELECT rowid FROM t1 INTERSECT SELECT rowid+2 FROM t4" {3}
 4  "SELECT rowid FROM t1 EXCEPT    SELECT rowid+2 FROM t4" {1 2}
}

# EVIDENCE-OF: R-06480-34950 -- syntax diagram ordering-term
#
do_select_tests e_select-0.6 {
 1  "SELECT b||a FROM t1 ORDER BY b||a"                {onea threec twob}
 2  "SELECT b||a FROM t1 ORDER BY (b||a) COLLATE nocase" {onea threec twob}
```

```
 3  "SELECT b||a FROM t1 ORDER BY (b||a) ASC"           {onea threec twob}
 4  "SELECT b||a FROM t1 ORDER BY (b||a) DESC"          {twob threec onea}
}

# EVIDENCE-OF: R-23926-36668 -- syntax diagram select-stmt
#
do_select_tests e_select-0.7 {
 1  "SELECT * FROM t1" {a one b two c three}
 2  "SELECT * FROM t1 ORDER BY b" {a one c three b two}
 3  "SELECT * FROM t1 ORDER BY b, a" {a one c three b two}

 4  "SELECT * FROM t1 LIMIT 10" {a one b two c three}
 5  "SELECT * FROM t1 LIMIT 10 OFFSET 5" {}
 6  "SELECT * FROM t1 LIMIT 10, 5" {}

 7  "SELECT * FROM t1 ORDER BY a LIMIT 10" {a one b two c three}
 8  "SELECT * FROM t1 ORDER BY b LIMIT 10 OFFSET 5" {}
 9  "SELECT * FROM t1 ORDER BY a,b LIMIT 10, 5" {}

 10  "SELECT * FROM t1 UNION SELECT b, a FROM t1"
   {a one b two c three one a three c two b}
 11  "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY b"
   {one a two b three c a one c three b two}
 12  "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY b, a"
   {one a two b three c a one c three b two}
 13  "SELECT * FROM t1 UNION SELECT b, a FROM t1 LIMIT 10"
   {a one b two c three one a three c two b}
 14  "SELECT * FROM t1 UNION SELECT b, a FROM t1 LIMIT 10 OFFSET 5"
   {two b}
 15  "SELECT * FROM t1 UNION SELECT b, a FROM t1 LIMIT 10, 5"
   {}
 16  "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY a LIMIT 10"
   {a one b two c three one a three c two b}
 17  "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY b LIMIT 10 OFFSET 5"
   {b two}
 18  "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY a,b LIMIT 10, 5"
   {}
}

#-------------------------------------------------------------------------
# The following tests focus on FROM clause (join) processing.
#

# EVIDENCE-OF: R-16074-54196 If the FROM clause is omitted from a simple
# SELECT statement, then the input data is implicitly a single row zero
# columns wide
#
do_select_tests e_select-1.1 {
```

```
 1 "SELECT 'abc'"           {abc}
 2 "SELECT 'abc' WHERE NULL" {}
 3 "SELECT NULL"            {{}}
 4 "SELECT count(*)"        {1}
 5 "SELECT count(*) WHERE 0" {0}
 6 "SELECT count(*) WHERE 1" {1}
}

# EVIDENCE-OF: R-48114-33255 If there is only a single table in the
# join-source following the FROM clause, then the input data used by the
# SELECT statement is the contents of the named table.
#
#   The results of the SELECT queries suggest that they are operating on the
#   contents of the table 'xx'.
#
do_execsql_test e_select-1.2.0 {
 CREATE TABLE xx(x, y);
 INSERT INTO xx VALUES('IiJlsIPepMuAhU', X'10B00B897A15BAA02E3F98DCE8F2');
 INSERT INTO xx VALUES(NULL, -16.87);
 INSERT INTO xx VALUES(-17.89, 'linguistically');
} {}
do_select_tests e_select-1.2 {
 1  "SELECT quote(x), quote(y) FROM xx" {
   'IiJlsIPepMuAhU' X'10B00B897A15BAA02E3F98DCE8F2'
   NULL            -16.87
   -17.89          'linguistically'
 }

 2  "SELECT count(*), count(x), count(y) FROM xx" {3 2 3}
 3  "SELECT sum(x), sum(y) FROM xx"               {-17.89 -16.87}
}

# EVIDENCE-OF: R-23593-12456 If there is more than one table specified
# as part of the join-source following the FROM keyword, then the
# contents of each named table are joined into a single dataset for the
# simple SELECT statement to operate on.
#
#   There are more detailed tests for subsequent requirements that add
#   more detail to this idea. We just add a single test that shows that
#   data is coming from each of the three tables following the FROM clause
#   here to show that the statement, vague as it is, is not incorrect.
#
do_select_tests e_select-1.3 {
 1 "SELECT * FROM t1, t2, t3" {
    a one a I a 1 a one a I b 2 a one b II a 1
    a one b II b 2 a one c III a 1 a one c III b 2
    b two a I a 1 b two a I b 2 b two b II a 1
    b two b II b 2 b two c III a 1 b two c III b 2
```

```
    c three a I a 1 c three a I b 2 c three b II a 1
    c three b II b 2 c three c III a 1 c three c III b 2
 }
}

#
# The following block of tests - e_select-1.4.* - test that the description
# of cartesian joins in the SELECT documentation is consistent with SQLite.
# In doing so, we test the following three requirements as a side-effect:
#
# EVIDENCE-OF: R-46122-14930 If the join-op is "CROSS JOIN", "INNER
# JOIN", "JOIN" or a comma (",") and there is no ON or USING clause,
# then the result of the join is simply the cartesian product of the
# left and right-hand datasets.
#
#    The tests are built on this assertion. Really, they test that the output
#    of a CROSS JOIN, JOIN, INNER JOIN or "," join matches the expected result
#    of calculating the cartesian product of the left and right-hand datasets.
#
# EVIDENCE-OF: R-46256-57243 There is no difference between the "INNER
# JOIN", "JOIN" and "," join operators.
#
# EVIDENCE-OF: R-07544-24155 The "CROSS JOIN" join operator produces the
# same data as the "INNER JOIN", "JOIN" and "," operators
#
#    All tests are run 4 times, with the only difference in each run being
#    which of the 4 equivalent cartesian product join operators are used.
#    Since the output data is the same in all cases, we consider that this
#    qualifies as testing the two statements above.
#
do_execsql_test e_select-1.4.0 {
 CREATE TABLE x1(a, b);
 CREATE TABLE x2(c, d, e);
 CREATE TABLE x3(f, g, h, i);

 -- x1: 3 rows, 2 columns
 INSERT INTO x1 VALUES(24, 'converging');
 INSERT INTO x1 VALUES(NULL, X'CB71');
 INSERT INTO x1 VALUES('blonds', 'proprietary');

 -- x2: 2 rows, 3 columns
 INSERT INTO x2 VALUES(-60.06, NULL, NULL);
 INSERT INTO x2 VALUES(-58, NULL, 1.21);

 -- x3: 5 rows, 4 columns
 INSERT INTO x3 VALUES(-39.24, NULL, 'encompass', -1);
 INSERT INTO x3 VALUES('presenting', 51, 'reformation', 'dignified');
 INSERT INTO x3 VALUES('conducting', -87.24, 37.56, NULL);
```

```
 INSERT INTO x3 VALUES('coldest', -96, 'dramatists', 82.3);
 INSERT INTO x3 VALUES('alerting', NULL, -93.79, NULL);
} {}

# EVIDENCE-OF: R-59089-25828 The columns of the cartesian product
# dataset are, in order, all the columns of the left-hand dataset
# followed by all the columns of the right-hand dataset.
#
do_join_test e_select-1.4.1.1 {
 SELECT * FROM x1 %JOIN% x2 LIMIT 1
} [concat {24 converging} {-60.06 {} {}}]

do_join_test e_select-1.4.1.2 {
 SELECT * FROM x2 %JOIN% x1 LIMIT 1
} [concat {-60.06 {} {}} {24 converging}]

do_join_test e_select-1.4.1.3 {
 SELECT * FROM x3 %JOIN% x2 LIMIT 1
} [concat {-39.24 {} encompass -1} {-60.06 {} {}}]

do_join_test e_select-1.4.1.4 {
 SELECT * FROM x2 %JOIN% x3 LIMIT 1
} [concat {-60.06 {} {}} {-39.24 {} encompass -1}]

# EVIDENCE-OF: R-44414-54710 There is a row in the cartesian product
# dataset formed by combining each unique combination of a row from the
# left-hand and right-hand datasets.
#
do_join_test e_select-1.4.2.1 {
 SELECT * FROM x2 %JOIN% x3
} [list -60.06 {} {}      -39.24 {} encompass -1                \
      -60.06 {} {}      presenting 51 reformation dignified    \
      -60.06 {} {}      conducting -87.24 37.56 {}             \
      -60.06 {} {}      coldest -96 dramatists 82.3            \
      -60.06 {} {}      alerting {} -93.79 {}                  \
      -58 {} 1.21       -39.24 {} encompass -1                 \
      -58 {} 1.21       presenting 51 reformation dignified    \
      -58 {} 1.21       conducting -87.24 37.56 {}             \
      -58 {} 1.21       coldest -96 dramatists 82.3            \
      -58 {} 1.21       alerting {} -93.79 {}                  \
]
# TODO: Come back and add a few more like the above.

# EVIDENCE-OF: R-20659-43267 In other words, if the left-hand dataset
# consists of Nlhs rows of Mlhs columns, and the right-hand dataset of
# Nrhs rows of Mrhs columns, then the cartesian product is a dataset of
# Nlhs.Nrhs rows, each containing Mlhs+Mrhs columns.
#
```

```
# x1, x2    (Nlhs=3, Nrhs=2)   (Mlhs=2, Mrhs=3)
do_join_test e_select-1.4.3.1 {
 SELECT count(*) FROM x1 %JOIN% x2
} [expr 3*2]
do_test e_select-1.4.3.2 {
 expr {[llength [execsql {SELECT * FROM x1, x2}]] / 6}
} [expr 2+3]

# x2, x3    (Nlhs=2, Nrhs=5)   (Mlhs=3, Mrhs=4)
do_join_test e_select-1.4.3.3 {
 SELECT count(*) FROM x2 %JOIN% x3
} [expr 2*5]
do_test e_select-1.4.3.4 {
 expr {[llength [execsql {SELECT * FROM x2 JOIN x3}]] / 10}
} [expr 3+4]

# x3, x1    (Nlhs=5, Nrhs=3)   (Mlhs=4, Mrhs=2)
do_join_test e_select-1.4.3.5 {
 SELECT count(*) FROM x3 %JOIN% x1
} [expr 5*3]
do_test e_select-1.4.3.6 {
 expr {[llength [execsql {SELECT * FROM x3 CROSS JOIN x1}]] / 15}
} [expr 4+2]

# x3, x3    (Nlhs=5, Nrhs=5)   (Mlhs=4, Mrhs=4)
do_join_test e_select-1.4.3.7 {
 SELECT count(*) FROM x3 %JOIN% x3
} [expr 5*5]
do_test e_select-1.4.3.8 {
 expr {[llength [execsql {SELECT * FROM x3 INNER JOIN x3 AS x4}]] / 25}
} [expr 4+4]

# Some extra cartesian product tests using tables t1 and t2.
#
do_execsql_test e_select-1.4.4.1 { SELECT * FROM t1, t2 } $t1_cross_t2
do_execsql_test e_select-1.4.4.2 { SELECT * FROM t1 AS x, t1 AS y} $t1_cross_t1

do_select_tests e_select-1.4.5 [list                              \
  1 { SELECT * FROM t1 CROSS JOIN t2 }          $t1_cross_t2       \
  2 { SELECT * FROM t1 AS y CROSS JOIN t1 AS x } $t1_cross_t1      \
  3 { SELECT * FROM t1 INNER JOIN t2 }          $t1_cross_t2       \
  4 { SELECT * FROM t1 AS y INNER JOIN t1 AS x } $t1_cross_t1      \
]



# EVIDENCE-OF: R-22775-56496 If there is an ON clause specified, then
# the ON expression is evaluated for each row of the cartesian product
# as a boolean expression. All rows for which the expression evaluates
```

```
# to false are excluded from the dataset.
#
foreach {tn select res} [list                                    \
  1 { SELECT * FROM t1 %JOIN% t2 ON (1) }       $t1_cross_t2           \
  2 { SELECT * FROM t1 %JOIN% t2 ON (0) }       [list]                 \
  3 { SELECT * FROM t1 %JOIN% t2 ON (NULL) }    [list]                 \
  4 { SELECT * FROM t1 %JOIN% t2 ON ('abc') }   [list]                 \
  5 { SELECT * FROM t1 %JOIN% t2 ON ('1ab') }   $t1_cross_t2           \
  6 { SELECT * FROM t1 %JOIN% t2 ON (0.9) }     $t1_cross_t2           \
  7 { SELECT * FROM t1 %JOIN% t2 ON ('0.9') }   $t1_cross_t2           \
  8 { SELECT * FROM t1 %JOIN% t2 ON (0.0) }     [list]                 \
                                                \
  9 { SELECT t1.b, t2.b FROM t1 %JOIN% t2 ON (t1.a = t2.a) }           \
    {one I two II three III}                                \
 10 { SELECT t1.b, t2.b FROM t1 %JOIN% t2 ON (t1.a = 'a') }            \
    {one I one II one III}                                  \
 11 { SELECT t1.b, t2.b
      FROM t1 %JOIN% t2 ON (CASE WHEN t1.a = 'a' THEN NULL ELSE 1 END) } \
    {two I two II two III three I three II three III}                \
] {
 do_join_test e_select-1.3.$tn $select $res
}

# EVIDENCE-OF: R-63358-54862 If there is a USING clause specified as
# part of the join-constraint, then each of the column names specified
# must exist in the datasets to both the left and right of the join-op.
#
do_select_tests e_select-1.4 -error {
 cannot join using column %s - column not present in both tables
} {
 1 { SELECT * FROM t1, t3 USING (b) }   "b"
 2 { SELECT * FROM t3, t1 USING (c) }   "c"
 3 { SELECT * FROM t3, (SELECT a AS b, b AS c FROM t1) USING (a) }   "a"
}

# EVIDENCE-OF: R-55987-04584 For each pair of namesake columns, the
# expression "lhs.X = rhs.X" is evaluated for each row of the cartesian
# product as a boolean expression. All rows for which one or more of the
# expressions evaluates to false are excluded from the result set.
#
do_select_tests e_select-1.5 {
 1 { SELECT * FROM t1, t3 USING (a)   }  {a one 1 b two 2}
 2 { SELECT * FROM t3, t4 USING (a,c) }  {b 2}
}

# EVIDENCE-OF: R-54046-48600 When comparing values as a result of a
# USING clause, the normal rules for handling affinities, collation
# sequences and NULL values in comparisons apply.
```

```
#
# EVIDENCE-OF: R-35466-18578 The column from the dataset on the
# left-hand side of the join operator is considered to be on the
# left-hand side of the comparison operator (=) for the purposes of
# collation sequence and affinity precedence.
#
do_execsql_test e_select-1.6.0 {
 CREATE TABLE t5(a COLLATE nocase, b COLLATE binary);
 INSERT INTO t5 VALUES('AA', 'cc');
 INSERT INTO t5 VALUES('BB', 'dd');
 INSERT INTO t5 VALUES(NULL, NULL);
 CREATE TABLE t6(a COLLATE binary, b COLLATE nocase);
 INSERT INTO t6 VALUES('aa', 'cc');
 INSERT INTO t6 VALUES('bb', 'DD');
 INSERT INTO t6 VALUES(NULL, NULL);
} {}
foreach {tn select res} {
 1 { SELECT * FROM t5 %JOIN% t6 USING (a) } {AA cc cc BB dd DD}
 2 { SELECT * FROM t6 %JOIN% t5 USING (a) } {}
 3 { SELECT * FROM (SELECT a COLLATE nocase, b FROM t6) %JOIN% t5 USING (a) }
   {aa cc cc bb DD dd}
 4 { SELECT * FROM t5 %JOIN% t6 USING (a,b) } {AA cc}
 5 { SELECT * FROM t6 %JOIN% t5 USING (a,b) } {}
} {
 do_join_test e_select-1.6.$tn $select $res
}

# EVIDENCE-OF: R-57047-10461 For each pair of columns identified by a
# USING clause, the column from the right-hand dataset is omitted from
# the joined dataset.
#
# EVIDENCE-OF: R-56132-15700 This is the only difference between a USING
# clause and its equivalent ON constraint.
#
foreach {tn select res} {
 1a { SELECT * FROM t1 %JOIN% t2 USING (a)      }
    {a one I b two II c three III}
 1b { SELECT * FROM t1 %JOIN% t2 ON (t1.a=t2.a) }
    {a one a I b two b II c three c III}

 2a { SELECT * FROM t3 %JOIN% t4 USING (a)      }
    {a 1 {} b 2 2}
 2b { SELECT * FROM t3 %JOIN% t4 ON (t3.a=t4.a) }
    {a 1 a {} b 2 b 2}

 3a { SELECT * FROM t3 %JOIN% t4 USING (a,c)                } {b 2}
 3b { SELECT * FROM t3 %JOIN% t4 ON (t3.a=t4.a AND t3.c=t4.c) } {b 2 b 2}
```

```
 4a { SELECT * FROM (SELECT a COLLATE nocase, b FROM t6) AS x
      %JOIN% t5 USING (a) }
    {aa cc cc bb DD dd}
 4b { SELECT * FROM (SELECT a COLLATE nocase, b FROM t6) AS x
      %JOIN% t5 ON (x.a=t5.a) }
    {aa cc AA cc bb DD BB dd}
} {
 do_join_test e_select-1.7.$tn $select $res
}

# EVIDENCE-OF: R-41434-12448 If the join-op is a "LEFT JOIN" or "LEFT
# OUTER JOIN", then after the ON or USING filtering clauses have been
# applied, an extra row is added to the output for each row in the
# original left-hand input dataset that corresponds to no rows at all in
# the composite dataset (if any).
#
do_execsql_test e_select-1.8.0 {
 CREATE TABLE t7(a, b, c);
 CREATE TABLE t8(a, d, e);

 INSERT INTO t7 VALUES('x', 'ex',  24);
 INSERT INTO t7 VALUES('y', 'why', 25);

 INSERT INTO t8 VALUES('x', 'abc', 24);
 INSERT INTO t8 VALUES('z', 'ghi', 26);
} {}

do_select_tests e_select-1.8 {
 1a "SELECT count(*) FROM t7 JOIN t8 ON (t7.a=t8.a)" {1}
 1b "SELECT count(*) FROM t7 LEFT JOIN t8 ON (t7.a=t8.a)" {2}
 2a "SELECT count(*) FROM t7 JOIN t8 USING (a)" {1}
 2b "SELECT count(*) FROM t7 LEFT JOIN t8 USING (a)" {2}
}


# EVIDENCE-OF: R-15607-52988 The added rows contain NULL values in the
# columns that would normally contain values copied from the right-hand
# input dataset.
#
do_select_tests e_select-1.9 {
 1a "SELECT * FROM t7 JOIN t8 ON (t7.a=t8.a)" {x ex 24 x abc 24}
 1b "SELECT * FROM t7 LEFT JOIN t8 ON (t7.a=t8.a)"
    {x ex 24 x abc 24 y why 25 {} {} {}}
 2a "SELECT * FROM t7 JOIN t8 USING (a)" {x ex 24 abc 24}
 2b "SELECT * FROM t7 LEFT JOIN t8 USING (a)" {x ex 24 abc 24 y why 25 {} {}}
}

# EVIDENCE-OF: R-01809-52134 If the NATURAL keyword is added to any of
```

```
# the join-ops, then an implicit USING clause is added to the
# join-constraints. The implicit USING clause contains each of the
# column names that appear in both the left and right-hand input
# datasets.
#
do_select_tests e_select-1-10 {
 1a "SELECT * FROM t7 JOIN t8 USING (a)"        {x ex 24 abc 24}
 1b "SELECT * FROM t7 NATURAL JOIN t8"          {x ex 24 abc 24}

 2a "SELECT * FROM t8 JOIN t7 USING (a)"        {x abc 24 ex 24}
 2b "SELECT * FROM t8 NATURAL JOIN t7"          {x abc 24 ex 24}

 3a "SELECT * FROM t7 LEFT JOIN t8 USING (a)"   {x ex 24 abc 24 y why 25 {} {}}
 3b "SELECT * FROM t7 NATURAL LEFT JOIN t8"     {x ex 24 abc 24 y why 25 {} {}}

 4a "SELECT * FROM t8 LEFT JOIN t7 USING (a)"   {x abc 24 ex 24 z ghi 26 {} {}}
 4b "SELECT * FROM t8 NATURAL LEFT JOIN t7"     {x abc 24 ex 24 z ghi 26 {} {}}

 5a "SELECT * FROM t3 JOIN t4 USING (a,c)"      {b 2}
 5b "SELECT * FROM t3 NATURAL JOIN t4"          {b 2}

 6a "SELECT * FROM t3 LEFT JOIN t4 USING (a,c)" {a 1 b 2}
 6b "SELECT * FROM t3 NATURAL LEFT JOIN t4"     {a 1 b 2}
}

# EVIDENCE-OF: R-49566-01570 If the left and right-hand input datasets
# feature no common column names, then the NATURAL keyword has no effect
# on the results of the join.
#
do_execsql_test e_select-1.11.0 {
 CREATE TABLE t10(x, y);
 INSERT INTO t10 VALUES(1, 'true');
 INSERT INTO t10 VALUES(0, 'false');
} {}
do_select_tests e_select-1-11 {
 1a "SELECT a, x FROM t1 CROSS JOIN t10" {a 1 a 0 b 1 b 0 c 1 c 0}
 1b "SELECT a, x FROM t1 NATURAL CROSS JOIN t10" {a 1 a 0 b 1 b 0 c 1 c 0}
}

# EVIDENCE-OF: R-39625-59133 A USING or ON clause may not be added to a
# join that specifies the NATURAL keyword.
#
foreach {tn sql} {
 1 {SELECT * FROM t1 NATURAL LEFT JOIN t2 USING (a)}
 2 {SELECT * FROM t1 NATURAL LEFT JOIN t2 ON (t1.a=t2.a)}
 3 {SELECT * FROM t1 NATURAL LEFT JOIN t2 ON (45)}
} {
 do_catchsql_test e_select-1.12.$tn "
```

```
  $sql
 " {1 {a NATURAL join may not have an ON or USING clause}}
}

#-------------------------------------------------------------------------
# The next block of tests - e_select-3.* - concentrate on verifying
# statements made regarding WHERE clause processing.
#
drop_all_tables
do_execsql_test e_select-3.0 {
 CREATE TABLE x1(k, x, y, z);
 INSERT INTO x1 VALUES(1, 'relinquished', 'aphasia', 78.43);
 INSERT INTO x1 VALUES(2, X'A8E8D66F',    X'07CF',   -81);
 INSERT INTO x1 VALUES(3, -22,            -27.57,    NULL);
 INSERT INTO x1 VALUES(4, NULL,           'bygone',  'picky');
 INSERT INTO x1 VALUES(5, NULL,           96.28,     NULL);
 INSERT INTO x1 VALUES(6, 0,              1,         2);

 CREATE TABLE x2(k, x, y2);
 INSERT INTO x2 VALUES(1, 50, X'B82838');
 INSERT INTO x2 VALUES(5, 84.79, 65.88);
 INSERT INTO x2 VALUES(3, -22, X'0E1BE452A393');
 INSERT INTO x2 VALUES(7, 'mistrusted', 'standardized');
} {}

# EVIDENCE-OF: R-06999-14330 If a WHERE clause is specified, the WHERE
# expression is evaluated for each row in the input data as a boolean
# expression. All rows for which the WHERE clause expression evaluates
# to false are excluded from the dataset before continuing.
#
do_execsql_test e_select-3.1.1 { SELECT k FROM x1 WHERE x }         {3}
do_execsql_test e_select-3.1.2 { SELECT k FROM x1 WHERE y }         {3 5 6}
do_execsql_test e_select-3.1.3 { SELECT k FROM x1 WHERE z }         {1 2 6}
do_execsql_test e_select-3.1.4 { SELECT k FROM x1 WHERE '1'||z    } {1 2 4 6}
do_execsql_test e_select-3.1.5 { SELECT k FROM x1 WHERE x IS NULL } {4 5}
do_execsql_test e_select-3.1.6 { SELECT k FROM x1 WHERE z - 78.43 } {2 4 6}

do_execsql_test e_select-3.2.1a {
 SELECT k FROM x1 LEFT JOIN x2 USING(k)
} {1 2 3 4 5 6}
do_execsql_test e_select-3.2.1b {
 SELECT k FROM x1 LEFT JOIN x2 USING(k) WHERE x2.k
} {1 3 5}
do_execsql_test e_select-3.2.2 {
 SELECT k FROM x1 LEFT JOIN x2 USING(k) WHERE x2.k IS NULL
} {2 4 6}

do_execsql_test e_select-3.2.3 {
```

```
 SELECT k FROM x1 NATURAL JOIN x2 WHERE x2.k
} {3}
do_execsql_test e_select-3.2.4 {
 SELECT k FROM x1 NATURAL JOIN x2 WHERE x2.k-3
} {}

#-------------------------------------------------------------------------
# Tests below this point are focused on verifying the testable statements
# related to caculating the result rows of a simple SELECT statement.
#

drop_all_tables
do_execsql_test e_select-4.0 {
 CREATE TABLE z1(a, b, c);
 CREATE TABLE z2(d, e);
 CREATE TABLE z3(a, b);

 INSERT INTO z1 VALUES(51.65, -59.58, 'belfries');
 INSERT INTO z1 VALUES(-5, NULL, 75);
 INSERT INTO z1 VALUES(-2.2, -23.18, 'suiters');
 INSERT INTO z1 VALUES(NULL, 67, 'quartets');
 INSERT INTO z1 VALUES(-1.04, -32.3, 'aspen');
 INSERT INTO z1 VALUES(63, 'born', -26);

 INSERT INTO z2 VALUES(NULL, 21);
 INSERT INTO z2 VALUES(36, 6);

 INSERT INTO z3 VALUES('subsistence', 'gauze');
 INSERT INTO z3 VALUES(49.17, -67);
} {}

# EVIDENCE-OF: R-36327-17224 If a result expression is the special
# expression "*" then all columns in the input data are substituted for
# that one expression.
#
# EVIDENCE-OF: R-43693-30522 If the expression is the alias of a table
# or subquery in the FROM clause followed by ".*" then all columns from
# the named table or subquery are substituted for the single expression.
#
do_select_tests e_select-4.1 {
 1  "SELECT * FROM z1 LIMIT 1"            {51.65 -59.58 belfries}
 2  "SELECT * FROM z1,z2 LIMIT 1"         {51.65 -59.58 belfries {} 21}
 3  "SELECT z1.* FROM z1,z2 LIMIT 1"      {51.65 -59.58 belfries}
 4  "SELECT z2.* FROM z1,z2 LIMIT 1"      {{} 21}
 5  "SELECT z2.*, z1.* FROM z1,z2 LIMIT 1" {{} 21 51.65 -59.58 belfries}

 6  "SELECT count(*), * FROM z1"          {6 63 born -26}
 7  "SELECT max(a), * FROM z1"            {63 63 born -26}
```

```
 8  "SELECT *, min(a) FROM z1"            {-5 {} 75 -5}

 9  "SELECT *,* FROM z1,z2 LIMIT 1" {
   51.65 -59.58 belfries {} 21 51.65 -59.58 belfries {} 21
 }
 10 "SELECT z1.*,z1.* FROM z2,z1 LIMIT 1" {
   51.65 -59.58 belfries 51.65 -59.58 belfries
 }
}

# EVIDENCE-OF: R-61869-22578 It is an error to use a "*" or "alias.*"
# expression in any context other than than a result expression list.
#
# EVIDENCE-OF: R-44324-41166 It is also an error to use a "*" or
# "alias.*" expression in a simple SELECT query that does not have a
# FROM clause.
#
foreach {tn select err} {
 1.1  "SELECT a, b, c FROM z1 WHERE *"    {near "*": syntax error}
 1.2  "SELECT a, b, c FROM z1 GROUP BY *" {near "*": syntax error}
 1.3  "SELECT 1 + * FROM z1"              {near "*": syntax error}
 1.4  "SELECT * + 1 FROM z1"              {near "+": syntax error}

 2.1 "SELECT *" {no tables specified}
 2.2 "SELECT * WHERE 1" {no tables specified}
 2.3 "SELECT * WHERE 0" {no tables specified}
 2.4 "SELECT count(*), *" {no tables specified}
} {
 do_catchsql_test e_select-4.2.$tn $select [list 1 $err]
}

# EVIDENCE-OF: R-08669-22397 The number of columns in the rows returned
# by a simple SELECT statement is equal to the number of expressions in
# the result expression list after substitution of * and alias.*
# expressions.
#
foreach {tn select nCol} {
 1   "SELECT * FROM z1"   3
 2   "SELECT * FROM z1 NATURAL JOIN z3"           3
 3   "SELECT z1.* FROM z1 NATURAL JOIN z3"        3
 4   "SELECT z3.* FROM z1 NATURAL JOIN z3"        2
 5   "SELECT z1.*, z3.* FROM z1 NATURAL JOIN z3"   5
 6   "SELECT 1, 2, z1.* FROM z1"                  5
 7   "SELECT a, *, b, c FROM z1"                  6
} {
 set ::stmt [sqlite3_prepare_v2 db $select -1 DUMMY]
 do_test e_select-4.3.$tn { sqlite3_column_count $::stmt } $nCol
 sqlite3_finalize $::stmt
```

```
}


# In lang_select.html, a non-aggregate query is defined as any simple SELECT
# that has no GROUP BY clause and no aggregate expressions in the result
# expression list. Other queries are aggregate queries. Test cases
# e_select-4.4.* through e_select-4.12.*, inclusive, which test the part of
# simple SELECT that is different for aggregate and non-aggregate queries
# verify (in a way) that these definitions are consistent:
#
# EVIDENCE-OF: R-20637-43463 A simple SELECT statement is an aggregate
# query if it contains either a GROUP BY clause or one or more aggregate
# functions in the result-set.
#
# EVIDENCE-OF: R-23155-55597 Otherwise, if a simple SELECT contains no
# aggregate functions or a GROUP BY clause, it is a non-aggregate query.
#

# EVIDENCE-OF: R-44050-47362 If the SELECT statement is a non-aggregate
# query, then each expression in the result expression list is evaluated
# for each row in the dataset filtered by the WHERE clause.
#
do_select_tests e_select-4.4 {
 1 "SELECT a, b FROM z1"
   {51.65 -59.58 -5 {} -2.2 -23.18 {} 67 -1.04 -32.3 63 born}

 2 "SELECT a IS NULL, b+1, * FROM z1" {
      0 -58.58   51.65 -59.58 belfries
      0 {}       -5 {} 75
      0 -22.18   -2.2 -23.18 suiters
      1 68       {} 67 quartets
      0 -31.3    -1.04 -32.3 aspen
      0 1        63 born -26
 }

 3 "SELECT 32*32, d||e FROM z2" {1024 {} 1024 366}
}


# Test cases e_select-4.5.* and e_select-4.6.* together show that:
#
# EVIDENCE-OF: R-51988-01124 The single row of result-set data created
# by evaluating the aggregate and non-aggregate expressions in the
# result-set forms the result of an aggregate query without a GROUP BY
# clause.
#
```

```
# EVIDENCE-OF: R-57629-25253 If the SELECT statement is an aggregate
# query without a GROUP BY clause, then each aggregate expression in the
# result-set is evaluated once across the entire dataset.
#
do_select_tests e_select-4.5 {
 1 "SELECT count(a), max(a), count(b), max(b) FROM z1"      {5 63 5 born}
 2 "SELECT count(*), max(1)"                                {1 1}

 3 "SELECT sum(b+1) FROM z1 NATURAL LEFT JOIN z3"           {-43.06}
 4 "SELECT sum(b+2) FROM z1 NATURAL LEFT JOIN z3"           {-38.06}
 5 "SELECT sum(b IS NOT NULL) FROM z1 NATURAL LEFT JOIN z3" {5}
}

# EVIDENCE-OF: R-26684-40576 Each non-aggregate expression in the
# result-set is evaluated once for an arbitrarily selected row of the
# dataset.
#
# EVIDENCE-OF: R-27994-60376 The same arbitrarily selected row is used
# for each non-aggregate expression.
#
#   Note: The results of many of the queries in this block of tests are
#   technically undefined, as the documentation does not specify which row
#   SQLite will arbitrarily select to use for the evaluation of the
#   non-aggregate expressions.
#
drop_all_tables
do_execsql_test e_select-4.6.0 {
 CREATE TABLE a1(one PRIMARY KEY, two);
 INSERT INTO a1 VALUES(1, 1);
 INSERT INTO a1 VALUES(2, 3);
 INSERT INTO a1 VALUES(3, 6);
 INSERT INTO a1 VALUES(4, 10);

 CREATE TABLE a2(one PRIMARY KEY, three);
 INSERT INTO a2 VALUES(1, 1);
 INSERT INTO a2 VALUES(3, 2);
 INSERT INTO a2 VALUES(6, 3);
 INSERT INTO a2 VALUES(10, 4);
} {}
do_select_tests e_select-4.6 {
 1 "SELECT one, two, count(*) FROM a1"                      {4 10 4}
 2 "SELECT one, two, count(*) FROM a1 WHERE one<3"          {2 3 2}
 3 "SELECT one, two, count(*) FROM a1 WHERE one>3"          {4 10 1}
 4 "SELECT *, count(*) FROM a1 JOIN a2"                     {4 10 10 4 16}
 5 "SELECT *, sum(three) FROM a1 NATURAL JOIN a2"           {3 6 2 3}
 6 "SELECT *, sum(three) FROM a1 NATURAL JOIN a2"           {3 6 2 3}
 7 "SELECT group_concat(three, ''), a1.* FROM a1 NATURAL JOIN a2" {12 3 6}
}
```

```
# EVIDENCE-OF: R-04486-07266 Or, if the dataset contains zero rows, then
# each non-aggregate expression is evaluated against a row consisting
# entirely of NULL values.
#
do_select_tests e_select-4.7 {
 1  "SELECT one, two, count(*) FROM a1 WHERE 0"           {{} {} 0}
 2  "SELECT sum(two), * FROM a1, a2 WHERE three>5"       {{} {} {} {} {}}
 3  "SELECT max(one) IS NULL, one IS NULL, two IS NULL FROM a1 WHERE two=7" {
   1 1 1
 }
}

# EVIDENCE-OF: R-64138-28774 An aggregate query without a GROUP BY
# clause always returns exactly one row of data, even if there are zero
# rows of input data.
#
foreach {tn select} {
 8.1  "SELECT count(*) FROM a1"
 8.2  "SELECT count(*) FROM a1 WHERE 0"
 8.3  "SELECT count(*) FROM a1 WHERE 1"
 8.4  "SELECT max(a1.one)+min(two), a1.one, two, * FROM a1, a2 WHERE 1"
 8.5  "SELECT max(a1.one)+min(two), a1.one, two, * FROM a1, a2 WHERE 0"
} {
 # Set $nRow to the number of rows returned by $select:
 set ::stmt [sqlite3_prepare_v2 db $select -1 DUMMY]
 set nRow 0
 while {"SQLITE_ROW" == [sqlite3_step $::stmt]} { incr nRow }
 set rc [sqlite3_finalize $::stmt]

 # Test that $nRow==1 and that statement execution was successful
 # (rc==SQLITE_OK).
 do_test e_select-4.$tn [list list $rc $nRow] {SQLITE_OK 1}
}

drop_all_tables
do_execsql_test e_select-4.9.0 {
 CREATE TABLE b1(one PRIMARY KEY, two);
 INSERT INTO b1 VALUES(1, 'o');
 INSERT INTO b1 VALUES(4, 'f');
 INSERT INTO b1 VALUES(3, 't');
 INSERT INTO b1 VALUES(2, 't');
 INSERT INTO b1 VALUES(5, 'f');
 INSERT INTO b1 VALUES(7, 's');
 INSERT INTO b1 VALUES(6, 's');

 CREATE TABLE b2(x, y);
 INSERT INTO b2 VALUES(NULL, 0);
```

```
 INSERT INTO b2 VALUES(NULL, 1);
 INSERT INTO b2 VALUES('xyz', 2);
 INSERT INTO b2 VALUES('abc', 3);
 INSERT INTO b2 VALUES('xyz', 4);

 CREATE TABLE b3(a COLLATE nocase, b COLLATE binary);
 INSERT INTO b3 VALUES('abc', 'abc');
 INSERT INTO b3 VALUES('aBC', 'aBC');
 INSERT INTO b3 VALUES('Def', 'Def');
 INSERT INTO b3 VALUES('dEF', 'dEF');
} {}

# EVIDENCE-OF: R-57754-57109 If the SELECT statement is an aggregate
# query with a GROUP BY clause, then each of the expressions specified
# as part of the GROUP BY clause is evaluated for each row of the
# dataset. Each row is then assigned to a "group" based on the results;
# rows for which the results of evaluating the GROUP BY expressions are
# the same are assigned to the same group.
#
#   These tests also show that the following is not untrue:
#
# EVIDENCE-OF: R-25883-55063 The expressions in the GROUP BY clause do
# not have to be expressions that appear in the result.
#
do_select_tests e_select-4.9 {
 1  "SELECT group_concat(one), two FROM b1 GROUP BY two" {
  /#,# f   1 o   #,#   s #,# t/
 }
 2  "SELECT group_concat(one), sum(one) FROM b1 GROUP BY (one>4)" {
  1,2,3,4 10    5,6,7 18
 }
 3  "SELECT group_concat(one) FROM b1 GROUP BY (two>'o'), one%2" {
  4  1,5    2,6   3,7
 }
 4  "SELECT group_concat(one) FROM b1 GROUP BY (one==2 OR two=='o')" {
  4,3,5,7,6    1,2
 }
}

# EVIDENCE-OF: R-14926-50129 For the purposes of grouping rows, NULL
# values are considered equal.
#
do_select_tests e_select-4.10 {
 1  "SELECT group_concat(y) FROM b2 GROUP BY x" {/#,#   3   #,#/}
 2  "SELECT count(*) FROM b2 GROUP BY CASE WHEN y<4 THEN NULL ELSE 0 END" {4 1}
}

# EVIDENCE-OF: R-10470-30318 The usual rules for selecting a collation
```

```
# sequence with which to compare text values apply when evaluating
# expressions in a GROUP BY clause.
#
do_select_tests e_select-4.11 {
 1  "SELECT count(*) FROM b3 GROUP BY b"      {1 1 1 1}
 2  "SELECT count(*) FROM b3 GROUP BY a"      {2 2}
 3  "SELECT count(*) FROM b3 GROUP BY +b"     {1 1 1 1}
 4  "SELECT count(*) FROM b3 GROUP BY +a"     {2 2}
 5  "SELECT count(*) FROM b3 GROUP BY b||''"  {1 1 1 1}
 6  "SELECT count(*) FROM b3 GROUP BY a||''"  {1 1 1 1}
}

# EVIDENCE-OF: R-63573-50730 The expressions in a GROUP BY clause may
# not be aggregate expressions.
#
foreach {tn select} {
 12.1  "SELECT * FROM b3 GROUP BY count(*)"
 12.2  "SELECT max(a) FROM b3 GROUP BY max(b)"
 12.3  "SELECT group_concat(a) FROM b3 GROUP BY a, max(b)"
} {
 set res {1 {aggregate functions are not allowed in the GROUP BY clause}}
 do_catchsql_test e_select-4.$tn $select $res
}

# EVIDENCE-OF: R-31537-00101 If a HAVING clause is specified, it is
# evaluated once for each group of rows as a boolean expression. If the
# result of evaluating the HAVING clause is false, the group is
# discarded.
#
#   This requirement is tested by all e_select-4.13.* tests.
#
# EVIDENCE-OF: R-04132-09474 If the HAVING clause is an aggregate
# expression, it is evaluated across all rows in the group.
#
#   Tested by e_select-4.13.1.*
#
# EVIDENCE-OF: R-28262-47447 If a HAVING clause is a non-aggregate
# expression, it is evaluated with respect to an arbitrarily selected
# row from the group.
#
#   Tested by e_select-4.13.2.*
#
#   Tests in this block also show that this is not untrue:
#
# EVIDENCE-OF: R-55403-13450 The HAVING expression may refer to values,
# even aggregate functions, that are not in the result.
#
do_execsql_test e_select-4.13.0 {
```

```
 CREATE TABLE c1(up, down);
 INSERT INTO c1 VALUES('x', 1);
 INSERT INTO c1 VALUES('x', 2);
 INSERT INTO c1 VALUES('x', 4);
 INSERT INTO c1 VALUES('x', 8);
 INSERT INTO c1 VALUES('y', 16);
 INSERT INTO c1 VALUES('y', 32);

 CREATE TABLE c2(i, j);
 INSERT INTO c2 VALUES(1, 0);
 INSERT INTO c2 VALUES(2, 1);
 INSERT INTO c2 VALUES(3, 3);
 INSERT INTO c2 VALUES(4, 6);
 INSERT INTO c2 VALUES(5, 10);
 INSERT INTO c2 VALUES(6, 15);
 INSERT INTO c2 VALUES(7, 21);
 INSERT INTO c2 VALUES(8, 28);
 INSERT INTO c2 VALUES(9, 36);

 CREATE TABLE c3(i PRIMARY KEY, k TEXT);
 INSERT INTO c3 VALUES(1,  'hydrogen');
 INSERT INTO c3 VALUES(2,  'helium');
 INSERT INTO c3 VALUES(3,  'lithium');
 INSERT INTO c3 VALUES(4,  'beryllium');
 INSERT INTO c3 VALUES(5,  'boron');
 INSERT INTO c3 VALUES(94, 'plutonium');
} {}

do_select_tests e_select-4.13 {
 1.1  "SELECT up FROM c1 GROUP BY up HAVING count(*)>3" {x}
 1.2  "SELECT up FROM c1 GROUP BY up HAVING sum(down)>16" {y}
 1.3  "SELECT up FROM c1 GROUP BY up HAVING sum(down)<16" {x}
 1.4  "SELECT up||down FROM c1 GROUP BY (down<5) HAVING max(down)<10" {x4}

 2.1  "SELECT up FROM c1 GROUP BY up HAVING down>10" {y}
 2.2  "SELECT up FROM c1 GROUP BY up HAVING up='y'"  {y}

 2.3  "SELECT i, j FROM c2 GROUP BY i>4 HAVING i>6"  {9 36}
}

# EVIDENCE-OF: R-23927-54081 Each expression in the result-set is then
# evaluated once for each group of rows.
#
# EVIDENCE-OF: R-53735-47017 If the expression is an aggregate
# expression, it is evaluated across all rows in the group.
#
do_select_tests e_select-4.15 {
 1  "SELECT sum(down) FROM c1 GROUP BY up" {15 48}
```

```
 2  "SELECT sum(j), max(j) FROM c2 GROUP BY (i%3)"     {54 36 27 21 39 28}
 3  "SELECT sum(j), max(j) FROM c2 GROUP BY (j%2)"     {80 36 40 21}
 4  "SELECT 1+sum(j), max(j)+1 FROM c2 GROUP BY (j%2)" {81 37 41 22}
 5  "SELECT count(*), round(avg(i),2) FROM c1, c2 ON (i=down) GROUP BY j%2"
      {3 4.33 1 2.0}
}

# EVIDENCE-OF: R-62913-19830 Otherwise, it is evaluated against a single
# arbitrarily chosen row from within the group.
#
# EVIDENCE-OF: R-53924-08809 If there is more than one non-aggregate
# expression in the result-set, then all such expressions are evaluated
# for the same row.
#
do_select_tests e_select-4.15 {
 1  "SELECT i, j FROM c2 GROUP BY i%2"            {8 28   9 36}
 2  "SELECT i, j FROM c2 GROUP BY i%2 HAVING j<30" {8 28}
 3  "SELECT i, j FROM c2 GROUP BY i%2 HAVING j>30" {9 36}
 4  "SELECT i, j FROM c2 GROUP BY i%2 HAVING j>30" {9 36}
 5  "SELECT count(*), i, k FROM c2 NATURAL JOIN c3 GROUP BY substr(k, 1, 1)"
      {2 5 boron   2 2 helium   1 3 lithium}
}

# EVIDENCE-OF: R-19334-12811 Each group of input dataset rows
# contributes a single row to the set of result rows.
#
# EVIDENCE-OF: R-02223-49279 Subject to filtering associated with the
# DISTINCT keyword, the number of rows returned by an aggregate query
# with a GROUP BY clause is the same as the number of groups of rows
# produced by applying the GROUP BY and HAVING clauses to the filtered
# input dataset.
#
do_select_tests e_select.4.16 -count {
 1  "SELECT i, j FROM c2 GROUP BY i%2"         2
 2  "SELECT i, j FROM c2 GROUP BY i"           9
 3  "SELECT i, j FROM c2 GROUP BY i HAVING i<5" 4
}

#-------------------------------------------------------------------------
# The following tests attempt to verify statements made regarding the ALL
# and DISTINCT keywords.
#
drop_all_tables
do_execsql_test e_select-5.1.0 {
 CREATE TABLE h1(a, b);
 INSERT INTO h1 VALUES(1, 'one');
 INSERT INTO h1 VALUES(1, 'I');
 INSERT INTO h1 VALUES(1, 'i');
```

```
 INSERT INTO h1 VALUES(4, 'four');
 INSERT INTO h1 VALUES(4, 'IV');
 INSERT INTO h1 VALUES(4, 'iv');

 CREATE TABLE h2(x COLLATE nocase);
 INSERT INTO h2 VALUES('One');
 INSERT INTO h2 VALUES('Two');
 INSERT INTO h2 VALUES('Three');
 INSERT INTO h2 VALUES('Four');
 INSERT INTO h2 VALUES('one');
 INSERT INTO h2 VALUES('two');
 INSERT INTO h2 VALUES('three');
 INSERT INTO h2 VALUES('four');

 CREATE TABLE h3(c, d);
 INSERT INTO h3 VALUES(1, NULL);
 INSERT INTO h3 VALUES(2, NULL);
 INSERT INTO h3 VALUES(3, NULL);
 INSERT INTO h3 VALUES(4, '2');
 INSERT INTO h3 VALUES(5, NULL);
 INSERT INTO h3 VALUES(6, '2,3');
 INSERT INTO h3 VALUES(7, NULL);
 INSERT INTO h3 VALUES(8, '2,4');
 INSERT INTO h3 VALUES(9, '3');
} {}

# EVIDENCE-OF: R-60770-10612 One of the ALL or DISTINCT keywords may
# follow the SELECT keyword in a simple SELECT statement.
#
do_select_tests e_select-5.1 {
 1   "SELECT ALL a FROM h1"      {1 1 1 4 4 4}
 2   "SELECT DISTINCT a FROM h1" {1 4}
}

# EVIDENCE-OF: R-08861-34280 If the simple SELECT is a SELECT ALL, then
# the entire set of result rows are returned by the SELECT.
#
# EVIDENCE-OF: R-47911-02086 If neither ALL or DISTINCT are present,
# then the behavior is as if ALL were specified.
#
# EVIDENCE-OF: R-14442-41305 If the simple SELECT is a SELECT DISTINCT,
# then duplicate rows are removed from the set of result rows before it
# is returned.
#
#   The three testable statements above are tested by e_select-5.2.*,
#   5.3.* and 5.4.* respectively.
#
do_select_tests e_select-5 {
```

```
 3.1 "SELECT ALL x FROM h2" {One Two Three Four one two three four}
 3.2 "SELECT ALL x FROM h1, h2 ON (x=b)" {One one Four four}

 3.1 "SELECT x FROM h2" {One Two Three Four one two three four}
 3.2 "SELECT x FROM h1, h2 ON (x=b)" {One one Four four}

 4.1 "SELECT DISTINCT x FROM h2" {One Two Three Four}
 4.2 "SELECT DISTINCT x FROM h1, h2 ON (x=b)" {One Four}
}

# EVIDENCE-OF: R-02054-15343 For the purposes of detecting duplicate
# rows, two NULL values are considered to be equal.
#
do_select_tests e_select-5.5 {
 1  "SELECT DISTINCT d FROM h3" {{} 2 2,3 2,4 3}
}

# EVIDENCE-OF: R-58359-52112 The normal rules for selecting a collation
# sequence to compare text values with apply.
#
do_select_tests e_select-5.6 {
 1  "SELECT DISTINCT b FROM h1"                {one I i four IV iv}
 2  "SELECT DISTINCT b COLLATE nocase FROM h1"   {one I four IV}
 3  "SELECT DISTINCT x FROM h2"                {One Two Three Four}
 4  "SELECT DISTINCT x COLLATE binary FROM h2"   {
   One Two Three Four one two three four
 }
}

#-------------------------------------------------------------------------
# The following tests - e_select-7.* - test that statements made to do
# with compound SELECT statements are correct.
#

# EVIDENCE-OF: R-39368-64333 In a compound SELECT, all the constituent
# SELECTs must return the same number of result columns.
#
#   All the other tests in this section use compound SELECTs created
#   using component SELECTs that do return the same number of columns.
#   So the tests here just show that it is an error to attempt otherwise.
#
drop_all_tables
do_execsql_test e_select-7.1.0 {
 CREATE TABLE j1(a, b, c);
 CREATE TABLE j2(e, f);
 CREATE TABLE j3(g);
} {}
do_select_tests e_select-7.1 -error {
```

```
 SELECTs to the left and right of %s do not have the same number of result columns
} {
 1  "SELECT a, b FROM j1   UNION ALL SELECT g FROM j3"   {{UNION ALL}}
 2  "SELECT *   FROM j1   UNION ALL SELECT * FROM j3"   {{UNION ALL}}
 3  "SELECT a, b FROM j1   UNION ALL SELECT g FROM j3"   {{UNION ALL}}
 4  "SELECT a, b FROM j1   UNION ALL SELECT * FROM j3,j2" {{UNION ALL}}
 5  "SELECT *   FROM j3,j2 UNION ALL SELECT a, b FROM j1" {{UNION ALL}}

 6  "SELECT a, b FROM j1   UNION SELECT g FROM j3"       {UNION}
 7  "SELECT *   FROM j1   UNION SELECT * FROM j3"       {UNION}
 8  "SELECT a, b FROM j1   UNION SELECT g FROM j3"       {UNION}
 9  "SELECT a, b FROM j1   UNION SELECT * FROM j3,j2"    {UNION}
 10 "SELECT *   FROM j3,j2 UNION SELECT a, b FROM j1"    {UNION}

 11 "SELECT a, b FROM j1   INTERSECT SELECT g FROM j3"   {INTERSECT}
 12 "SELECT *   FROM j1   INTERSECT SELECT * FROM j3"   {INTERSECT}
 13 "SELECT a, b FROM j1   INTERSECT SELECT g FROM j3"   {INTERSECT}
 14 "SELECT a, b FROM j1   INTERSECT SELECT * FROM j3,j2" {INTERSECT}
 15 "SELECT *   FROM j3,j2 INTERSECT SELECT a, b FROM j1" {INTERSECT}

 16 "SELECT a, b FROM j1   EXCEPT SELECT g FROM j3"      {EXCEPT}
 17 "SELECT *   FROM j1   EXCEPT SELECT * FROM j3"      {EXCEPT}
 18 "SELECT a, b FROM j1   EXCEPT SELECT g FROM j3"      {EXCEPT}
 19 "SELECT a, b FROM j1   EXCEPT SELECT * FROM j3,j2"   {EXCEPT}
 20 "SELECT *   FROM j3,j2 EXCEPT SELECT a, b FROM j1"   {EXCEPT}
}

# EVIDENCE-OF: R-01450-11152 As the components of a compound SELECT must
# be simple SELECT statements, they may not contain ORDER BY or LIMIT
# clauses.
#
foreach {tn select op1 op2} {
 1  "SELECT * FROM j1 ORDER BY a UNION ALL SELECT * FROM j2,j3"
    {ORDER BY} {UNION ALL}
 2  "SELECT count(*) FROM j1 ORDER BY 1 UNION ALL SELECT max(e) FROM j2"
    {ORDER BY} {UNION ALL}
 3  "SELECT count(*), * FROM j1 ORDER BY 1,2,3 UNION ALL SELECT *,* FROM j2"
    {ORDER BY} {UNION ALL}
 4  "SELECT * FROM j1 LIMIT 10 UNION ALL SELECT * FROM j2,j3"
    LIMIT {UNION ALL}
 5  "SELECT * FROM j1 LIMIT 10 OFFSET 5 UNION ALL SELECT * FROM j2,j3"
    LIMIT {UNION ALL}
 6  "SELECT a FROM j1 LIMIT (SELECT e FROM j2) UNION ALL SELECT g FROM j2,j3"
    LIMIT {UNION ALL}

 7  "SELECT * FROM j1 ORDER BY a UNION SELECT * FROM j2,j3"
    {ORDER BY} {UNION}
 8  "SELECT count(*) FROM j1 ORDER BY 1 UNION SELECT max(e) FROM j2"
```

```
    {ORDER BY} {UNION}
 9  "SELECT count(*), * FROM j1 ORDER BY 1,2,3 UNION SELECT *,* FROM j2"
    {ORDER BY} {UNION}
 10 "SELECT * FROM j1 LIMIT 10 UNION SELECT * FROM j2,j3"
    LIMIT {UNION}
 11 "SELECT * FROM j1 LIMIT 10 OFFSET 5 UNION SELECT * FROM j2,j3"
    LIMIT {UNION}
 12 "SELECT a FROM j1 LIMIT (SELECT e FROM j2) UNION SELECT g FROM j2,j3"
    LIMIT {UNION}

 13 "SELECT * FROM j1 ORDER BY a EXCEPT SELECT * FROM j2,j3"
    {ORDER BY} {EXCEPT}
 14 "SELECT count(*) FROM j1 ORDER BY 1 EXCEPT SELECT max(e) FROM j2"
    {ORDER BY} {EXCEPT}
 15 "SELECT count(*), * FROM j1 ORDER BY 1,2,3 EXCEPT SELECT *,* FROM j2"
    {ORDER BY} {EXCEPT}
 16 "SELECT * FROM j1 LIMIT 10 EXCEPT SELECT * FROM j2,j3"
    LIMIT {EXCEPT}
 17 "SELECT * FROM j1 LIMIT 10 OFFSET 5 EXCEPT SELECT * FROM j2,j3"
    LIMIT {EXCEPT}
 18 "SELECT a FROM j1 LIMIT (SELECT e FROM j2) EXCEPT SELECT g FROM j2,j3"
    LIMIT {EXCEPT}

 19 "SELECT * FROM j1 ORDER BY a INTERSECT SELECT * FROM j2,j3"
    {ORDER BY} {INTERSECT}
 20 "SELECT count(*) FROM j1 ORDER BY 1 INTERSECT SELECT max(e) FROM j2"
    {ORDER BY} {INTERSECT}
 21 "SELECT count(*), * FROM j1 ORDER BY 1,2,3 INTERSECT SELECT *,* FROM j2"
    {ORDER BY} {INTERSECT}
 22 "SELECT * FROM j1 LIMIT 10 INTERSECT SELECT * FROM j2,j3"
    LIMIT {INTERSECT}
 23 "SELECT * FROM j1 LIMIT 10 OFFSET 5 INTERSECT SELECT * FROM j2,j3"
    LIMIT {INTERSECT}
 24 "SELECT a FROM j1 LIMIT (SELECT e FROM j2) INTERSECT SELECT g FROM j2,j3"
    LIMIT {INTERSECT}
} {
 set err "$op1 clause should come after $op2 not before"
 do_catchsql_test e_select-7.2.$tn $select [list 1 $err]
}

# EVIDENCE-OF: R-22874-32655 ORDER BY and LIMIT clauses may only occur
# at the end of the entire compound SELECT.
#
foreach {tn select} {
 1  "SELECT * FROM j1 UNION ALL SELECT * FROM j2,j3 ORDER BY a"
 2  "SELECT count(*) FROM j1 UNION ALL SELECT max(e) FROM j2 ORDER BY 1"
 3  "SELECT count(*), * FROM j1 UNION ALL SELECT *,* FROM j2 ORDER BY 1,2,3"
 4  "SELECT * FROM j1 UNION ALL SELECT * FROM j2,j3 LIMIT 10"
```

```
 5  "SELECT * FROM j1 UNION ALL SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
 6  "SELECT a FROM j1 UNION ALL SELECT g FROM j2,j3 LIMIT (SELECT 10)"

 7  "SELECT * FROM j1 UNION SELECT * FROM j2,j3 ORDER BY a"
 8  "SELECT count(*) FROM j1 UNION SELECT max(e) FROM j2 ORDER BY 1"
 9  "SELECT count(*), * FROM j1 UNION SELECT *,* FROM j2 ORDER BY 1,2,3"
10  "SELECT * FROM j1 UNION SELECT * FROM j2,j3 LIMIT 10"
11  "SELECT * FROM j1 UNION SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
12  "SELECT a FROM j1 UNION SELECT g FROM j2,j3 LIMIT (SELECT 10)"

13  "SELECT * FROM j1 EXCEPT SELECT * FROM j2,j3 ORDER BY a"
14  "SELECT count(*) FROM j1 EXCEPT SELECT max(e) FROM j2 ORDER BY 1"
15  "SELECT count(*), * FROM j1 EXCEPT SELECT *,* FROM j2 ORDER BY 1,2,3"
16  "SELECT * FROM j1 EXCEPT SELECT * FROM j2,j3 LIMIT 10"
17  "SELECT * FROM j1 EXCEPT SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
18  "SELECT a FROM j1 EXCEPT SELECT g FROM j2,j3 LIMIT (SELECT 10)"

19  "SELECT * FROM j1 INTERSECT SELECT * FROM j2,j3 ORDER BY a"
20  "SELECT count(*) FROM j1 INTERSECT SELECT max(e) FROM j2 ORDER BY 1"
21  "SELECT count(*), * FROM j1 INTERSECT SELECT *,* FROM j2 ORDER BY 1,2,3"
22  "SELECT * FROM j1 INTERSECT SELECT * FROM j2,j3 LIMIT 10"
23  "SELECT * FROM j1 INTERSECT SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
24  "SELECT a FROM j1 INTERSECT SELECT g FROM j2,j3 LIMIT (SELECT 10)"
} {
 do_test e_select-7.3.$tn { catch {execsql $select} msg } 0
}

# EVIDENCE-OF: R-08531-36543 A compound SELECT created using UNION ALL
# operator returns all the rows from the SELECT to the left of the UNION
# ALL operator, and all the rows from the SELECT to the right of it.
#
drop_all_tables
do_execsql_test e_select-7.4.0 {
 CREATE TABLE q1(a TEXT, b INTEGER, c);
 CREATE TABLE q2(d NUMBER, e BLOB);
 CREATE TABLE q3(f REAL, g);

 INSERT INTO q1 VALUES(16, -87.66, NULL);
 INSERT INTO q1 VALUES('legible', 94, -42.47);
 INSERT INTO q1 VALUES('beauty', 36, NULL);

 INSERT INTO q2 VALUES('legible', 1);
 INSERT INTO q2 VALUES('beauty', 2);
 INSERT INTO q2 VALUES(-65.91, 4);
 INSERT INTO q2 VALUES('emanating', -16.56);

 INSERT INTO q3 VALUES('beauty', 2);
 INSERT INTO q3 VALUES('beauty', 2);
```

```
} {}
do_select_tests e_select-7.4 {
 1  {SELECT a FROM q1 UNION ALL SELECT d FROM q2}
    {16 legible beauty legible beauty -65.91 emanating}

 2  {SELECT * FROM q1 WHERE a=16 UNION ALL SELECT 'x', * FROM q2 WHERE oid=1}
    {16 -87.66 {} x legible 1}

 3  {SELECT count(*) FROM q1 UNION ALL SELECT min(e) FROM q2}
    {3 -16.56}

 4  {SELECT * FROM q2 UNION ALL SELECT * FROM q3}
    {legible 1 beauty 2 -65.91 4 emanating -16.56 beauty 2 beauty 2}
}

# EVIDENCE-OF: R-20560-39162 The UNION operator works the same way as
# UNION ALL, except that duplicate rows are removed from the final
# result set.
#
do_select_tests e_select-7.5 {
 1  {SELECT a FROM q1 UNION SELECT d FROM q2}
    {-65.91 16 beauty emanating legible}

 2  {SELECT * FROM q1 WHERE a=16 UNION SELECT 'x', * FROM q2 WHERE oid=1}
    {16 -87.66 {} x legible 1}

 3  {SELECT count(*) FROM q1 UNION SELECT min(e) FROM q2}
    {-16.56 3}

 4  {SELECT * FROM q2 UNION SELECT * FROM q3}
    {-65.91 4 beauty 2 emanating -16.56 legible 1}
}

# EVIDENCE-OF: R-45764-31737 The INTERSECT operator returns the
# intersection of the results of the left and right SELECTs.
#
do_select_tests e_select-7.6 {
 1  {SELECT a FROM q1 INTERSECT SELECT d FROM q2} {beauty legible}
 2  {SELECT * FROM q2 INTERSECT SELECT * FROM q3} {beauty 2}
}

# EVIDENCE-OF: R-25787-28949 The EXCEPT operator returns the subset of
# rows returned by the left SELECT that are not also returned by the
# right-hand SELECT.
#
do_select_tests e_select-7.7 {
 1  {SELECT a FROM q1 EXCEPT SELECT d FROM q2} {16}
```

```
 2   {SELECT * FROM q2 EXCEPT SELECT * FROM q3}
     {-65.91 4 emanating -16.56 legible 1}
}

# EVIDENCE-OF: R-40729-56447 Duplicate rows are removed from the results
# of INTERSECT and EXCEPT operators before the result set is returned.
#
do_select_tests e_select-7.8 {
 0   {SELECT * FROM q3} {beauty 2 beauty 2}

 1   {SELECT * FROM q3 INTERSECT SELECT * FROM q3} {beauty 2}
 2   {SELECT * FROM q3 EXCEPT SELECT a,b FROM q1}  {beauty 2}
}

# EVIDENCE-OF: R-46765-43362 For the purposes of determining duplicate
# rows for the results of compound SELECT operators, NULL values are
# considered equal to other NULL values and distinct from all non-NULL
# values.
#
db nullvalue null
do_select_tests e_select-7.9 {
 1   {SELECT NULL UNION ALL SELECT NULL} {null null}
 2   {SELECT NULL UNION     SELECT NULL} {null}
 3   {SELECT NULL INTERSECT SELECT NULL} {null}
 4   {SELECT NULL EXCEPT    SELECT NULL} {}

 5   {SELECT NULL UNION ALL SELECT 'ab'} {null ab}
 6   {SELECT NULL UNION     SELECT 'ab'} {null ab}
 7   {SELECT NULL INTERSECT SELECT 'ab'} {}
 8   {SELECT NULL EXCEPT    SELECT 'ab'} {null}

 9   {SELECT NULL UNION ALL SELECT 0} {null 0}
 10  {SELECT NULL UNION     SELECT 0} {null 0}
 11  {SELECT NULL INTERSECT SELECT 0} {}
 12  {SELECT NULL EXCEPT    SELECT 0} {null}

 13  {SELECT c FROM q1 UNION ALL SELECT g FROM q3} {null -42.47 null 2 2}
 14  {SELECT c FROM q1 UNION     SELECT g FROM q3} {null -42.47 2}
 15  {SELECT c FROM q1 INTERSECT SELECT g FROM q3} {}
 16  {SELECT c FROM q1 EXCEPT    SELECT g FROM q3} {null -42.47}
}
db nullvalue {}

# EVIDENCE-OF: R-51232-50224 The collation sequence used to compare two
# text values is determined as if the columns of the left and right-hand
# SELECT statements were the left and right-hand operands of the equals
# (=) operator, except that greater precedence is not assigned to a
# collation sequence specified with the postfix COLLATE operator.
```

```
#
drop_all_tables
do_execsql_test e_select-7.10.0 {
 CREATE TABLE y1(a COLLATE nocase, b COLLATE binary, c);
 INSERT INTO y1 VALUES('Abc', 'abc', 'aBC');
} {}
do_select_tests e_select-7.10 {
 1  {SELECT 'abc'              UNION SELECT 'ABC'} {ABC abc}
 2  {SELECT 'abc' COLLATE nocase UNION SELECT 'ABC'} {ABC}
 3  {SELECT 'abc'              UNION SELECT 'ABC' COLLATE nocase} {ABC}
 4  {SELECT 'abc' COLLATE binary UNION SELECT 'ABC' COLLATE nocase} {ABC abc}
 5  {SELECT 'abc' COLLATE nocase UNION SELECT 'ABC' COLLATE binary} {ABC}

 6  {SELECT a FROM y1 UNION SELECT b FROM y1}            {abc}
 7  {SELECT b FROM y1 UNION SELECT a FROM y1}            {Abc abc}
 8  {SELECT a FROM y1 UNION SELECT c FROM y1}            {aBC}

 9  {SELECT a FROM y1 UNION SELECT c COLLATE binary FROM y1} {aBC}
}

# EVIDENCE-OF: R-32706-07403 No affinity transformations are applied to
# any values when comparing rows as part of a compound SELECT.
#
drop_all_tables
do_execsql_test e_select-7.10.0 {
 CREATE TABLE w1(a TEXT, b NUMBER);
 CREATE TABLE w2(a, b TEXT);

 INSERT INTO w1 VALUES('1', 4.1);
 INSERT INTO w2 VALUES(1, 4.1);
} {}

do_select_tests e_select-7.11 {
 1  { SELECT a FROM w1 UNION SELECT a FROM w2 } {1 1}
 2  { SELECT a FROM w2 UNION SELECT a FROM w1 } {1 1}
 3  { SELECT b FROM w1 UNION SELECT b FROM w2 } {4.1 4.1}
 4  { SELECT b FROM w2 UNION SELECT b FROM w1 } {4.1 4.1}

 5  { SELECT a FROM w1 INTERSECT SELECT a FROM w2 } {}
 6  { SELECT a FROM w2 INTERSECT SELECT a FROM w1 } {}
 7  { SELECT b FROM w1 INTERSECT SELECT b FROM w2 } {}
 8  { SELECT b FROM w2 INTERSECT SELECT b FROM w1 } {}

 9  { SELECT a FROM w1 EXCEPT SELECT a FROM w2 } {1}
 10 { SELECT a FROM w2 EXCEPT SELECT a FROM w1 } {1}
 11 { SELECT b FROM w1 EXCEPT SELECT b FROM w2 } {4.1}
 12 { SELECT b FROM w2 EXCEPT SELECT b FROM w1 } {4.1}
}
```

```
# EVIDENCE-OF: R-32562-20566 When three or more simple SELECTs are
# connected into a compound SELECT, they group from left to right. In
# other words, if "A", "B" and "C" are all simple SELECT statements, (A
# op B op C) is processed as ((A op B) op C).
#
#   e_select-7.12.1: Precedence of UNION vs. INTERSECT
#   e_select-7.12.2: Precedence of UNION vs. UNION ALL
#   e_select-7.12.3: Precedence of UNION vs. EXCEPT
#   e_select-7.12.4: Precedence of INTERSECT vs. UNION ALL
#   e_select-7.12.5: Precedence of INTERSECT vs. EXCEPT
#   e_select-7.12.6: Precedence of UNION ALL vs. EXCEPT
#   e_select-7.12.7: Check that "a EXCEPT b EXCEPT c" is processed as
#                    "(a EXCEPT b) EXCEPT c".
#
# The INTERSECT and EXCEPT operations are mutually commutative. So
# the e_select-7.12.5 test cases do not prove very much.
#
drop_all_tables
do_execsql_test e_select-7.12.0 {
 CREATE TABLE t1(x);
 INSERT INTO t1 VALUES(1);
 INSERT INTO t1 VALUES(2);
 INSERT INTO t1 VALUES(3);
} {}
foreach {tn select res} {
 1a "(1,2) INTERSECT (1)   UNION     (3)"   {1 3}
 1b "(3)   UNION     (1,2) INTERSECT (1)"   {1}

 2a "(1,2) UNION     (3)   UNION ALL (1)"   {1 2 3 1}
 2b "(1)   UNION ALL (3)   UNION     (1,2)" {1 2 3}

 3a "(1,2) UNION     (3)   EXCEPT    (1)"   {2 3}
 3b "(1,2) EXCEPT    (3)   UNION     (1)"   {1 2}

 4a "(1,2) INTERSECT (1)   UNION ALL (3)"   {1 3}
 4b "(3)   UNION     (1,2) INTERSECT (1)"   {1}

 5a "(1,2) INTERSECT (2)   EXCEPT    (2)"   {}
 5b "(2,3) EXCEPT    (2)   INTERSECT (2)"   {}

 6a "(2)   UNION ALL (2)   EXCEPT    (2)"   {}
 6b "(2)   EXCEPT    (2)   UNION ALL (2)"   {2}

 7  "(2,3) EXCEPT    (2)   EXCEPT    (3)"   {}
} {
 set select [string map {( {SELECT x FROM t1 WHERE x IN (}} $select]
```

```
 do_execsql_test e_select-7.12.$tn $select [list {*}$res]
}


#-------------------------------------------------------------------------
# ORDER BY clauses
#

drop_all_tables
do_execsql_test e_select-8.1.0 {
 CREATE TABLE d1(x, y, z);

 INSERT INTO d1 VALUES(1, 2, 3);
 INSERT INTO d1 VALUES(2, 5, -1);
 INSERT INTO d1 VALUES(1, 2, 8);
 INSERT INTO d1 VALUES(1, 2, 7);
 INSERT INTO d1 VALUES(2, 4, 93);
 INSERT INTO d1 VALUES(1, 2, -20);
 INSERT INTO d1 VALUES(1, 4, 93);
 INSERT INTO d1 VALUES(1, 5, -1);

 CREATE TABLE d2(a, b);
 INSERT INTO d2 VALUES('gently', 'failings');
 INSERT INTO d2 VALUES('commercials', 'bathrobe');
 INSERT INTO d2 VALUES('iterate', 'sexton');
 INSERT INTO d2 VALUES('babied', 'charitableness');
 INSERT INTO d2 VALUES('solemnness', 'annexed');
 INSERT INTO d2 VALUES('rejoicing', 'liabilities');
 INSERT INTO d2 VALUES('pragmatist', 'guarded');
 INSERT INTO d2 VALUES('barked', 'interrupted');
 INSERT INTO d2 VALUES('reemphasizes', 'reply');
 INSERT INTO d2 VALUES('lad', 'relenting');
} {}

# EVIDENCE-OF: R-44988-41064 Rows are first sorted based on the results
# of evaluating the left-most expression in the ORDER BY list, then ties
# are broken by evaluating the second left-most expression and so on.
#
do_select_tests e_select-8.1 {
 1  "SELECT * FROM d1 ORDER BY x, y, z" {
   1 2 -20   1 2 3   1 2 7   1 2 8
   1 4  93   1 5 -1  2 4 93  2 5 -1
 }
}

# EVIDENCE-OF: R-06617-54588 Each ORDER BY expression may be optionally
# followed by one of the keywords ASC (smaller values are returned
# first) or DESC (larger values are returned first).
```

```
#
#   Test cases e_select-8.2.* test the above.
#
# EVIDENCE-OF: R-18705-33393 If neither ASC or DESC are specified, rows
# are sorted in ascending (smaller values first) order by default.
#
#   Test cases e_select-8.3.* test the above. All 8.3 test cases are
#   copies of 8.2 test cases with the explicit "ASC" removed.
#
do_select_tests e_select-8 {
 2.1  "SELECT * FROM d1 ORDER BY x ASC, y ASC, z ASC" {
   1 2 -20    1 2 3    1 2 7    1 2 8
   1 4  93    1 5 -1   2 4 93   2 5 -1
 }
 2.2  "SELECT * FROM d1 ORDER BY x DESC, y DESC, z DESC" {
   2 5 -1     2 4 93   1 5 -1   1 4  93
   1 2 8      1 2 7    1 2 3    1 2 -20
 }
 2.3 "SELECT * FROM d1 ORDER BY x DESC, y ASC, z DESC" {
   2 4 93   2 5 -1     1 2 8      1 2 7
   1 2 3    1 2 -20    1 4  93    1 5 -1
 }
 2.4  "SELECT * FROM d1 ORDER BY x DESC, y ASC, z ASC" {
   2 4 93   2 5 -1     1 2 -20    1 2 3
   1 2 7    1 2 8      1 4  93    1 5 -1
 }

 3.1  "SELECT * FROM d1 ORDER BY x, y, z" {
   1 2 -20    1 2 3    1 2 7    1 2 8
   1 4  93    1 5 -1   2 4 93   2 5 -1
 }
 3.3  "SELECT * FROM d1 ORDER BY x DESC, y, z DESC" {
   2 4 93   2 5 -1     1 2 8      1 2 7
   1 2 3    1 2 -20    1 4  93    1 5 -1
 }
 3.4 "SELECT * FROM d1 ORDER BY x DESC, y, z" {
   2 4 93   2 5 -1     1 2 -20    1 2 3
   1 2 7    1 2 8      1 4  93    1 5 -1
 }
}

# EVIDENCE-OF: R-29779-04281 If the ORDER BY expression is a constant
# integer K then the expression is considered an alias for the K-th
# column of the result set (columns are numbered from left to right
# starting with 1).
#
do_select_tests e_select-8.4 {
 1  "SELECT * FROM d1 ORDER BY 1 ASC, 2 ASC, 3 ASC" {
```

```
  1 2 -20    1 2 3    1 2 7    1 2 8
  1 4  93    1 5 -1   2 4 93   2 5 -1
}
2  "SELECT * FROM d1 ORDER BY 1 DESC, 2 DESC, 3 DESC" {
  2 5 -1     2 4 93   1 5 -1   1 4  93
  1 2 8      1 2 7    1 2 3    1 2 -20
}
3 "SELECT * FROM d1 ORDER BY 1 DESC, 2 ASC, 3 DESC" {
  2 4 93   2 5 -1     1 2 8      1 2 7
  1 2 3    1 2 -20    1 4  93    1 5 -1
}
4  "SELECT * FROM d1 ORDER BY 1 DESC, 2 ASC, 3 ASC" {
  2 4 93   2 5 -1     1 2 -20    1 2 3
  1 2 7    1 2 8      1 4  93    1 5 -1
}
5  "SELECT * FROM d1 ORDER BY 1, 2, 3" {
  1 2 -20    1 2 3    1 2 7    1 2 8
  1 4  93    1 5 -1   2 4 93   2 5 -1
}
6  "SELECT * FROM d1 ORDER BY 1 DESC, 2, 3 DESC" {
  2 4 93   2 5 -1     1 2 8      1 2 7
  1 2 3    1 2 -20    1 4  93    1 5 -1
}
7  "SELECT * FROM d1 ORDER BY 1 DESC, 2, 3" {
  2 4 93   2 5 -1     1 2 -20    1 2 3
  1 2 7    1 2 8      1 4  93    1 5 -1
}
8  "SELECT z, x FROM d1 ORDER BY 2" {
  /# 1    # 1    # 1   # 1
   # 1    # 1    # 2   # 2/
}
9  "SELECT z, x FROM d1 ORDER BY 1" {
  /-20 1  -1 #   -1 #   3 1
  7 1     8 1   93 #   93 #/
}
}

# EVIDENCE-OF: R-63286-51977 If the ORDER BY expression is an identifier
# that corresponds to the alias of one of the output columns, then the
# expression is considered an alias for that column.
#
do_select_tests e_select-8.5 {
1   "SELECT z+1 AS abc FROM d1 ORDER BY abc" {
 -19 0 0 4 8 9 94 94
}
2   "SELECT z+1 AS abc FROM d1 ORDER BY abc DESC" {
 94 94 9 8 4 0 0 -19
}
```

```
 3  "SELECT z AS x, x AS z FROM d1 ORDER BY z" {
  /# 1    # 1    # 1    # 1    # 1    # 1    # 2    # 2/
 }
 4  "SELECT z AS x, x AS z FROM d1 ORDER BY x" {
  /-20 1    -1 #    -1 #    3 1    7 1    8 1    93 #    93 #/
 }
}

# EVIDENCE-OF: R-65068-27207 Otherwise, if the ORDER BY expression is
# any other expression, it is evaluated and the returned value used to
# order the output rows.
#
# EVIDENCE-OF: R-03421-57988 If the SELECT statement is a simple SELECT,
# then an ORDER BY may contain any arbitrary expressions.
#
do_select_tests e_select-8.6 {
 1   "SELECT * FROM d1 ORDER BY x+y+z" {
  1 2 -20    1 5 -1    1 2 3    2 5 -1
  1 2 7      1 2 8     1 4 93   2 4 93
 }
 2   "SELECT * FROM d1 ORDER BY x*z" {
  1 2 -20    2 5 -1    1 5 -1    1 2 3
  1 2 7      1 2 8     1 4 93    2 4 93
 }
 3   "SELECT * FROM d1 ORDER BY y*z" {
  1 2 -20    2 5 -1    1 5 -1    1 2 3
  1 2 7      1 2 8     2 4 93    1 4 93
 }
}

# EVIDENCE-OF: R-28853-08147 However, if the SELECT is a compound
# SELECT, then ORDER BY expressions that are not aliases to output
# columns must be exactly the same as an expression used as an output
# column.
#
do_select_tests e_select-8.7.1 -error {
 %s ORDER BY term does not match any column in the result set
} {
 1   "SELECT x FROM d1 UNION ALL SELECT a FROM d2 ORDER BY x*z"        1st
 2   "SELECT x,z FROM d1 UNION ALL SELECT a,b FROM d2 ORDER BY x, x/z" 2nd
}

do_select_tests e_select-8.7.2 {
 1   "SELECT x*z FROM d1 UNION ALL SELECT a FROM d2 ORDER BY x*z" {
  -20 -2 -1 3 7 8 93 186 babied barked commercials gently
  iterate lad pragmatist reemphasizes rejoicing solemnness
 }
 2   "SELECT x, x/z FROM d1 UNION ALL SELECT a,b FROM d2 ORDER BY x, x/z" {
```

```
  1 -1 1 0 1 0 1 0 1 0 1 0 2 -2 2 0
  babied charitableness barked interrupted commercials bathrobe gently
  failings iterate sexton lad relenting pragmatist guarded reemphasizes reply
  rejoicing liabilities solemnness annexed
 }
}

do_execsql_test e_select-8.8.0 {
 CREATE TABLE d3(a);
 INSERT INTO d3 VALUES('text');
 INSERT INTO d3 VALUES(14.1);
 INSERT INTO d3 VALUES(13);
 INSERT INTO d3 VALUES(X'78787878');
 INSERT INTO d3 VALUES(15);
 INSERT INTO d3 VALUES(12.9);
 INSERT INTO d3 VALUES(null);

 CREATE TABLE d4(x COLLATE nocase);
 INSERT INTO d4 VALUES('abc');
 INSERT INTO d4 VALUES('ghi');
 INSERT INTO d4 VALUES('DEF');
 INSERT INTO d4 VALUES('JKL');
} {}

# EVIDENCE-OF: R-10883-17697 For the purposes of sorting rows, values
# are compared in the same way as for comparison expressions.
#
#   The following tests verify that values of different types are sorted
#   correctly, and that mixed real and integer values are compared properly.
#
do_execsql_test e_select-8.8.1 {
 SELECT a FROM d3 ORDER BY a
} {{} 12.9 13 14.1 15 text xxxx}
do_execsql_test e_select-8.8.2 {
 SELECT a FROM d3 ORDER BY a DESC
} {xxxx text 15 14.1 13 12.9 {}}


# EVIDENCE-OF: R-64199-22471 If the ORDER BY expression is assigned a
# collation sequence using the postfix COLLATE operator, then the
# specified collation sequence is used.
#
do_execsql_test e_select-8.9.1 {
 SELECT x FROM d4 ORDER BY 1 COLLATE binary
} {DEF JKL abc ghi}
do_execsql_test e_select-8.9.2 {
 SELECT x COLLATE binary FROM d4 ORDER BY 1 COLLATE nocase
} {abc DEF ghi JKL}
```

```
# EVIDENCE-OF: R-09398-26102 Otherwise, if the ORDER BY expression is
# an alias to an expression that has been assigned a collation sequence
# using the postfix COLLATE operator, then the collation sequence
# assigned to the aliased expression is used.
#
#   In the test 8.10.2, the only result-column expression has no alias. So the
#   ORDER BY expression is not a reference to it and therefore does not inherit
#   the collation sequence. In test 8.10.3, "x" is the alias (as well as the
#   column name), so the ORDER BY expression is interpreted as an alias and the
#   collation sequence attached to the result column is used for sorting.
#
do_execsql_test e_select-8.10.1 {
 SELECT x COLLATE binary FROM d4 ORDER BY 1
} {DEF JKL abc ghi}
do_execsql_test e_select-8.10.2 {
 SELECT x COLLATE binary FROM d4 ORDER BY x
} {abc DEF ghi JKL}
do_execsql_test e_select-8.10.3 {
 SELECT x COLLATE binary AS x FROM d4 ORDER BY x
} {DEF JKL abc ghi}

# EVIDENCE-OF: R-27301-09658 Otherwise, if the ORDER BY expression is a
# column or an alias of an expression that is a column, then the default
# collation sequence for the column is used.
#
do_execsql_test e_select-8.11.1 {
 SELECT x AS y FROM d4 ORDER BY y
} {abc DEF ghi JKL}
do_execsql_test e_select-8.11.2 {
 SELECT x||'' FROM d4 ORDER BY x
} {abc DEF ghi JKL}

# EVIDENCE-OF: R-49925-55905 Otherwise, the BINARY collation sequence is
# used.
#
do_execsql_test e_select-8.12.1 {
 SELECT x FROM d4 ORDER BY x||''
} {DEF JKL abc ghi}

# EVIDENCE-OF: R-44130-32593 If an ORDER BY expression is not an integer
# alias, then SQLite searches the left-most SELECT in the compound for a
# result column that matches either the second or third rules above. If
# a match is found, the search stops and the expression is handled as an
# alias for the result column that it has been matched against.
# Otherwise, the next SELECT to the right is tried, and so on.
#
do_execsql_test e_select-8.13.0 {
```

```
CREATE TABLE d5(a, b);
CREATE TABLE d6(c, d);
CREATE TABLE d7(e, f);

INSERT INTO d5 VALUES(1, 'f');
INSERT INTO d6 VALUES(2, 'e');
INSERT INTO d7 VALUES(3, 'd');
INSERT INTO d5 VALUES(4, 'c');
INSERT INTO d6 VALUES(5, 'b');
INSERT INTO d7 VALUES(6, 'a');

CREATE TABLE d8(x COLLATE nocase);
CREATE TABLE d9(y COLLATE nocase);

INSERT INTO d8 VALUES('a');
INSERT INTO d9 VALUES('B');
INSERT INTO d8 VALUES('c');
INSERT INTO d9 VALUES('D');
} {}
do_select_tests e_select-8.13 {
 1  { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
      ORDER BY a
    } {1 2 3 4 5 6}
 2  { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
      ORDER BY c
    } {1 2 3 4 5 6}
 3  { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
      ORDER BY e
    } {1 2 3 4 5 6}
 4  { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
      ORDER BY 1
    } {1 2 3 4 5 6}

 5  { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY b }
    {f 1  c 4  4 c  1 f}
 6  { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY 2 }
    {f 1  c 4  4 c  1 f}

 7  { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY a }
    {1 f  4 c  c 4  f 1}
 8  { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY 1 }
    {1 f  4 c  c 4  f 1}

 9  { SELECT a, b FROM d5 UNION ALL SELECT b, a+1 FROM d5 ORDER BY a+1 }
    {f 2  c 5  4 c  1 f}
 10 { SELECT a, b FROM d5 UNION ALL SELECT b, a+1 FROM d5 ORDER BY 2 }
    {f 2  c 5  4 c  1 f}
```

```
 11  { SELECT a+1, b FROM d5 UNION ALL SELECT b, a+1 FROM d5 ORDER BY a+1 }
    {2 f  5 c  c 5  f 2}
 12  { SELECT a+1, b FROM d5 UNION ALL SELECT b, a+1 FROM d5 ORDER BY 1 }
    {2 f  5 c  c 5  f 2}
}

# EVIDENCE-OF: R-39265-04070 If no matching expression can be found in
# the result columns of any constituent SELECT, it is an error.
#
do_select_tests e_select-8.14 -error {
 %s ORDER BY term does not match any column in the result set
} {
 1  { SELECT a FROM d5 UNION SELECT c FROM d6 ORDER BY a+1 }          1st
 2  { SELECT a FROM d5 UNION SELECT c FROM d6 ORDER BY a, a+1 }       2nd
 3  { SELECT * FROM d5 INTERSECT SELECT * FROM d6 ORDER BY 'hello' }  1st
 4  { SELECT * FROM d5 INTERSECT SELECT * FROM d6 ORDER BY blah    }  1st
 5  { SELECT * FROM d5 INTERSECT SELECT * FROM d6 ORDER BY c,d,c+d }  3rd
 6  { SELECT * FROM d5 EXCEPT SELECT * FROM d7 ORDER BY 1,2,b,a/b  }  4th
}

# EVIDENCE-OF: R-03407-11483 Each term of the ORDER BY clause is
# processed separately and may be matched against result columns from
# different SELECT statements in the compound.
#
do_select_tests e_select-8.15 {
 1  { SELECT a, b FROM d5 UNION ALL SELECT c-1, d FROM d6 ORDER BY a, d }
   {1 e  1 f  4 b  4 c}
 2  { SELECT a, b FROM d5 UNION ALL SELECT c-1, d FROM d6 ORDER BY c-1, b }
   {1 e  1 f  4 b  4 c}
 3  { SELECT a, b FROM d5 UNION ALL SELECT c-1, d FROM d6 ORDER BY 1, 2 }
   {1 e  1 f  4 b  4 c}
}



#-------------------------------------------------------------------------
# Tests related to statements made about the LIMIT/OFFSET clause.
#
do_execsql_test e_select-9.0 {
 CREATE TABLE f1(a, b);
 INSERT INTO f1 VALUES(26, 'z');
 INSERT INTO f1 VALUES(25, 'y');
 INSERT INTO f1 VALUES(24, 'x');
 INSERT INTO f1 VALUES(23, 'w');
 INSERT INTO f1 VALUES(22, 'v');
 INSERT INTO f1 VALUES(21, 'u');
 INSERT INTO f1 VALUES(20, 't');
 INSERT INTO f1 VALUES(19, 's');
 INSERT INTO f1 VALUES(18, 'r');
```

```
 INSERT INTO f1 VALUES(17, 'q');
 INSERT INTO f1 VALUES(16, 'p');
 INSERT INTO f1 VALUES(15, 'o');
 INSERT INTO f1 VALUES(14, 'n');
 INSERT INTO f1 VALUES(13, 'm');
 INSERT INTO f1 VALUES(12, 'l');
 INSERT INTO f1 VALUES(11, 'k');
 INSERT INTO f1 VALUES(10, 'j');
 INSERT INTO f1 VALUES(9, 'i');
 INSERT INTO f1 VALUES(8, 'h');
 INSERT INTO f1 VALUES(7, 'g');
 INSERT INTO f1 VALUES(6, 'f');
 INSERT INTO f1 VALUES(5, 'e');
 INSERT INTO f1 VALUES(4, 'd');
 INSERT INTO f1 VALUES(3, 'c');
 INSERT INTO f1 VALUES(2, 'b');
 INSERT INTO f1 VALUES(1, 'a');
} {}

# EVIDENCE-OF: R-30481-56627 Any scalar expression may be used in the
# LIMIT clause, so long as it evaluates to an integer or a value that
# can be losslessly converted to an integer.
#
do_select_tests e_select-9.1 {
 1  { SELECT b FROM f1 ORDER BY a LIMIT 5 } {a b c d e}
 2  { SELECT b FROM f1 ORDER BY a LIMIT 2+3 } {a b c d e}
 3  { SELECT b FROM f1 ORDER BY a LIMIT (SELECT a FROM f1 WHERE b = 'e') }
    {a b c d e}
 4  { SELECT b FROM f1 ORDER BY a LIMIT 5.0 } {a b c d e}
 5  { SELECT b FROM f1 ORDER BY a LIMIT '5' } {a b c d e}
}

# EVIDENCE-OF: R-46155-47219 If the expression evaluates to a NULL value
# or any other value that cannot be losslessly converted to an integer,
# an error is returned.
#

do_select_tests e_select-9.2 -error "datatype mismatch" {
 1  { SELECT b FROM f1 ORDER BY a LIMIT 'hello' } {}
 2  { SELECT b FROM f1 ORDER BY a LIMIT NULL } {}
 3  { SELECT b FROM f1 ORDER BY a LIMIT X'ABCD' } {}
 4  { SELECT b FROM f1 ORDER BY a LIMIT 5.1 } {}
 5  { SELECT b FROM f1 ORDER BY a LIMIT (SELECT group_concat(b) FROM f1) } {}
}

# EVIDENCE-OF: R-03014-26414 If the LIMIT expression evaluates to a
# negative value, then there is no upper bound on the number of rows
# returned.
```

```
#
do_select_tests e_select-9.4 {
 1  { SELECT b FROM f1 ORDER BY a LIMIT -1 }
    {a b c d e f g h i j k l m n o p q r s t u v w x y z}
 2  { SELECT b FROM f1 ORDER BY a LIMIT length('abc')-100 }
    {a b c d e f g h i j k l m n o p q r s t u v w x y z}
 3  { SELECT b FROM f1 ORDER BY a LIMIT (SELECT count(*) FROM f1)/2 - 14 }
    {a b c d e f g h i j k l m n o p q r s t u v w x y z}
}

# EVIDENCE-OF: R-33750-29536 Otherwise, the SELECT returns the first N
# rows of its result set only, where N is the value that the LIMIT
# expression evaluates to.
#
do_select_tests e_select-9.5 {
 1  { SELECT b FROM f1 ORDER BY a LIMIT 0 } {}
 2  { SELECT b FROM f1 ORDER BY a DESC LIMIT 4 } {z y x w}
 3  { SELECT b FROM f1 ORDER BY a DESC LIMIT 8 } {z y x w v u t s}
 4  { SELECT b FROM f1 ORDER BY a DESC LIMIT '12.0' } {z y x w v u t s r q p o}
}

# EVIDENCE-OF: R-54935-19057 Or, if the SELECT statement would return
# less than N rows without a LIMIT clause, then the entire result set is
# returned.
#
do_select_tests e_select-9.6 {
 1  { SELECT b FROM f1 WHERE a>21 ORDER BY a LIMIT 10 } {v w x y z}
 2  { SELECT count(*) FROM f1 GROUP BY a/5 ORDER BY 1 LIMIT 10 } {2 4 5 5 5 5}
}



# EVIDENCE-OF: R-24188-24349 The expression attached to the optional
# OFFSET clause that may follow a LIMIT clause must also evaluate to an
# integer, or a value that can be losslessly converted to an integer.
#
foreach {tn select} {
 1  { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET 'hello' }
 2  { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET NULL }
 3  { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET X'ABCD' }
 4  { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET 5.1 }
 5  { SELECT b FROM f1 ORDER BY a
     LIMIT 2 OFFSET (SELECT group_concat(b) FROM f1)
 }
} {
 do_catchsql_test e_select-9.7.$tn $select {1 {datatype mismatch}}
}

# EVIDENCE-OF: R-20467-43422 If an expression has an OFFSET clause, then
```

```
# the first M rows are omitted from the result set returned by the
# SELECT statement and the next N rows are returned, where M and N are
# the values that the OFFSET and LIMIT clauses evaluate to,
# respectively.
#
do_select_tests e_select-9.8 {
 1  { SELECT b FROM f1 ORDER BY a LIMIT 10 OFFSET 5} {f g h i j k l m n o}
 2  { SELECT b FROM f1 ORDER BY a LIMIT 2+3 OFFSET 10} {k l m n o}
 3  { SELECT b FROM f1 ORDER BY a
     LIMIT  (SELECT a FROM f1 WHERE b='j')
     OFFSET (SELECT a FROM f1 WHERE b='b')
   } {c d e f g h i j k l}
 4  { SELECT b FROM f1 ORDER BY a LIMIT '5' OFFSET 3.0 } {d e f g h}
 5  { SELECT b FROM f1 ORDER BY a LIMIT '5' OFFSET 0 } {a b c d e}
 6  { SELECT b FROM f1 ORDER BY a LIMIT 0 OFFSET 10 } {}
 7  { SELECT b FROM f1 ORDER BY a LIMIT 3 OFFSET '1'||'5' } {p q r}
}

# EVIDENCE-OF: R-34648-44875 Or, if the SELECT would return less than
# M+N rows if it did not have a LIMIT clause, then the first M rows are
# skipped and the remaining rows (if any) are returned.
#
do_select_tests e_select-9.9 {
 1  { SELECT b FROM f1 ORDER BY a LIMIT 10 OFFSET 20} {u v w x y z}
 2  { SELECT a FROM f1 ORDER BY a DESC LIMIT 100 OFFSET 18+4} {4 3 2 1}
}


# EVIDENCE-OF: R-23293-62447 If the OFFSET clause evaluates to a
# negative value, the results are the same as if it had evaluated to
# zero.
#
do_select_tests e_select-9.10 {
 1  { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET -1 } {a b c d e}
 2  { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET -500 } {a b c d e}
 3  { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET 0  } {a b c d e}
}

# EVIDENCE-OF: R-19509-40356 Instead of a separate OFFSET clause, the
# LIMIT clause may specify two scalar expressions separated by a comma.
#
# EVIDENCE-OF: R-33788-46243 In this case, the first expression is used
# as the OFFSET expression and the second as the LIMIT expression.
#
do_select_tests e_select-9.11 {
 1  { SELECT b FROM f1 ORDER BY a LIMIT 5, 10 } {f g h i j k l m n o}
 2  { SELECT b FROM f1 ORDER BY a LIMIT 10, 2+3 } {k l m n o}
 3  { SELECT b FROM f1 ORDER BY a
```

```
     LIMIT (SELECT a FROM f1 WHERE b='b'), (SELECT a FROM f1 WHERE b='j')
   } {c d e f g h i j k l}
 4  { SELECT b FROM f1 ORDER BY a LIMIT 3.0, '5' } {d e f g h}
 5  { SELECT b FROM f1 ORDER BY a LIMIT 0, '5' } {a b c d e}
 6  { SELECT b FROM f1 ORDER BY a LIMIT 10, 0 } {}
 7  { SELECT b FROM f1 ORDER BY a LIMIT '1'||'5', 3 } {p q r}

 8  { SELECT b FROM f1 ORDER BY a LIMIT 20, 10 } {u v w x y z}
 9  { SELECT a FROM f1 ORDER BY a DESC LIMIT 18+4, 100 } {4 3 2 1}

 10 { SELECT b FROM f1 ORDER BY a LIMIT -1, 5 } {a b c d e}
 11 { SELECT b FROM f1 ORDER BY a LIMIT -500, 5 } {a b c d e}
 12 { SELECT b FROM f1 ORDER BY a LIMIT 0, 5 } {a b c d e}
}

finish_test
```

Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-src-3071700.zip-cosi-expand-archive-cheW8kUH/sqlite-src-3071700/test/e_select.test
No license file was found, but licenses were detected in source scan.

public domain.

Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-doc-3071700.zip-cosi-expand-archive-r9EckcaZ/sqlite-doc-3071700/changes.html
No license file was found, but licenses were detected in source scan.

```
/*
* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest.  This code was
* written by Colin Plumb in 1993, no copyright is claimed.
* This code is in the public domain; do with it what you wish.
*
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.
*
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*/
```

Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-

lltKQC5N/sqlite-src-3071700.zip-cosi-expand-archive-cheW8kUH/sqlite-src-3071700/src/tclsqlite.c
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-src-3071700.zip-cosi-expand-archive-cheW8kUH/sqlite-src-3071700/test/threadtest3.c
No license file was found, but licenses were detected in source scan.

SQLite is in the public domain. This document describes what that means

Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-doc-3071700.zip-cosi-expand-archive-r9EckcaZ/sqlite-doc-3071700/docs.html
No license file was found, but licenses were detected in source scan.

2.31 0
1.23 0
1.0 0

Found in path(s):
* %%Version
No license file was found, but licenses were detected in source scan.

<h3>Proprietary SQLite Extensions</h3>
public domain. But there also exist
proprietary, licensed extensions to SQLite, written and maintained
You are welcomed to use SQLite in closed source, proprietary, and/or

Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-doc-3071700.zip-cosi-expand-archive-r9EckcaZ/sqlite-doc-3071700/support.html
No license file was found, but licenses were detected in source scan.

<html>
<body bgcolor="white">
FOR IMMEDIATE RELEASE:

<h2 align="center">SQLite Consortium Launches With Mozilla And Symbian As Charter Members</h2>

<h3 align="center">Ensures independent technical direction for world's
most deployed SQL database engine</h3>

Charlotte, North Carolina - December 12, 2007 - The SQLite Consortium,
a new membership association dedicated to maintaining SQLite as a fully open
and independent product, was formally announced today. Mozilla and Symbian Ltd.
have joined the SQLite Consortium as charter members.

SQLite is a compact, high efficiency, high reliability, embeddable SQL database
engine. The source code to SQLite is in the public domain and is available with
no associated fees. SQLite is the most deployed SQL database engine in the world

and is currently used in a wide range of commercial software products and electronic devices from leading manufacturers. SQLite is found today in many mobile phones, MP3 players, set-top boxes, and PCs.

The mission of the SQLite Consortium is to continue developing and enhancing SQLite as a product that anyone may use without paying royalties or licensing fees. Members of the SQLite Consortium provide funding to enable this mission and in return receive enterprise-level technical support. Technical control and direction of SQLite remains entirely with the SQLite developers.

Mozilla, developer of the popular open-source Firefox web browser, and Symbian, the market-leading open operating system for advanced data-enabled smartphones, both deploy the SQLite database engine in their products. As charter members of the Consortium, Mozilla and Symbian are ensuring the development and support of SQLite as a freely accessible and public domain software asset.

"SQLite has become a popular embedded database because it is lightweight, fast, and open source," said Michael Schroepfer, Vice President of Engineering, Mozilla. "As a charter member of the SQLite Consortium, Mozilla is excited to help ensure SQLite remains a vibrant and open technology, in line with our mission to promote choice and innovation on the Internet."

"The SQLite Consortium will help set the standards for database management which are essential in smartphone functionality and will also help create a pool of developers, highly-skilled in SQLite for future mobile phone development, " said Bruce Carney, Director, Developer Programmes & Services, Symbian. "Our involvement with the SQL Consortium not only demonstrates Symbian's commitment to open standards in the industry, but as mobile phones become increasingly powerful and smartphones become increasingly popular, we are focused on ensuring that desktop developers, who move to the mobile space, have the easiest and most productive experience possible."

SQLite is a winner of the 2005 Google/O'Reilly Open Source Award. Additional information regarding the SQLite Consortium is available at the SQLite website, http://www.sqlite.org/.

# # #

About SQLite

SQLite is a software library that implements a self-contained, embeddable, serverless, zero-configuration, transactional SQL database engine. The code for SQLite is in the public domain and is free for any use, commercial or private. SQLite is currently found in countless software titles and electronic devices.

SQLite was originally developed and released 2000 by Dr. D. Richard Hipp.

The code continues to be maintained and enhanced by an international team
of developers under Hipp's direction.

CONTACT INFORMATION:
SQLite Consortium
Dr. D. Richard Hipp
6200 Maple Cove Lane
Charlotte, NC 28269
Email: drh@sqlite.org
http://www.sqlite.org/
Tel: +1.704.948.4565

About Mozilla

Mozilla is a global community dedicated to building free, open source products
and technologies that improve the online experience for people everywhere.
Mozilla works in the open with a highly disciplined, transparent and cooperative
development process, under the umbrella of the non-profit Mozilla Foundation.
As a wholly owned subsidiary, the Mozilla Corporation organizes the development
and marketing of Mozilla products. This unique structure has enabled Mozilla to
financially support and cultivate competitive, viable community innovation.
For more information, visit www.mozilla.com.

CONTACT INFORMATION:
Mozilla Corporation
Jessica Waight
Tel: +1.415.345.4754
Email: jwaight@outcastpr.com

About Symbian Limited

Symbian is a software licensing company that develops and licenses Symbian OS,
the market-leading open operating system for advanced, data-enabled mobile phones
known as smartphones.

Symbian licenses Symbian OS to the world's leading handset manufacturers
and has built close co-operative business relationships with leading companies
across the mobile industry. During Q3 2007, 20.4 million Symbian smartphones
were sold worldwide to over 250 major network operators, bringing the total
number of Symbian smartphones shipped up to 30 September 2007 to 165 million.

Symbian has its headquarters in London, United Kingdom, with offices in the
United States, United Kingdom, Asia (India, P.R. China, and Korea) and Japan.

For more information, please visit www.symbian.com.

CONTACT INFORMATION:
Symbian Global Press Office
Karen Hamblen
+44 207 154 1707
press@symbian.com

</body></html>

Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-doc-3071700.zip-cosi-expand-archive-r9EckcaZ/sqlite-doc-3071700/pressrelease-20071212.html
No license file was found, but licenses were detected in source scan.

```
# 2006 September 14
#
# The author disclaims copyright to this source code.  In place of
# a legal notice, here is a blessing:
#
#    May you do good and not evil.
#    May you find forgiveness for yourself and forgive others.
#    May you share freely, never taking more than you give.
#
#***********************************************************************
# This file implements regression tests for SQLite library.  The
# focus of this script is testing the FTS2 module.
#
# $Id: fts2c.test,v 1.1 2006/10/19 23:36:26 shess Exp $
#

set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS2 is defined, omit this file.
ifcapable !fts2 {
 finish_test
 return
}

# Create a table of sample email data.   The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
#
do_test fts2c-1.1 {
 db eval {
   CREATE VIRTUAL TABLE email USING fts2([from],[to],subject,body);
   BEGIN TRANSACTION;
```

INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

? If the transaction volume on the child is less than half of the parent''s minimum volume no hedge will occur.
? If the transaction volume on the child is more than half the parent''s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent''s minimum volume.
? For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent''s Settings:
Minimum: 5000
Increment: 1000

Volume on Autohedge transaction Volume Hedged
1 - 2499 0
2500 - 5499 5000
5500 - 6499 6000');
INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com,', 'Leaving Early', 'FYI:
If it''s ok with everyone''s needs, I would like to leave @4pm. If you think
you will need my assistance past the 4 o''clock hour just let me know; I''ll
be more than willing to stay.');
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready for approval:

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com');
INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,

Could you print off the current work request report by 1:30 today?

Gentlemen,

I''d like to review this today at 1:30 in our office. Also, could you provide

me with your activity reports so I can have Julie enter this information.

JD');
INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....
http://biz.yahoo.com/rf/010129/n29305829.html');
INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');
INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', '
The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent: Tuesday, October 16, 2001 3:42 PM
To: Carter, Karen E.
Subject: FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent: Friday, September 21, 2001 8:33 PM
Subject: Producers Newsletter 9-24-2001

');
INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame
and your recent visit with Mr. Fox that it would be difficult for either you
or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');
INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com', 'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884

877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent: Wednesday, September 26, 2001 7:50 AM
To: Fenceroy, LaChandra
Subject: FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent: Tuesday, September 25, 2001 2:41 PM
To: Bisbee, Joanne
Subject: Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');
INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com', 'RE: worksheets', 'Fran,
  If Julie''s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd''s sheets as well.
Thanks.
Dan

-----Original Message-----
From: Fagan, Fran
Sent: Thursday, December 20, 2001 11:10 AM
To: McCarty, Danny
Subject: worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

');
INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT');
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com,', 'TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y&current_efct_date=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.');
INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our
credit guy, Russell Diamond.

Thank for your help!');
INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.');
INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');
INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,
Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.
In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.
Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com
THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.
- OUTAGE.dbf
- 111201R.xls
- 111201.xls ');

INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com',
'all_ena_egm_eim@enron.com', 'EWS Brown Bag', 'MARK YOUR LUNCH CALENDARS NOW !

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610');
INSERT INTO email([from],[to],subject,body) VALUES('chris.germany@enron.com',
'ingrid.immer@williams.com', 'Re: About St Pauls', 'Sounds good to me. I bet this is next to the Warick?? Hotel.

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: ""chris.germany@enron.com"" <chris.germany@enron.com>
cc:
Subject: About St Pauls

<<About St Pauls.url>>
?
?http://www.stpaulshouston.org/about.html

Chris,

I like the looks of this place.? What do you think about going here Christmas
eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m.,
among others.

Let me know.?? ii

- About St Pauls.url

');
INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com,
kmccrea@sablaw.com, thompson@wrightlaw.com,', 'Reply Brief filed July 31, 2000', ' - CPUC01-#76371-v1-
Revised_Reply_Brief__Due_today_7_31_.doc');

INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder
As discussed in the Winter Operations Meeting on Sept.29,2000,
E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC.
Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy
chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.
');
INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com', '', '

Here is a goody for you');
INSERT INTO email([from],[to],subject,body) VALUES('ryan.o"rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com,', 'TRV Notification: (West VaR - 11/07/2001)', 'The report named: West VaR
<http://trv.corp.enron.com/linkFromExcel.asp?report_cd=36&report_name=West+VaR&category_cd=2&category_name=WEST&toc_hide=1&sTV1=2&TV1Exp=Y&current_efct_date=11/07/2001>, published as of 11/07/2001 is now available for viewing on the website.');
INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, ggreen2@txu.com, timpowell@txu.com,', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap 10.000 / Enron ; 110.000 / HPL IFERC

LS HPL LSK IC 30.000 / Enron
');
INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira');
INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn"t know how deep to go with the desk. Do you think this works.

');
INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', '', 'George,
Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160');
INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');
INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam

35227

-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295');
INSERT INTO email([from],[to],subject,body) VALUES('matt.smith@enron.com', 'yan.wang@enron.com', 'Report Formats', 'Yan,

The merged reports look great. I believe the only orientation changes are to
"unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.');
INSERT INTO email([from],[to],subject,body) VALUES('michelle.lokay@enron.com', 'jimboman@bigfoot.com', 'Egyptian Festival', '---------- Forwarded by Michelle Lokay/ET&S/Enron on 09/07/2000 10:08 AM ----------

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: ""Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)" <Leila_Mankarious@mhhs.org>, ""Marymankarious (E-mail)" <marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy Mankarious (E-mail)" <Mankarious@aol.com>
cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url
');
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com',
'sherry.dawson@enron.com', 'Urgent!!! --- New EAST books', 'This has to be done.....

Thanks
---------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000
08:39 AM ----------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David
Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R
Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra
Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is
extremely important that any deal booked to the East is communicated quickly
to someone on my team. I know it will take some time for the new names to
sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal : East Northeast
Dick Jenkins: East Marketeast

WK
');
INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com',
'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will
affect any Inactive Child.

An inactive Child with links to Parent products will not have their
calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and
updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you
will not see the final, calculated price until you Activate the product, at
which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');
INSERT INTO email([from],[to],subject,body) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re: Light reading - see pieces beginning on page 7', 'John,

I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc:
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com',
'mmmarcantel@equiva.com', 'RE:', 'i will try to line up a pig for you ');
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com, judy.martinez@enron.com,', 'Disaster Recovery Equipment', 'As a reminder...there are

several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760');
INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this
product out ASAP.

Thanks,

Eric');
INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm..tholt@enron.com', '10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE]
[IMAGE][IMAGE][IMAGE]
Dear SmartReminders Member,
    [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]

We respect your privacy and are a Certified Participant of the BBBOnLine
Privacy Program. To be removed from future offers,click here.
SmartReminders.com is a permission based service. To unsubscribe click here . ');
INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com',
'mark.bernstein@enron.com', '', 'The guy you are talking about left CIN under a "cloud of suspicion" sort of
speak. He was the one who got into several bad deals and PPA"s in California
for CIN, thus he left on a bad note. Let me know if you need more detail
than that, I felt this was the type of info you were looking for. Thanks!
Ben');
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com',
'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash
Report Name: Houston Cellular 8-11-01
Report Date: 12/13/01
Report ID: 594D37C9ED2111D5B452
Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this
requirement.');
INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com,
mark.palmer@enron.com, karen.denne@enron.com,', 'CAISO Emergency Motion -- to discontinue market-based
rates for', 'FYI. the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: ""smara@enron.com""
<smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently
they are requesting that FERC discontinue market-based rates immediately and
grant refunds plus interest on the difference between cost-based rates and
market revenues received back to May 2000. They are requesting the
commission act within 14 days. Have you heard anything about what they are
doing?

Marcie

http://www.caiso.com/docs/2001/06/08/200106081005526469.pdf
');
INSERT INTO email([from],[to],subject,body) VALUES('fletcher.sturm@enron.com', 'eloy.escobar@enron.com',
'Re: General Brinks Position Meeting', 'Eloy,

Who is General Brinks?

Fletch');
INSERT INTO email([from],[to],subject,body) VALUES('nailia.dindarova@enron.com',
'richard.shapiro@enron.com', 'Documents for Mark Frevert (on EU developments and lessons from', 'Rick,

Here are the documents that Peter has prepared for Mark Frevert.

Nailia
---------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001
16:36 ----------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter
Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from
California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert.
He has now handed them to him in person but asked me to transmit them
electronically to you, as well as Eric and Ross.

Nailia

');
INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com',
'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
Finalize market analysis to refine business case, specifically
projected revenue stream
Complete counterparty surveying, including targeting 3 CPs for letters
of intent
Review Enron asset base for potential reuse/ licensing
Contract negotiations

Joe will come back to us with an updated time line, but it is my
expectation that we are still on the same schedule (we just begun week
three) with possibly a week or so slippage.....contract negotiations will
probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)
- accenture-dealpoints v2.doc ');
INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com',
'Re: Guadalupe Power Partners LP', '---------------------- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001
03:49 PM ----------------------------

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at
either HSC, Waha or Katytailgate GD at buyers option three days prior to
NYMEX close.

');
INSERT INTO email([from],[to],subject,body) VALUES('judy.townsend@enron.com', 'dan.junek@enron.com,
chris.germany@enron.com', 'Columbia Distribution"s Capacity Available for Release - Sum', '----------------------
Forwarded by Judy Townsend/HOU/ECT on 03/09/2001 11:04
AM ----------------------------

agoddard@nisource.com on 03/08/2001 09:16:57 AM
To: " - *Koch, Kent" <kkoch@nisource.com>, " -
*Millar, Debra" <dmillar@nisource.com>, " - *Burke, Lynn"
<lburke@nisource.com>
cc: " - *Heckathorn, Tom" <theckathorn@nisource.com>
Subject: Columbia Distribution"s Capacity Available for Release - Sum

Attached is Columbia Distribution"s notice of capacity available for release
for
the summer of 2001 (Apr. 2001 through Oct. 2001).

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives
listed
at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc
');
INSERT INTO email([from],[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com, dana.davis@enron.com, genia.fitzgerald@enron.com,', 'Split Rock Energy LLC', 'We have received the executed EEI contract from this CP dated 12/12/2000.
Copies will be distributed to Legal and Credit.');
INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com, crow@millernash.com, michaelearly@earthlink.net,', 'Oral Argument Request', ' - Oral Argument Request.doc');
INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com', '', 'Did you come in town this wk end..... My new number at our house is :
713-668-3712..... my cell # is 281-381-7332

the kid');
INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info', '

-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

Its been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.
');
INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com,', 'email address change', 'Hello all.

I haven''t talked to many of you via email recently but I do want to give you

my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I"m hearing there is some hold-up & the units are stored on 44.

Shelley');
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com,', '2001 Enron Law Conference (Distribution List 2)', ' Enron Law Conference

San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

');
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i"ll call pat and let him know - we are coming on saturday - i just havent had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,

I"ll get it done today.

DG 3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');
INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com', 'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey');
INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com', 'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com,', 'Postings', 'Please see the attached.

ds

');
INSERT INTO email([from],[to],subject,body) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com, james_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn"t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL"s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com');
INSERT INTO email([from],[to],subject,body) VALUES('phillip.love@enron.com', 'todagost@utmb.edu, gbsonnta@utmb.edu', 'New President', 'I had a little bird put a word in my ear. Is there any possibility for Ben Raimer to be Bush"s secretary of HHS? Just curious about that infamous UTMB rumor mill. Hope things are well, happy holidays.
PL');
INSERT INTO email([from],[to],subject,body) VALUES('marie.heard@enron.com', 'ehamilton@fna.com', 'ISDA Master Agreement', 'Erin:

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

');
INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

');

INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com,', 'Price List week of Oct. 8-9, 2001', '
Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

');
INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com', 'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.');
INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com', 'RE: Constellation TC 5-7-01', 'Gregg,

I am at home with a sick baby. (Lots of fun!) I will call you about this
tomorrow.

Stacy');
INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', '', 'hey big guy.....check this out.....

w ww.gorelieberman-2000.com/');
INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqestc@aol.com', '', 'Jacques,

I sent you a fax of Kevin Kolb''s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)).
This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip');
INSERT INTO email([from],[to],subject,body) VALUES('kourtney.nelson@enron.com', 'mike.swerzbin@enron.com', 'Adjusted L/R Balance', 'Mike,

I placed the adjusted L/R Balance on the Enronwest site. It is under the ''Staff/Kourtney Nelson''. There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
 -Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com');
INSERT INTO email([from],[to],subject,body) VALUES('d..thomas@enron.com', 'naveed.ahmed@enron.com', 'FW: Current Enron TCC Portfolio', '

-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY"s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:08 AM
To: Grace, Rebecca M.
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>

Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',
'william.bradford@enron.com, debbie.brackett@enron.com,', 'Coastal Merchant Energy/El Paso Merchant Energy',
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy,
L.P., effective February 1, 2001, with the surviving entity being El Paso
Merchant Energy, L.P. We currently have ISDA Master Agreements with both
counterparties. Please see the attached memo regarding the existing Masters
and let us know which agreement should be terminated.

Thanks,
Stephanie
');
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE:
What about this too???', '

-----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>
');
INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com',
'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which
means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');
INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com',
'jworman@academyofhealth.com', '', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490');
INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', '', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY: APPOINTMENT

Description:
 Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:');
INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com',
'Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as
soon as Enron has done the due diligence for this country.
Thanks !

Best regards

Diana Seifert
EOL PCG');
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com',
'mark.whitt@enron.com', '<<Concur Expense Document>> - 121001', 'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com');
INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.');
INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com', 'RE:', 'duke contact?

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 10:14 AM
To: Storey, Geoff
Subject: RE:

bp corp Albert LaMore 281-366-4962

running the reports now

-----Original Message-----

From: Storey, Geoff
Sent: Wednesday, October 31, 2001 10:10 AM
To: Quigley, Dutch
Subject: RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject:

Coral Jeff Whitnah 713-767-5374
Relaint Steve McGinn 713-207-4000');
INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start Date: 4/22/01; HourAhead hour: 3; <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3; No ancillary schedules awarded.
Variances detected.
Variances detected in Load schedule.

  LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.
   Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)
 TRANS_TYPE: FINAL
 LOAD_ID: PGE4
 MKT_TYPE: 2
 TRANS_DATE: 4/22/01
 SC_ID: EPMI

');
INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com', 'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com', 'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you,
but others) after our phone call is a result of the week. I"m seeing Glen at

11:15....talk to you');
INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', '
This week"s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebytztoolzprint.jpg');
  COMMIT;
 }
} {}

###
Everything above just builds an interesting test database. The actual
tests come after this comment.
###

do_test fts2c-1.2 {
 execsql {
  SELECT rowid FROM email WHERE email MATCH 'mark'
 }
} {6 17 25 38 40 42 73 74}
do_test fts2c-1.3 {
 execsql {
  SELECT rowid FROM email WHERE email MATCH 'susan'
 }
} {24 40}
do_test fts2c-1.4 {
 execsql {
  SELECT rowid FROM email WHERE email MATCH 'mark susan'
 }
} {40}
do_test fts2c-1.5 {
 execsql {
  SELECT rowid FROM email WHERE email MATCH 'susan mark'
 }
} {40}
do_test fts2c-1.6 {
 execsql {
  SELECT rowid FROM email WHERE email MATCH '"mark susan"'

```
 }
} {}
do_test fts2c-1.7 {
 execsql {
   SELECT rowid FROM email WHERE email MATCH 'mark -susan'
 }
} {6 17 25 38 42 73 74}
do_test fts2c-1.8 {
 execsql {
   SELECT rowid FROM email WHERE email MATCH '-mark susan'
 }
} {24}
do_test fts2c-1.9 {
 execsql {
   SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
 }
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column.  In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts2c-2.1 {
 execsql {
   SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
 }
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts2c-2.2 {
 execsql {
   SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
 }
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts2c-2.3 {
 execsql {
   SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
 }
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts2c-2.4 {
 execsql {
   SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
 }
} {20 {2 0 42 3 2 1 54 8}}
do_test fts2c-2.5 {
 execsql {
```

```
  SELECT rowid, offsets(email) FROM email
   WHERE body MATCH 'gas reminder'
 }
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

# Document 32 contains 5 instances of the world "child".  But only
# 3 of them are paired with "product".  Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts2c-3.1 {
 execsql {
  SELECT rowid, offsets(email) FROM email
   WHERE body MATCH 'child product' AND +rowid=32
 }
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts2c-3.2 {
 execsql {
  SELECT rowid, offsets(email) FROM email
   WHERE body MATCH '"child product"'
 }
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

# Snippet generator tests
#
do_test fts2c-4.1 {
 execsql {
  SELECT snippet(email) FROM email
   WHERE email MATCH 'subject:gas reminder'
 }
} {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts2c-4.2 {
 execsql {
  SELECT snippet(email) FROM email
   WHERE email MATCH 'christmas candlelight'
 }
} {{<b>...</b> place.? What do you think about going here <b>Christmas</b>
eve?? They have an 11:00 a.m. service and a <b>candlelight</b> service at 5:00 p.m.,
among others. <b>...</b>}}

do_test fts2c-4.3 {
 execsql {
  SELECT snippet(email) FROM email
   WHERE email MATCH 'deal sheet potential reuse'
 }
} {{EOL-Accenture <b>Deal</b> <b>Sheet</b> <b>...</b> intent
   Review Enron asset base for <b>potential</b> <b>reuse</b>/ licensing
   Contract negotiations <b>...</b>}}
do_test fts2c-4.4 {
```

```
 execsql {
   SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
 }
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>>  intent
    Review Enron asset base for <<<potential>>> <<<reuse>>>/ licensing
    Contract negotiations  }}
do_test fts2c-4.5 {
 execsql {
   SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'first things'
 }
} {{Re: <<<First>>> Polish Deal!  Congrats!  <<<Things>>> seem to be building rapidly now on the  }}
do_test fts2c-4.6 {
 execsql {
   SELECT snippet(email) FROM email
    WHERE email MATCH 'chris is here'
 }
} {{<b>chris</b>.germany@enron.com <b>...</b> Sounds good to me.  I bet this <b>is</b> next to the Warick??
Hotel. <b>...</b> place.? What do you think about going <b>here</b> Christmas
eve?? They have an 11:00 a.m. <b>...</b>}}
do_test fts2c-4.7 {
 execsql {
   SELECT snippet(email) FROM email
    WHERE email MATCH '"pursuant to"'
 }
} {{Erin:

<b>Pursuant</b> <b>to</b> your request, attached are the Schedule to <b>...</b>}}
do_test fts2c-4.8 {
 execsql {
   SELECT snippet(email) FROM email
    WHERE email MATCH 'ancillary load davis'
 }
} {{pete.<b>davis</b>@enron.com <b>...</b> Start Date: 4/22/01; HourAhead hour: 3;  No <b>ancillary</b>
schedules awarded.
Variances detected.
Variances detected in <b>Load</b> schedule.

   LOG MESSAGES:

PARSING <b>...</b>}}

# Combinations of AND and OR operators:
#
do_test fts2c-5.1 {
 execsql {
   SELECT snippet(email) FROM email
```

```
   WHERE email MATCH 'questar enron OR com'
 }
} {{matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:

31 Keystone Receipts
15 <b>Questar</b> Pipeline
40 Rockies Production
22 West_2 <b>...</b>}}
do_test fts2c-5.2 {
 execsql {
  SELECT snippet(email) FROM email
   WHERE email MATCH 'enron OR com questar'
 }
} {{matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:

31 Keystone Receipts
15 <b>Questar</b> Pipeline
40 Rockies Production
22 West_2 <b>...</b>}}

finish_test
```

Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-src-3071700.zip-cosi-expand-archive-cheW8kUH/sqlite-src-3071700/test/fts2c.test
No license file was found, but licenses were detected in source scan.

SQLite core and like the SQLite core are in the public domain. The
The TH3 test harness is a set of proprietary tests, written in

Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-doc-3071700.zip-cosi-expand-archive-r9EckcaZ/sqlite-doc-3071700/testing.html
No license file was found, but licenses were detected in source scan.

SQLite itself is in the public domain and
can be used for any purpose. But TH3 is proprietary and requires a license.

Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-doc-3071700.zip-cosi-expand-archive-r9EckcaZ/sqlite-doc-3071700/th3.html
No license file was found, but licenses were detected in source scan.

public domain.

Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-doc-3071700.zip-cosi-expand-archive-r9EckcaZ/sqlite-doc-3071700/index.html

No license file was found, but licenses were detected in source scan.

{string currentfile exch readstring pop}executeonly def

Found in path(s):
* /
No license file was found, but licenses were detected in source scan.

```
# 2012 May 21
#
# The author disclaims copyright to this source code.  In place of
# a legal notice, here is a blessing:
#
#    May you do good and not evil.
#    May you find forgiveness for yourself and forgive others.
#    May you share freely, never taking more than you give.
#
# NB:  Portions of this file are extracted from open-source projects
# covered by permissive licenses.  Use of this file for testing is clearly
# allowed.  However, do not incorporate the text of this one file into
# end-products without checking the licenses on the open-source projects
# from which this code was extracted.  This warning applies to this one
# file only - not the bulk of the SQLite source code and tests.
#
#***************************************************************************
#
# This file contains large and complex schemas obtained from open-source
# software projects.  The schemas are parsed just to make sure that nothing
# breaks in the parser logic.
#
# These tests merely verify that the parse occurs without error.
# No attempt is made to verify correct operation of the resulting schema
# and statements.
#

set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Schema and query extracted from Skrooge.org.
#
do_test fuzz-oss1-skrooge {
 db eval {
CREATE TABLE parameters (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_uuid_parent
TEXT NOT NULL DEFAULT '',t_name TEXT NOT NULL,t_value TEXT NOT NULL DEFAULT '',b_blob
BLOB,d_lastmodifdate DATE NOT NULL DEFAULT CURRENT_TIMESTAMP,i_tmp INTEGER NOT NULL
DEFAULT 0);
CREATE TABLE doctransaction (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT
NOT NULL,t_mode VARCHAR(1) DEFAULT 'U' CHECK (t_mode IN ('U', 'R')),d_date DATE NOT
```

NULL,t_savestep VARCHAR(1) DEFAULT 'N' CHECK (t_savestep IN ('Y', 'N')),i_parent INTEGER, t_refreshviews VARCHAR(1) DEFAULT 'Y' CHECK (t_refreshviews IN ('Y', 'N')));
CREATE TABLE doctransactionitem (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rd_doctransaction_id INTEGER NOT NULL,i_object_id INTEGER NOT NULL,t_object_table TEXT NOT NULL,t_action VARCHAR(1) DEFAULT 'I' CHECK (t_action IN ('I', 'U', 'D')),t_sqlorder TEXT NOT NULL DEFAULT '');
CREATE TABLE doctransactionmsg (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rd_doctransaction_id INTEGER NOT NULL,t_message TEXT NOT NULL DEFAULT '',t_popup VARCHAR(1) DEFAULT 'Y' CHECK (t_popup IN ('Y', 'N')));
CREATE TABLE unit(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL,t_symbol TEXT NOT NULL DEFAULT '',t_country TEXT NOT NULL DEFAULT '',t_type VARCHAR(1) NOT NULL DEFAULT 'C' CHECK (t_type IN ('1', '2', 'C', 'S', 'I', 'O')),t_internet_code TEXT NOT NULL DEFAULT '',i_nbdecimal INT NOT NULL DEFAULT 2,rd_unit_id INTEGER NOT NULL DEFAULT 0, t_source TEXT NOT NULL DEFAULT '');
CREATE TABLE unitvalue(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rd_unit_id INTEGER NOT NULL,d_date DATE NOT NULL,f_quantity FLOAT NOT NULL CHECK (f_quantity>=0));
CREATE TABLE bank (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL DEFAULT '',t_bank_number TEXT NOT NULL DEFAULT '',t_icon TEXT NOT NULL DEFAULT '');
CREATE TABLE interest(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rd_account_id INTEGER NOT NULL,d_date DATE NOT NULL,f_rate FLOAT NOT NULL CHECK (f_rate>=0),t_income_value_date_mode VARCHAR(1) NOT NULL DEFAULT 'F' CHECK (t_income_value_date_mode IN ('F', '0', '1', '2', '3', '4', '5')),t_expenditure_value_date_mode VARCHAR(1) NOT NULL DEFAULT 'F' CHECK (t_expenditure_value_date_mode IN ('F', '0', '1', '2', '3', '4', '5')),t_base VARCHAR(3) NOT NULL DEFAULT '24' CHECK (t_base IN ('24', '360', '365')));
CREATE TABLE operation(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,i_group_id INTEGER NOT NULL DEFAULT 0,i_number INTEGER DEFAULT 0 CHECK (i_number>=0),d_date DATE NOT NULL DEFAULT '0000-00-00',rd_account_id INTEGER NOT NULL,t_mode TEXT NOT NULL DEFAULT '',r_payee_id INTEGER NOT NULL DEFAULT 0,t_comment TEXT NOT NULL DEFAULT '',rc_unit_id INTEGER NOT NULL,t_status VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_status IN ('N', 'P', 'Y')),t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')),t_imported VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_imported IN ('Y', 'N', 'P', 'T')),t_template VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_template IN ('Y', 'N')),t_import_id TEXT NOT NULL DEFAULT '',i_tmp INTEGER NOT NULL DEFAULT 0,r_recurrentoperation_id INTEGER NOT NULL DEFAULT 0);
CREATE TABLE operationbalance(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,f_balance FLOAT NOT NULL DEFAULT 0,r_operation_id INTEGER NOT NULL);
CREATE TABLE refund (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL DEFAULT '',t_comment TEXT NOT NULL DEFAULT '',t_close VARCHAR(1) DEFAULT 'N' CHECK (t_close IN ('Y', 'N')));
CREATE TABLE payee (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL DEFAULT '',t_address TEXT NOT NULL DEFAULT '', t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')));
CREATE TABLE suboperation(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_comment TEXT NOT NULL DEFAULT '',rd_operation_id INTEGER NOT NULL,r_category_id INTEGER NOT NULL DEFAULT 0,f_value FLOAT NOT NULL DEFAULT 0.0,i_tmp INTEGER NOT NULL DEFAULT 0,r_refund_id INTEGER NOT NULL DEFAULT 0, t_formula TEXT NOT NULL DEFAULT '');
CREATE TABLE rule (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_description TEXT NOT NULL DEFAULT '',t_definition TEXT NOT NULL DEFAULT '',t_action_description TEXT NOT NULL DEFAULT '',t_action_definition TEXT NOT NULL DEFAULT '',t_action_type VARCHAR(1) DEFAULT 'S'

```
CHECK (t_action_type IN ('S', 'U', 'A')),t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK
(t_bookmarked IN ('Y', 'N')),f_sortorder FLOAT);
CREATE TABLE budget (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rc_category_id
INTEGER NOT NULL DEFAULT 0,t_including_subcategories TEXT NOT NULL DEFAULT 'N' CHECK
(t_including_subcategories IN ('Y', 'N')),f_budgeted FLOAT NOT NULL DEFAULT 0.0,f_budgeted_modified
FLOAT NOT NULL DEFAULT 0.0,f_transferred FLOAT NOT NULL DEFAULT 0.0,i_year INTEGER NOT
NULL DEFAULT 2010,i_month INTEGER NOT NULL DEFAULT 0 CHECK (i_month>=0 AND
i_month<=12));
CREATE TABLE budgetcategory(id INTEGER NOT NULL DEFAULT 0,id_category INTEGER NOT NULL
DEFAULT 0);
CREATE TABLE budgetrule (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rc_category_id
INTEGER NOT NULL DEFAULT 0,t_category_condition TEXT NOT NULL DEFAULT 'Y' CHECK
(t_category_condition IN ('Y', 'N')),t_year_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_year_condition
IN ('Y', 'N')),i_year INTEGER NOT NULL DEFAULT 2010,i_month INTEGER NOT NULL DEFAULT 0
CHECK (i_month>=0 AND i_month<=12),t_month_condition TEXT NOT NULL DEFAULT 'Y' CHECK
(t_month_condition IN ('Y', 'N')),i_condition INTEGER NOT NULL DEFAULT 0 CHECK (i_condition IN (-
1,0,1)),f_quantity FLOAT NOT NULL DEFAULT 0.0,t_absolute TEXT NOT NULL DEFAULT 'Y' CHECK
(t_absolute IN ('Y', 'N')),rc_category_id_target INTEGER NOT NULL DEFAULT 0,t_category_target TEXT NOT
NULL DEFAULT 'Y' CHECK (t_category_target IN ('Y', 'N')),t_rule TEXT NOT NULL DEFAULT 'N' CHECK
(t_rule IN ('N', 'C', 'Y')));
CREATE TABLE "recurrentoperation" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,d_date
DATE NOT NULL DEFAULT '0000-00-00',rd_operation_id INTEGER NOT NULL,i_period_increment
INTEGER NOT NULL DEFAULT 1 CHECK (i_period_increment>=0),t_period_unit TEXT NOT NULL
DEFAULT 'M' CHECK (t_period_unit IN ('D', 'W', 'M', 'Y')),t_auto_write VARCHAR(1) DEFAULT 'Y' CHECK
(t_auto_write IN ('Y', 'N')),i_auto_write_days INTEGER NOT NULL DEFAULT 5 CHECK
(i_auto_write_days>=0),t_warn VARCHAR(1) DEFAULT 'Y' CHECK (t_warn IN ('Y', 'N')),i_warn_days
INTEGER NOT NULL DEFAULT 5 CHECK (i_warn_days>=0),t_times VARCHAR(1) DEFAULT 'N' CHECK
(t_times IN ('Y', 'N')),i_nb_times INTEGER NOT NULL DEFAULT 1 CHECK (i_nb_times>=0));
CREATE TABLE "category" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT
NOT NULL DEFAULT '' CHECK (t_name NOT LIKE '% > %'),t_fullname TEXT,rd_category_id
INT,t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')));
CREATE TABLE "account"(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT
NULL,t_number TEXT NOT NULL DEFAULT '',t_agency_number TEXT NOT NULL DEFAULT
'',t_agency_address TEXT NOT NULL DEFAULT '',t_comment TEXT NOT NULL DEFAULT '',t_close
VARCHAR(1) DEFAULT 'N' CHECK (t_close IN ('Y', 'N')),t_type VARCHAR(1) NOT NULL DEFAULT 'C'
CHECK (t_type IN ('C', 'D', 'A', 'I', 'L', 'W', 'O')),t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK
(t_bookmarked IN ('Y', 'N')),rd_bank_id INTEGER NOT NULL);
CREATE TABLE "node" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT
NULL DEFAULT '' CHECK (t_name NOT LIKE '% > %'),t_fullname TEXT,t_icon TEXT DEFAULT
'',f_sortorder FLOAT,t_autostart VARCHAR(1) DEFAULT 'N' CHECK (t_autostart IN ('Y', 'N')),t_data
TEXT,rd_node_id INT CONSTRAINT fk_id REFERENCES node(id) ON DELETE CASCADE);
CREATE TABLE vm_category_display_tmp(
 id INT,
 t_name TEXT,
 t_fullname TEXT,
 rd_category_id INT,
 t_bookmarked TEXT,
 i_NBOPERATIONS,
```

```
 f_REALCURRENTAMOUNT
);
CREATE TABLE vm_budget_tmp(
 id INT,
 rc_category_id INT,
 t_including_subcategories TEXT,
 f_budgeted REAL,
 f_budgeted_modified REAL,
 f_transferred REAL,
 i_year INT,
 i_month INT,
 t_CATEGORY,
 t_PERIOD,
 f_CURRENTAMOUNT,
 t_RULES
);
CREATE INDEX idx_doctransaction_parent ON doctransaction (i_parent);
CREATE INDEX idx_doctransactionitem_i_object_id ON doctransactionitem (i_object_id);
CREATE INDEX idx_doctransactionitem_t_object_table ON doctransactionitem (t_object_table);
CREATE INDEX idx_doctransactionitem_t_action ON doctransactionitem (t_action);
CREATE INDEX idx_doctransactionitem_rd_doctransaction_id ON doctransactionitem (rd_doctransaction_id);
CREATE INDEX idx_doctransactionitem_optimization ON doctransactionitem (rd_doctransaction_id, i_object_id,
t_object_table, t_action, id);
CREATE INDEX idx_unit_unit_id ON unitvalue(rd_unit_id);
CREATE INDEX idx_account_bank_id ON account(rd_bank_id);
CREATE INDEX idx_account_type ON account(t_type);
CREATE INDEX idx_category_category_id ON category(rd_category_id);
CREATE INDEX idx_category_t_fullname ON category(t_fullname);
CREATE INDEX idx_operation_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_tmp1_found_transfert ON operation (rc_unit_id, d_date);
CREATE INDEX idx_operation_grouped_operation_id ON operation (i_group_id);
CREATE INDEX idx_operation_i_number ON operation (i_number);
CREATE INDEX idx_operation_i_tmp ON operation (i_tmp);
CREATE INDEX idx_operation_rd_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_rc_unit_id ON operation (rc_unit_id);
CREATE INDEX idx_operation_t_status ON operation (t_status);
CREATE INDEX idx_operation_t_import_id ON operation (t_import_id);
CREATE INDEX idx_operation_t_template ON operation (t_template);
CREATE INDEX idx_operation_d_date ON operation (d_date);
CREATE INDEX idx_operationbalance_operation_id ON operationbalance (r_operation_id);
CREATE INDEX idx_suboperation_operation_id ON suboperation (rd_operation_id);
CREATE INDEX idx_suboperation_i_tmp ON suboperation (i_tmp);
CREATE INDEX idx_suboperation_category_id ON suboperation (r_category_id);
CREATE INDEX idx_suboperation_refund_id_id ON suboperation (r_refund_id);
CREATE INDEX idx_recurrentoperation_rd_operation_id ON recurrentoperation (rd_operation_id);
CREATE INDEX idx_refund_close ON refund(t_close);
CREATE INDEX idx_interest_account_id ON interest (rd_account_id);
CREATE INDEX idx_rule_action_type ON rule(t_action_type);
```

```
CREATE INDEX idx_budget_category_id ON budget(rc_category_id);
CREATE INDEX idx_budgetcategory_id ON budgetcategory (id);
CREATE INDEX idx_budgetcategory_id_category ON budgetcategory (id_category);
CREATE UNIQUE INDEX uidx_parameters_uuid_parent_name ON parameters (t_uuid_parent, t_name);
CREATE UNIQUE INDEX uidx_node_parent_id_name ON node(t_name,rd_node_id);
CREATE UNIQUE INDEX uidx_node_fullname ON node(t_fullname);
CREATE UNIQUE INDEX uidx_unit_name ON unit(t_name);
CREATE UNIQUE INDEX uidx_unit_symbol ON unit(t_symbol);
CREATE UNIQUE INDEX uidx_unitvalue ON unitvalue(d_date,rd_unit_id);
CREATE UNIQUE INDEX uidx_bank_name ON bank(t_name);
CREATE UNIQUE INDEX uidx_account_name ON account(t_name);
CREATE UNIQUE INDEX uidx_category_parent_id_name ON category(t_name,rd_category_id);
CREATE UNIQUE INDEX uidx_category_fullname ON  category(t_fullname);
CREATE UNIQUE INDEX uidx_refund_name ON refund(t_name);
CREATE UNIQUE INDEX uidx_payee_name ON payee(t_name);
CREATE UNIQUE INDEX uidx_interest ON interest(d_date,rd_account_id);
CREATE UNIQUE INDEX uidx_budget ON budget(i_year,i_month, rc_category_id);
CREATE VIEW v_node AS SELECT * from node;
CREATE VIEW v_node_displayname AS SELECT *, t_fullname AS t_displayname from node;
CREATE VIEW v_parameters_displayname AS SELECT *, t_name AS t_displayname from parameters;
CREATE TRIGGER fkdc_parameters_parameters_uuid BEFORE DELETE ON parameters FOR EACH ROW
BEGIN     DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'parameters'; END;
CREATE TRIGGER fkdc_node_parameters_uuid BEFORE DELETE ON node FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'node'; END;
CREATE TRIGGER cpt_node_fullname1 AFTER INSERT ON node BEGIN UPDATE node SET
t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id='' OR new.rd_node_id=0 THEN
new.t_name ELSE (SELECT c.t_fullname from node c where c.id=new.rd_node_id)||' > '||new.t_name END
WHERE id=new.id;END;
CREATE TRIGGER cpt_node_fullname2 AFTER UPDATE OF t_name, rd_node_id ON node BEGIN UPDATE
node SET t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id='' OR new.rd_node_id=0
THEN new.t_name ELSE (SELECT c.t_fullname from node c where c.id=new.rd_node_id)||' > '||new.t_name END
WHERE id=new.id;UPDATE node SET t_name=t_name WHERE rd_node_id=new.id;END;
CREATE TRIGGER fki_account_bank_rd_bank_id_id BEFORE INSERT ON account FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (bank est utilis par account)
Nom de la contrainte: fki_account_bank_rd_bank_id_id')   WHERE NEW.rd_bank_id!=0 AND
NEW.rd_bank_id!='' AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
CREATE TRIGGER fku_account_bank_rd_bank_id_id BEFORE UPDATE ON account FOR EACH ROW
BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (bank est utilis par account)
Nom de la contrainte: fku_account_bank_rd_bank_id_id')       WHERE NEW.rd_bank_id!=0 AND
NEW.rd_bank_id!='' AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
CREATE TRIGGER fkdc_bank_account_id_rd_bank_id BEFORE DELETE ON bank FOR EACH ROW BEGIN
DELETE FROM account WHERE account.rd_bank_id = OLD.id; END;
CREATE TRIGGER fki_budget_category_rc_category_id_id BEFORE INSERT ON budget FOR EACH ROW
BEGIN   SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (category est utilis par budget)
Nom de la contrainte: fki_budget_category_rc_category_id_id')   WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budget_category_rc_category_id_id BEFORE UPDATE ON budget FOR EACH ROW
BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budget)
```

Nom de la contrainte: fku_budget_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budget_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par budget)
Nom de la contrainte: fkd_budget_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM budget WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_id BEFORE INSERT ON budgetrule FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (category est utilis par budgetrule)
Nom de la contrainte: fki_budgetrule_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budgetrule)
Nom de la contrainte: fku_budgetrule_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par budgetrule)
Nom de la contrainte: fkd_budgetrule_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_target_id BEFORE INSERT ON budgetrule FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (category est utilis par budgetrule)
Nom de la contrainte: fki_budgetrule_category_rc_category_id_target_id') WHERE NEW.rc_category_id_target!=0 AND NEW.rc_category_id_target!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id_target) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_target_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budgetrule)
Nom de la contrainte: fku_budgetrule_category_rc_category_id_target_id') WHERE NEW.rc_category_id_target!=0 AND NEW.rc_category_id_target!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id_target) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_target_id BEFORE DELETE ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par budgetrule)
Nom de la contrainte: fkd_budgetrule_category_rc_category_id_target_id') WHERE (SELECT rc_category_id_target FROM budgetrule WHERE rc_category_id_target = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_category_category_rd_category_id_id BEFORE INSERT ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (category est utilis par category)
Nom de la contrainte: fki_category_category_rd_category_id_id') WHERE NEW.rd_category_id!=0 AND NEW.rd_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fku_category_category_rd_category_id_id BEFORE UPDATE ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par category)
Nom de la contrainte: fku_category_category_rd_category_id_id') WHERE NEW.rd_category_id!=0 AND NEW.rd_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fkdc_category_category_id_rd_category_id BEFORE DELETE ON category FOR EACH ROW BEGIN DELETE FROM category WHERE category.rd_category_id = OLD.id; END;
CREATE TRIGGER fki_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON doctransactionitem FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (doctransaction est utilis par doctransactionitem)
Nom de la contrainte: fki_doctransactionitem_doctransaction_rd_doctransaction_id_id') WHERE

NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fku_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionitem FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilis par doctransactionitem)
Nom de la contrainte: fku_doctransactionitem_doctransaction_rd_doctransaction_id_id') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fkdc_doctransaction_doctransactionitem_id_rd_doctransaction_id BEFORE DELETE ON doctransaction FOR EACH ROW BEGIN DELETE FROM doctransactionitem WHERE doctransactionitem.rd_doctransaction_id = OLD.id; END;
CREATE TRIGGER fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON doctransactionmsg FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (doctransaction est utilis par doctransactionmsg)
Nom de la contrainte: fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fku_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionmsg FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilis par doctransactionmsg)
Nom de la contrainte: fku_doctransactionmsg_doctransaction_rd_doctransaction_id_id') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fkdc_doctransaction_doctransactionmsg_id_rd_doctransaction_id BEFORE DELETE ON doctransaction FOR EACH ROW BEGIN DELETE FROM doctransactionmsg WHERE doctransactionmsg.rd_doctransaction_id = OLD.id; END;
CREATE TRIGGER fki_interest_account_rd_account_id_id BEFORE INSERT ON interest FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (account est utilis par interest)
Nom de la contrainte: fki_interest_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_interest_account_rd_account_id_id BEFORE UPDATE ON interest FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilis par interest)
Nom de la contrainte: fku_interest_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fkdc_account_interest_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN DELETE FROM interest WHERE interest.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_node_node_rd_node_id_id BEFORE INSERT ON node FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (node est utilis par node)
Nom de la contrainte: fki_node_node_rd_node_id_id') WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id!='' AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fku_node_node_rd_node_id_id BEFORE UPDATE ON node FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (node est utilis par node)
Nom de la contrainte: fku_node_node_rd_node_id_id') WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id!='' AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fkdc_node_node_id_rd_node_id BEFORE DELETE ON node FOR EACH ROW BEGIN DELETE FROM node WHERE node.rd_node_id = OLD.id; END;
CREATE TRIGGER fki_operation_account_rd_account_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (account est utilis par operation)

Nom de la contrainte: fki_operation_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_operation_account_rd_account_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilis par operation)
Nom de la contrainte: fku_operation_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fkdc_account_operation_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN DELETE FROM operation WHERE operation.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_operation_payee_r_payee_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (payee est utilis par operation)
Nom de la contrainte: fki_operation_payee_r_payee_id_id') WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id!='' AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fku_operation_payee_r_payee_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (payee est utilis par operation)
Nom de la contrainte: fku_operation_payee_r_payee_id_id') WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id!='' AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fkd_operation_payee_r_payee_id_id BEFORE DELETE ON payee FOR EACH ROW BEGIN UPDATE operation SET r_payee_id=0 WHERE r_payee_id=OLD.id; END;
CREATE TRIGGER fki_operation_unit_rc_unit_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (unit est utilis par operation)
Nom de la contrainte: fki_operation_unit_rc_unit_id_id') WHERE NEW.rc_unit_id!=0 AND NEW.rc_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;
CREATE TRIGGER fku_operation_unit_rc_unit_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par operation)
Nom de la contrainte: fku_operation_unit_rc_unit_id_id') WHERE NEW.rc_unit_id!=0 AND NEW.rc_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;
CREATE TRIGGER fkd_operation_unit_rc_unit_id_id BEFORE DELETE ON unit FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (unit est utilis par operation)
Nom de la contrainte: fkd_operation_unit_rc_unit_id_id') WHERE (SELECT rc_unit_id FROM operation WHERE rc_unit_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (recurrentoperation est utilis par operation)
Nom de la contrainte: fki_operation_recurrentoperation_r_recurrentoperation_id_id') WHERE NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!='' AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fku_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (recurrentoperation est utilis par operation)
Nom de la contrainte: fku_operation_recurrentoperation_r_recurrentoperation_id_id') WHERE NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!='' AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fkd_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE DELETE ON recurrentoperation FOR EACH ROW BEGIN UPDATE operation SET r_recurrentoperation_id=0 WHERE r_recurrentoperation_id=OLD.id; END;
CREATE TRIGGER fki_operationbalance_operation_r_operation_id_id BEFORE INSERT ON operationbalance FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (operation est utilis par operationbalance)

Nom de la contrainte: fki_operationbalance_operation_r_operation_id_id') WHERE NEW.r_operation_id!=0 AND NEW.r_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
CREATE TRIGGER fku_operationbalance_operation_r_operation_id_id BEFORE UPDATE ON operationbalance FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par operationbalance)
Nom de la contrainte: fku_operationbalance_operation_r_operation_id_id') WHERE NEW.r_operation_id!=0 AND NEW.r_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
CREATE TRIGGER fkd_operationbalance_operation_r_operation_id_id BEFORE DELETE ON operation FOR EACH ROW BEGIN UPDATE operationbalance SET r_operation_id=0 WHERE r_operation_id=OLD.id; END;
CREATE TRIGGER fki_recurrentoperation_operation_rd_operation_id_id BEFORE INSERT ON recurrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (operation est utilis par recurrentoperation)
Nom de la contrainte: fki_recurrentoperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fku_recurrentoperation_operation_rd_operation_id_id BEFORE UPDATE ON recurrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par recurrentoperation)
Nom de la contrainte: fku_recurrentoperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_recurrentoperation_id_rd_operation_id BEFORE DELETE ON operation FOR EACH ROW BEGIN DELETE FROM recurrentoperation WHERE recurrentoperation.rd_operation_id = OLD.id; END;
CREATE TRIGGER fki_suboperation_operation_rd_operation_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (operation est utilis par suboperation)
Nom de la contrainte: fki_suboperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fku_suboperation_operation_rd_operation_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par suboperation)
Nom de la contrainte: fku_suboperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_suboperation_id_rd_operation_id BEFORE DELETE ON operation FOR EACH ROW BEGIN DELETE FROM suboperation WHERE suboperation.rd_operation_id = OLD.id; END;
CREATE TRIGGER fki_suboperation_category_r_category_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (category est utilis par suboperation)
Nom de la contrainte: fki_suboperation_category_r_category_id_id') WHERE NEW.r_category_id!=0 AND NEW.r_category_id!='' AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;
CREATE TRIGGER fku_suboperation_category_r_category_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par suboperation)
Nom de la contrainte: fku_suboperation_category_r_category_id_id') WHERE NEW.r_category_id!=0 AND

NEW.r_category_id!='' AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;
CREATE TRIGGER fkd_suboperation_category_r_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN UPDATE suboperation SET r_category_id=0 WHERE r_category_id=OLD.id; END;
CREATE TRIGGER fki_suboperation_refund_r_refund_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (refund est utilis par suboperation)
Nom de la contrainte: fki_suboperation_refund_r_refund_id_id') WHERE NEW.r_refund_id!=0 AND NEW.r_refund_id!='' AND (SELECT id FROM refund WHERE id = NEW.r_refund_id) IS NULL; END;
CREATE TRIGGER fku_suboperation_refund_r_refund_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (refund est utilis par suboperation)
Nom de la contrainte: fku_suboperation_refund_r_refund_id_id') WHERE NEW.r_refund_id!=0 AND NEW.r_refund_id!='' AND (SELECT id FROM refund WHERE id = NEW.r_refund_id) IS NULL; END;
CREATE TRIGGER fkd_suboperation_refund_r_refund_id_id BEFORE DELETE ON refund FOR EACH ROW BEGIN UPDATE suboperation SET r_refund_id=0 WHERE r_refund_id=OLD.id; END;
CREATE TRIGGER fki_unit_unit_rd_unit_id_id BEFORE INSERT ON unit FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (unit est utilis par unit)
Nom de la contrainte: fki_unit_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fku_unit_unit_rd_unit_id_id BEFORE UPDATE ON unit FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par unit)
Nom de la contrainte: fku_unit_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkdc_unit_unit_id_rd_unit_id BEFORE DELETE ON unit FOR EACH ROW BEGIN DELETE FROM unit WHERE unit.rd_unit_id = OLD.id; END;
CREATE TRIGGER fki_unitvalue_unit_rd_unit_id_id BEFORE INSERT ON unitvalue FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (unit est utilis par unitvalue)
Nom de la contrainte: fki_unitvalue_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fku_unitvalue_unit_rd_unit_id_id BEFORE UPDATE ON unitvalue FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par unitvalue)
Nom de la contrainte: fku_unitvalue_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkdc_unit_unitvalue_id_rd_unit_id BEFORE DELETE ON unit FOR EACH ROW BEGIN DELETE FROM unitvalue WHERE unitvalue.rd_unit_id = OLD.id; END;
CREATE TRIGGER fkd_vm_budget_tmp_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par vm_budget_tmp)
Nom de la contrainte: fkd_vm_budget_tmp_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM vm_budget_tmp WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fkdc_category_vm_category_display_tmp_id_rd_category_id BEFORE DELETE ON category FOR EACH ROW BEGIN DELETE FROM vm_category_display_tmp WHERE vm_category_display_tmp.rd_category_id = OLD.id; END;
CREATE VIEW v_unit_displayname AS SELECT *, t_name||' ('||t_symbol||')' AS t_displayname FROM unit;
CREATE VIEW v_unit_tmp1 AS SELECT *,(SELECT count(*) FROM unitvalue s WHERE s.rd_unit_id=unit.id) AS i_NBVALUES, (CASE WHEN unit.rd_unit_id=0 THEN '' ELSE (SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=unit.rd_unit_id) END) AS t_UNIT,(CASE unit.t_type WHEN '1' THEN 'Monnaie principale' WHEN '2' THEN 'Monnaie secondaire' WHEN 'C' THEN 'Monnaie' WHEN 'S' THEN 'Action' WHEN 'I' THEN 'Indice' ELSE 'Objet' END) AS t_TYPENLS, (SELECT MIN(s.d_date) FROM unitvalue s WHERE s.rd_unit_id=unit.id) AS d_MINDATE, (SELECT MAX(s.d_date)

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FROM  unitvalue s WHERE s.rd_unit_id=unit.id) AS d_MAXDATE from unit;
CREATE VIEW v_unit_tmp2 AS SELECT *,CASE WHEN v_unit_tmp1.t_type='1' THEN 1 ELSE
IFNULL((SELECT s.f_quantity FROM unitvalue s WHERE s.rd_unit_id=v_unit_tmp1.id AND
s.d_date=v_unit_tmp1.d_MAXDATE),1) END AS f_LASTVALUE from v_unit_tmp1;
CREATE VIEW v_unit AS SELECT *,v_unit_tmp2.f_LASTVALUE*IFNULL((SELECT s2.f_LASTVALUE
FROM v_unit_tmp2 s2 WHERE s2.id=v_unit_tmp2.rd_unit_id) , 1) AS f_CURRENTAMOUNT from
v_unit_tmp2;
CREATE VIEW v_unitvalue_displayname AS SELECT *, (SELECT t_displayname FROM v_unit_displayname
WHERE unitvalue.rd_unit_id=v_unit_displayname.id)||' '||STRFTIME('%d/%m/%Y',d_date) AS t_displayname
FROM unitvalue;
CREATE VIEW v_unitvalue AS SELECT * FROM unitvalue;
CREATE VIEW v_suboperation AS SELECT * FROM suboperation;
CREATE VIEW v_operation_numbers AS SELECT DISTINCT i_number, rd_account_id FROM operation;
CREATE VIEW v_operation_next_numbers AS SELECT T1.i_number+1 AS i_number FROM
v_operation_numbers AS T1 LEFT OUTER JOIN v_operation_numbers T2 ON
T2.rd_account_id=T1.rd_account_id AND T2.i_number=T1.i_number+1 WHERE T1.i_number!=0 AND
(T2.i_number IS NULL) ORDER BY T1.i_number;
CREATE VIEW v_operation_tmp1 AS SELECT *,(SELECT t_name FROM payee s WHERE
s.id=operation.r_payee_id) AS t_PAYEE,(SELECT TOTAL(s.f_value) FROM suboperation s WHERE
s.rd_operation_id=operation.ID) AS f_QUANTITY,(SELECT count(*) FROM suboperation s WHERE
s.rd_operation_id=operation.ID) AS i_NBSUBCATEGORY FROM operation;
CREATE VIEW v_operation AS SELECT *,(SELECT s.id FROM suboperation s WHERE
s.rd_operation_id=v_operation_tmp1.id AND ABS(s.f_value)=(SELECT MAX(ABS(s2.f_value)) FROM
suboperation s2 WHERE s2.rd_operation_id=v_operation_tmp1.id)) AS i_MOSTIMPSUBOP,((SELECT
s.f_CURRENTAMOUNT FROM v_unit s WHERE
s.id=v_operation_tmp1.rc_unit_id)*v_operation_tmp1.f_QUANTITY) AS f_CURRENTAMOUNT, (CASE WHEN
v_operation_tmp1.i_group_id<>0 AND EXISTS (SELECT 1 FROM account a WHERE
v_operation_tmp1.rd_account_id=a.id AND a.t_type<>'L') AND EXISTS (SELECT 1 FROM v_operation_tmp1
op2, account a WHERE op2.i_group_id=v_operation_tmp1.i_group_id AND op2.rd_account_id=a.id AND
a.t_type<>'L' AND op2.rc_unit_id=v_operation_tmp1.rc_unit_id AND op2.f_QUANTITY=-
v_operation_tmp1.f_QUANTITY) THEN 'Y' ELSE 'N' END) AS t_TRANSFER FROM v_operation_tmp1;
CREATE VIEW v_operation_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||'
'||IFNULL(t_PAYEE,'')||' '||v_operation.f_CURRENTAMOUNT||' '||(SELECT (CASE WHEN s.t_symbol!='' THEN
s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=v_operation.rc_unit_id) AS t_displayname FROM
v_operation;
CREATE VIEW v_operation_delete AS SELECT *, (CASE WHEN t_status='Y' THEN 'Vous n''tes pas autoris
dtruire cette opration car en tat rapproch' END) t_delete_message FROM operation;
CREATE VIEW v_account AS SELECT *,(SELECT MAX(s.d_date) FROM  interest s WHERE
s.rd_account_id=account.id) AS d_MAXDATE, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation
s WHERE s.rd_account_id=account.id AND s.t_template='N') AS f_CURRENTAMOUNT FROM account;
CREATE VIEW v_account_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM operation WHERE
rd_account_id=account.id AND d_date<>'0000-00-00' AND t_template='N' AND t_status='Y') THEN 'Vous n''tes
pas autoris  dtruire ce compte car il contient des oprations rapproches' END) t_delete_message FROM account;
CREATE VIEW v_bank_displayname AS SELECT *, t_name AS t_displayname FROM bank;
CREATE VIEW v_account_displayname AS SELECT *, (SELECT t_displayname FROM v_bank_displayname
WHERE account.rd_bank_id=v_bank_displayname.id)||'-'||t_name AS t_displayname FROM account;
CREATE VIEW v_bank AS SELECT *,(SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_account s
WHERE s.rd_bank_id=bank.id) AS f_CURRENTAMOUNT FROM bank;
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CREATE VIEW v_category_displayname AS SELECT *, t_fullname AS t_displayname FROM category;
CREATE VIEW v_category AS SELECT * FROM category;
CREATE VIEW v_recurrentoperation AS SELECT *,i_period_increment||' '||(CASE t_period_unit WHEN 'Y'
THEN 'anne(s)' WHEN 'M' THEN 'mois' WHEN 'W' THEN 'semaine(s)' ELSE 'jour(s)' END) AS t_PERIODNLS
FROM recurrentoperation;
CREATE VIEW v_recurrentoperation_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||'
'||SUBSTR((SELECT t_displayname FROM v_operation_displayname WHERE
v_operation_displayname.id=v_recurrentoperation.rd_operation_id), 11) AS t_displayname FROM
v_recurrentoperation;
CREATE VIEW v_unitvalue_display AS SELECT *,IFNULL((SELECT (CASE WHEN s.t_symbol!='' THEN
s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=(SELECT s2.rd_unit_id FROM unit s2 WHERE
s2.id=unitvalue.rd_unit_id)),'') AS t_UNIT,STRFTIME('%Y-%m',unitvalue.d_date) AS
d_DATEMONTH,STRFTIME('%Y',unitvalue.d_date) AS d_DATEYEAR FROM unitvalue;
CREATE VIEW v_suboperation_display AS SELECT *,IFNULL((SELECT s.t_fullname FROM category s
WHERE s.id=v_suboperation.r_category_id),'') AS t_CATEGORY, IFNULL((SELECT s.t_name FROM refund s
WHERE s.id=v_suboperation.r_refund_id),'') AS t_REFUND, (CASE WHEN v_suboperation.f_value>=0 THEN
v_suboperation.f_value ELSE 0 END) AS f_VALUE_INCOME, (CASE WHEN v_suboperation.f_value<=0 THEN
v_suboperation.f_value ELSE 0 END) AS f_VALUE_EXPENSE FROM v_suboperation;
CREATE VIEW v_suboperation_displayname AS SELECT *, t_CATEGORY||' : '||f_value AS t_displayname
FROM v_suboperation_display;
CREATE VIEW v_operation_display_all AS SELECT *,(SELECT s.t_name FROM account s WHERE
s.id=v_operation.rd_account_id) AS t_ACCOUNT,(SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol
ELSE s.t_name END) FROM unit s WHERE s.id=v_operation.rc_unit_id) AS t_UNIT,(SELECT s.t_CATEGORY
FROM v_suboperation_display s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_CATEGORY,(SELECT
s.t_REFUND FROM v_suboperation_display s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS
t_REFUND,(CASE WHEN v_operation.f_QUANTITY<0 THEN '-' WHEN v_operation.f_QUANTITY=0 THEN ''
ELSE '+' END) AS t_TYPEEXPENSE, (CASE WHEN v_operation.f_QUANTITY<=0 THEN 'Dpense' ELSE
'Revenu' END) AS t_TYPEEXPENSENLS, STRFTIME('%Y-W%W',v_operation.d_date) AS
d_DATEWEEK,STRFTIME('%Y-%m',v_operation.d_date) AS
d_DATEMONTH,STRFTIME('%Y',v_operation.d_date)||'-Q'||(CASE WHEN
STRFTIME('%m',v_operation.d_date)<='03' THEN '1' WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN
'2' WHEN STRFTIME('%m',v_operation.d_date)<='09' THEN '3' ELSE '4' END) AS d_DATEQUARTER,
STRFTIME('%Y',v_operation.d_date)||'-S'||(CASE WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN '1'
ELSE '2' END) AS d_DATESEMESTER, STRFTIME('%Y',v_operation.d_date) AS d_DATEYEAR, (SELECT
count(*) FROM v_recurrentoperation s WHERE s.rd_operation_id=v_operation.id) AS i_NBRECURRENT,
(CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_QUANTITY ELSE 0 END) AS
f_QUANTITY_INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_QUANTITY
ELSE 0 END) AS f_QUANTITY_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE
o2.r_operation_id=v_operation.id ) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN
v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_INCOME, (CASE WHEN
v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS
f_CURRENTAMOUNT_EXPENSE FROM v_operation;
CREATE VIEW v_operation_template_display AS SELECT * FROM v_operation_display_all WHERE
t_template='Y';
CREATE VIEW v_operation_display AS SELECT * FROM v_operation_display_all WHERE d_date!='0000-00-
00' AND t_template='N';
CREATE VIEW v_unit_display AS SELECT *,(SELECT TOTAL(o.f_QUANTITY) FROM v_operation_display o
WHERE o.rc_unit_id=v_unit.id) AS f_QUANTITYOWNED FROM v_unit;
```

CREATE VIEW v_account_display AS SELECT (CASE t_type WHEN 'C' THEN 'Courant' WHEN 'D' THEN 'Carte de crdit' WHEN 'A' THEN 'Actif' WHEN 'I' THEN 'Investissement' WHEN 'W' THEN 'Portefeuille' WHEN 'L' THEN 'Prt' WHEN 'O' THEN 'Autre' END) AS t_TYPENLS,bank.t_name AS t_BANK,bank.t_bank_number AS t_BANK_NUMBER,bank.t_icon AS t_ICON,v_account.*,(v_account.f_CURRENTAMOUNT/(SELECT u.f_CURRENTAMOUNT FROM v_unit u, operation s WHERE u.id=s.rc_unit_id AND s.rd_account_id=v_account.id AND s.d_date='0000-00-00')) AS f_QUANTITY, (SELECT (CASE WHEN u.t_symbol!='' THEN u.t_symbol ELSE u.t_name END) FROM unit u, operation s WHERE u.id=s.rc_unit_id AND s.rd_account_id=v_account.id AND s.d_date='0000-00-00') AS t_UNIT, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.t_status!='N' AND s.t_template='N') AS f_CHECKED, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.t_status='N' AND s.t_template='N') AS f_COMING_SOON, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.d_date<=date('now') AND s.t_template='N') AS f_TODAYAMOUNT, (SELECT count(*) FROM v_operation_display s WHERE s.rd_account_id=v_account.id) AS i_NBOPERATIONS, IFNULL((SELECT s.f_rate FROM interest s WHERE s.rd_account_id=v_account.id AND s.d_date=v_account.d_MAXDATE),0) AS f_RATE FROM v_account, bank WHERE bank.id=v_account.rd_bank_id;
CREATE VIEW v_operation_consolidated AS SELECT (SELECT s.t_TYPENLS FROM v_account_display s WHERE s.id=op.rd_account_id) AS t_ACCOUNTTYPE,(SELECT u.t_TYPENLS FROM v_unit u WHERE u.id=op.rc_unit_id) AS t_UNITTYPE,sop.id AS i_SUBOPID, sop.r_refund_id AS r_refund_id, (CASE WHEN sop.t_comment='' THEN op.t_comment ELSE sop.t_comment END) AS t_REALCOMMENT, sop.t_CATEGORY AS t_REALCATEGORY, sop.t_REFUND AS t_REALREFUND, sop.r_category_id AS i_IDCATEGORY, (CASE WHEN sop.f_value<0 THEN '-' WHEN sop.f_value=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE, (CASE WHEN sop.f_value<0 THEN 'Dpense' WHEN sop.f_value=0 THEN '' ELSE 'Revenu' END) AS t_TYPEEXPENSENLS, sop.f_value AS f_REALQUANTITY, sop.f_VALUE_INCOME AS f_REALQUANTITY_INCOME, sop.f_VALUE_EXPENSE AS f_REALQUANTITY_EXPENSE, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_value) AS f_REALCURRENTAMOUNT, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_VALUE_INCOME) AS f_REALCURRENTAMOUNT_INCOME, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_VALUE_EXPENSE) AS f_REALCURRENTAMOUNT_EXPENSE, op.* FROM v_operation_display_all AS op, v_suboperation_display AS sop WHERE op.t_template='N' AND sop.rd_operation_id=op.ID;
CREATE VIEW v_operation_prop AS SELECT p.id AS i_PROPPID, p.t_name AS i_PROPPNAME, p.t_value AS i_PROPVALUE, op.* FROM v_operation_consolidated AS op LEFT OUTER JOIN parameters AS p ON p.t_uuid_parent=op.id||'-operation';
CREATE VIEW v_refund_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM v_operation_consolidated WHERE r_refund_id=refund.id AND t_status='Y') THEN 'Vous n''tes pas autoris dtruire ce suiveur car utilis par des oprations rapproches' END) t_delete_message FROM refund;
CREATE VIEW v_refund AS SELECT *, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE o.r_refund_id=refund.id) AS f_CURRENTAMOUNT FROM refund;
CREATE VIEW v_refund_display AS SELECT *,(SELECT MIN(o.d_date) FROM v_operation_consolidated o WHERE o.r_refund_id=v_refund.id) AS d_FIRSTDATE, (SELECT MAX(o.d_date) FROM v_operation_consolidated o WHERE o.r_refund_id=v_refund.id) AS d_LASTDATE FROM v_refund;
CREATE VIEW v_refund_displayname AS SELECT *, t_name AS t_displayname FROM refund;
CREATE VIEW v_payee_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM operation WHERE r_payee_id=payee.id AND t_status='Y') THEN 'Vous n''tes pas autoris dtruire ce tiers car utilis par des oprations rapproches' END) t_delete_message FROM payee;
CREATE VIEW v_payee AS SELECT *, (SELECT TOTAL(o.f_CURRENTAMOUNT) FROM v_operation o

WHERE o.r_payee_id=payee.id AND o.t_template='N') AS f_CURRENTAMOUNT FROM payee;
CREATE VIEW v_payee_display AS SELECT * FROM v_payee;
CREATE VIEW v_payee_displayname AS SELECT *, t_name AS t_displayname FROM payee;
CREATE VIEW v_category_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM v_operation_consolidated WHERE (t_REALCATEGORY=category.t_fullname OR t_REALCATEGORY like category.t_fullname||'%') AND t_status='Y') THEN 'Vous n''tes pas autoris dtruire cette catgorie car utilise par des oprations rapproches' END) t_delete_message FROM category;
CREATE VIEW v_category_display_tmp AS SELECT *,(SELECT count(distinct(so.rd_operation_id)) FROM operation o, suboperation so WHERE so.rd_operation_id=o.id AND so.r_category_id=v_category.ID AND o.t_template='N') AS i_NBOPERATIONS, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE o.i_IDCATEGORY=v_category.ID) AS f_REALCURRENTAMOUNT FROM v_category;
CREATE VIEW v_category_display AS SELECT *,f_REALCURRENTAMOUNT+(SELECT TOTAL(c.f_REALCURRENTAMOUNT) FROM vm_category_display_tmp c WHERE c.t_fullname LIKE vm_category_display_tmp.t_fullname||' > %') AS f_SUMCURRENTAMOUNT, i_NBOPERATIONS+(SELECT CAST(TOTAL(c.i_NBOPERATIONS) AS INTEGER) FROM vm_category_display_tmp c WHERE c.t_fullname like vm_category_display_tmp.t_fullname||' > %') AS i_SUMNBOPERATIONS, (CASE WHEN t_bookmarked='Y' THEN 'Y' WHEN EXISTS(SELECT 1 FROM category c WHERE c.t_bookmarked='Y' AND c.t_fullname like vm_category_display_tmp.t_fullname||' > %') THEN 'C' ELSE 'N' END) AS t_HASBOOKMARKEDCHILD, (CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN '-' WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE,(CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN 'Dpense' WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN '' ELSE 'Revenu' END) AS t_TYPEEXPENSENLS FROM vm_category_display_tmp;
CREATE VIEW v_recurrentoperation_display AS SELECT rop.*, op.t_ACCOUNT, op.i_number, op.t_mode, op.i_group_id, op.t_TRANSFER, op.t_PAYEE, op.t_comment, op.t_CATEGORY, op.t_status, op.f_CURRENTAMOUNT FROM v_recurrentoperation rop, v_operation_display_all AS op WHERE rop.rd_operation_id=op.ID;
CREATE VIEW v_rule AS SELECT *,(SELECT COUNT(1) FROM rule r WHERE r.f_sortorder<=rule.f_sortorder) AS i_ORDER FROM rule;
CREATE VIEW v_rule_displayname AS SELECT *, t_definition AS t_displayname FROM rule;
CREATE VIEW v_interest AS SELECT *,(SELECT s.t_name FROM account s WHERE s.id=interest.rd_account_id) AS t_ACCOUNT FROM interest;
CREATE VIEW v_interest_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||' '||f_rate||'%' AS t_displayname FROM interest;
CREATE VIEW v_budgetrule AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id),'') AS t_CATEGORYCONDITION, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id_target),'') AS t_CATEGORY, (CASE WHEN budgetrule.i_condition=-1 THEN 'Ngatif' WHEN budgetrule.i_condition=1 THEN 'Positif' WHEN budgetrule.i_condition=0 THEN 'Tous' END) AS t_WHENNLS, f_quantity||(CASE WHEN budgetrule.t_absolute='N' THEN '%' ELSE (SELECT t_symbol FROM unit WHERE t_type='1') END) AS t_WHATNLS,(CASE WHEN budgetrule.t_rule='N' THEN 'Suivant' WHEN budgetrule.t_rule='C' THEN 'Courant' WHEN budgetrule.t_rule='Y' THEN 'Anne' END) AS t_RULENLS FROM budgetrule;
CREATE VIEW v_budgetrule_display AS SELECT * FROM v_budgetrule;
CREATE VIEW v_budgetrule_displayname AS SELECT *, t_WHENNLS||' '||t_WHATNLS||' '||t_RULENLS||' '||t_CATEGORY AS t_displayname FROM v_budgetrule;
CREATE VIEW v_budget_tmp AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budget.rc_category_id),'') AS t_CATEGORY, (i_year||(CASE WHEN i_month=0 THEN '' WHEN i_month<10

```
THEN '-0'||i_month ELSE '-'||i_month END)) AS t_PERIOD, (SELECT TOTAL(o.f_REALCURRENTAMOUNT)
FROM v_operation_consolidated o WHERE STRFTIME('%Y', o.d_date)=i_year AND (i_month=0 OR
STRFTIME('%m', o.d_date)=i_month) AND o.i_IDCATEGORY IN (SELECT b2.id_category FROM
budgetcategory b2 WHERE b2.id=budget.id)) AS f_CURRENTAMOUNT, (SELECT
GROUP_CONCAT(v_budgetrule_displayname.t_displayname,',') FROM v_budgetrule_displayname WHERE
(v_budgetrule_displayname.t_year_condition='N' OR budget.i_year=v_budgetrule_displayname.i_year) AND
(v_budgetrule_displayname.t_month_condition='N' OR budget.i_month=v_budgetrule_displayname.i_month) AND
(v_budgetrule_displayname.t_category_condition='N' OR
budget.rc_category_id=v_budgetrule_displayname.rc_category_id) ORDER BY
v_budgetrule_displayname.t_absolute DESC, v_budgetrule_displayname.id) AS t_RULES FROM budget;
CREATE VIEW v_budget AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS
f_DELTABEFORETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA
FROM v_budget_tmp;
CREATE VIEW v_budget_display AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS
f_DELTABEFORETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA
FROM vm_budget_tmp;
CREATE VIEW v_budget_displayname AS SELECT *, t_CATEGORY||' '||t_PERIOD||' '||f_budgeted_modified AS
t_displayname FROM v_budget;
CREATE TRIGGER fkdc_bank_parameters_uuid BEFORE DELETE ON bank FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'bank'; END;
CREATE TRIGGER fkdc_account_parameters_uuid BEFORE DELETE ON account FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'account'; END;
CREATE TRIGGER fkdc_unit_parameters_uuid BEFORE DELETE ON unit FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'unit'; END;
CREATE TRIGGER fkdc_unitvalue_parameters_uuid BEFORE DELETE ON unitvalue FOR EACH ROW BEGIN
  DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'unitvalue'; END;
CREATE TRIGGER fkdc_category_parameters_uuid BEFORE DELETE ON category FOR EACH ROW BEGIN
 DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'category'; END;
CREATE TRIGGER fkdc_operation_parameters_uuid BEFORE DELETE ON operation FOR EACH ROW
BEGIN    DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'operation'; END;
CREATE TRIGGER fkdc_interest_parameters_uuid BEFORE DELETE ON interest FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'interest'; END;
CREATE TRIGGER fkdc_suboperation_parameters_uuid BEFORE DELETE ON suboperation FOR EACH ROW
BEGIN    DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'suboperation'; END;
CREATE TRIGGER fkdc_refund_parameters_uuid BEFORE DELETE ON refund FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'refund'; END;
CREATE TRIGGER fkdc_payee_parameters_uuid BEFORE DELETE ON payee FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'payee'; END;
CREATE TRIGGER fkdc_recurrentoperation_parameters_uuid BEFORE DELETE ON recurrentoperation FOR
EACH ROW BEGIN    DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-
'||'recurrentoperation'; END;
CREATE TRIGGER fkdc_rule_parameters_uuid BEFORE DELETE ON rule FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'rule'; END;
CREATE TRIGGER fkdc_budget_parameters_uuid BEFORE DELETE ON budget FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budget'; END;
CREATE TRIGGER fkdc_budgetrule_parameters_uuid BEFORE DELETE ON budgetrule FOR EACH ROW
BEGIN    DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budgetrule'; END;
CREATE TRIGGER cpt_category_fullname1 AFTER INSERT ON category BEGIN UPDATE category SET
```

```
t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id='' OR rd_category_id=0 THEN
new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id)||' > '||new.t_name
END WHERE id=new.id;END;
CREATE TRIGGER cpt_category_fullname2 AFTER UPDATE OF t_name, rd_category_id ON category BEGIN
UPDATE category SET t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id='' OR
rd_category_id=0 THEN new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE
c.id=new.rd_category_id)||' > '||new.t_name END WHERE id=new.id;UPDATE category SET t_name=t_name
WHERE rd_category_id=new.id;END;
CREATE TRIGGER fkdc_category_delete BEFORE DELETE ON category FOR EACH ROW BEGIN
UPDATE suboperation SET r_category_id=OLD.rd_category_id WHERE r_category_id=OLD.id; END;
explain
    SELECT TOTAL(f_CURRENTAMOUNT), d_DATEMONTH
    from v_operation_display
    WHERE d_DATEMONTH IN ('2012-05', '2012-04')
    group by d_DATEMONTH, t_TYPEEXPENSE;
 }
} {/.* Goto .*/}

# The next test requires FTS4
ifcapable !fts3 {
 finish_test
 return
}

# Taken from the gnome-shell project
#
db close
forcedelete test.db
sqlite3 db test.db
do_test fuzz-oss1-gnomeshell {
 db eval {
CREATE TABLE Resource (ID INTEGER NOT NULL PRIMARY KEY, Uri TEXT NOT
NULL, UNIQUE (Uri));
CREATE VIRTUAL TABLE fts USING fts4;
CREATE TABLE "mfo:Action" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mfo:Enclosure" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:remoteLink" INTEGER, "mfo:remoteLink:graph" INTEGER,
"mfo:groupDefault" INTEGER, "mfo:groupDefault:graph" INTEGER,
"mfo:localLink" INTEGER, "mfo:localLink:graph" INTEGER, "mfo:optional"
INTEGER, "mfo:optional:graph" INTEGER);
CREATE TABLE "mfo:FeedChannel" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:updatedTime" INTEGER, "mfo:updatedTime:graph" INTEGER,
"mfo:updatedTime:localDate" INTEGER, "mfo:updatedTime:localTime"
INTEGER, "mfo:unreadCount" INTEGER, "mfo:unreadCount:graph" INTEGER,
"mfo:totalCount" INTEGER, "mfo:totalCount:graph" INTEGER, "mfo:action"
INTEGER, "mfo:action:graph" INTEGER, "mfo:type" INTEGER,
"mfo:type:graph" INTEGER);
CREATE TABLE "mfo:FeedElement" (ID INTEGER NOT NULL PRIMARY KEY,
```

"mfo:image" TEXT COLLATE NOCASE, "mfo:image:graph" INTEGER,
"mfo:feedSettings" INTEGER, "mfo:feedSettings:graph" INTEGER);
CREATE TABLE "mfo:FeedMessage" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:downloadedTime" INTEGER, "mfo:downloadedTime:graph" INTEGER,
"mfo:downloadedTime:localDate" INTEGER, "mfo:downloadedTime:localTime"
INTEGER);
CREATE TABLE "mfo:FeedMessage_mfo:enclosureList" (ID INTEGER NOT NULL,
"mfo:enclosureList" INTEGER NOT NULL, "mfo:enclosureList:graph"
INTEGER);
CREATE TABLE "mfo:FeedSettings" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:updateInterval" INTEGER, "mfo:updateInterval:graph" INTEGER,
"mfo:expiryInterval" INTEGER, "mfo:expiryInterval:graph" INTEGER,
"mfo:downloadPath" TEXT COLLATE NOCASE, "mfo:downloadPath:graph"
INTEGER, "mfo:downloadFlag" INTEGER, "mfo:downloadFlag:graph" INTEGER,
"mfo:maxSize" INTEGER, "mfo:maxSize:graph" INTEGER);
CREATE TABLE "mfo:FeedType" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:name" TEXT COLLATE NOCASE, "mfo:name:graph" INTEGER);
CREATE TABLE "mlo:GeoBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoBoundingBox_mlo:bbNorthWest" (ID INTEGER NOT
NULL, "mlo:bbNorthWest" INTEGER NOT NULL, "mlo:bbNorthWest:graph"
INTEGER);
CREATE TABLE "mlo:GeoBoundingBox_mlo:bbSouthEast" (ID INTEGER NOT
NULL, "mlo:bbSouthEast" INTEGER NOT NULL, "mlo:bbSouthEast:graph"
INTEGER);
CREATE TABLE "mlo:GeoLocation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoLocation_mlo:asBoundingBox" (ID INTEGER NOT NULL,
"mlo:asBoundingBox" INTEGER NOT NULL, "mlo:asBoundingBox:graph"
INTEGER);
CREATE TABLE "mlo:GeoLocation_mlo:asGeoPoint" (ID INTEGER NOT NULL,
"mlo:asGeoPoint" INTEGER NOT NULL, "mlo:asGeoPoint:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation_mlo:asPostalAddress" (ID INTEGER NOT
NULL, "mlo:asPostalAddress" INTEGER NOT NULL,
"mlo:asPostalAddress:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoPoint_mlo:address" (ID INTEGER NOT NULL,
"mlo:address" TEXT NOT NULL, "mlo:address:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:altitude" (ID INTEGER NOT NULL,
"mlo:altitude" REAL NOT NULL, "mlo:altitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:city" (ID INTEGER NOT NULL, "mlo:city"
TEXT NOT NULL, "mlo:city:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:country" (ID INTEGER NOT NULL,
"mlo:country" TEXT NOT NULL, "mlo:country:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:latitude" (ID INTEGER NOT NULL,
"mlo:latitude" REAL NOT NULL, "mlo:latitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:longitude" (ID INTEGER NOT NULL,
"mlo:longitude" REAL NOT NULL, "mlo:longitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:state" (ID INTEGER NOT NULL,
"mlo:state" TEXT NOT NULL, "mlo:state:graph" INTEGER);

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CREATE TABLE "mlo:GeoPoint_mlo:timestamp" (ID INTEGER NOT NULL,
"mlo:timestamp" INTEGER NOT NULL, "mlo:timestamp:graph" INTEGER,
"mlo:timestamp:localDate" INTEGER NOT NULL, "mlo:timestamp:localTime"
INTEGER NOT NULL);
CREATE TABLE "mlo:GeoSphere" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoSphere_mlo:radius" (ID INTEGER NOT NULL,
"mlo:radius" REAL NOT NULL, "mlo:radius:graph" INTEGER);
CREATE TABLE "mlo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LandmarkCategory" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LandmarkCategory_mlo:isRemovable" (ID INTEGER NOT
NULL, "mlo:isRemovable" INTEGER NOT NULL, "mlo:isRemovable:graph"
INTEGER);
CREATE TABLE "mlo:Landmark_mlo:belongsToCategory" (ID INTEGER NOT
NULL, "mlo:belongsToCategory" INTEGER NOT NULL,
"mlo:belongsToCategory:graph" INTEGER);
CREATE TABLE "mlo:Landmark_mlo:poiLocation" (ID INTEGER NOT NULL,
"mlo:poiLocation" INTEGER NOT NULL, "mlo:poiLocation:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxEastLimit" (ID INTEGER
NOT NULL, "mlo:boxEastLimit" INTEGER NOT NULL,
"mlo:boxEastLimit:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxNorthLimit" (ID INTEGER
NOT NULL, "mlo:boxNorthLimit" INTEGER NOT NULL,
"mlo:boxNorthLimit:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxSouthWestCorner" (ID
INTEGER NOT NULL, "mlo:boxSouthWestCorner" INTEGER NOT NULL,
"mlo:boxSouthWestCorner:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxVerticalLimit" (ID
INTEGER NOT NULL, "mlo:boxVerticalLimit" INTEGER NOT NULL,
"mlo:boxVerticalLimit:graph" INTEGER);
CREATE TABLE "mlo:PointOfInterest" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Route" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Route_mlo:endTime" (ID INTEGER NOT NULL,
"mlo:endTime" INTEGER NOT NULL, "mlo:endTime:graph" INTEGER,
"mlo:endTime:localDate" INTEGER NOT NULL, "mlo:endTime:localTime"
INTEGER NOT NULL);
CREATE TABLE "mlo:Route_mlo:routeDetails" (ID INTEGER NOT NULL,
"mlo:routeDetails" TEXT NOT NULL, "mlo:routeDetails:graph" INTEGER);
CREATE TABLE "mlo:Route_mlo:startTime" (ID INTEGER NOT NULL,
"mlo:startTime" INTEGER NOT NULL, "mlo:startTime:graph" INTEGER,
"mlo:startTime:localDate" INTEGER NOT NULL, "mlo:startTime:localTime"
INTEGER NOT NULL);
CREATE TABLE "mto:DownloadTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:State" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:SyncTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:Transfer" (ID INTEGER NOT NULL PRIMARY KEY,
"mto:transferState" INTEGER, "mto:transferState:graph" INTEGER,
"mto:method" INTEGER, "mto:method:graph" INTEGER, "mto:created"
```

```
INTEGER, "mto:created:graph" INTEGER, "mto:created:localDate" INTEGER,
"mto:created:localTime" INTEGER, "mto:account" TEXT COLLATE NOCASE,
"mto:account:graph" INTEGER, "mto:starter" INTEGER,
"mto:starter:graph" INTEGER, "mto:agent" INTEGER, "mto:agent:graph"
INTEGER);
CREATE TABLE "mto:TransferElement" (ID INTEGER NOT NULL PRIMARY KEY,
"mto:source" INTEGER, "mto:source:graph" INTEGER, "mto:destination"
INTEGER, "mto:destination:graph" INTEGER, "mto:startedTime" INTEGER,
"mto:startedTime:graph" INTEGER, "mto:startedTime:localDate" INTEGER,
"mto:startedTime:localTime" INTEGER, "mto:completedTime" INTEGER,
"mto:completedTime:graph" INTEGER, "mto:completedTime:localDate"
INTEGER, "mto:completedTime:localTime" INTEGER, "mto:state" INTEGER,
"mto:state:graph" INTEGER);
CREATE TABLE "mto:TransferMethod" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:Transfer_mto:transferList" (ID INTEGER NOT NULL,
"mto:transferList" INTEGER NOT NULL, "mto:transferList:graph"
INTEGER);
CREATE TABLE "mto:Transfer_mto:transferPrivacyLevel" (ID INTEGER NOT
NULL, "mto:transferPrivacyLevel" TEXT NOT NULL,
"mto:transferPrivacyLevel:graph" INTEGER);
CREATE TABLE "mto:UploadTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:UploadTransfer_mto:transferCategory" (ID INTEGER NOT
NULL, "mto:transferCategory" TEXT NOT NULL,
"mto:transferCategory:graph" INTEGER);
CREATE TABLE "mtp:ScanType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nao:Property" (ID INTEGER NOT NULL PRIMARY KEY,
"nao:propertyName" TEXT COLLATE NOCASE, "nao:propertyName:graph"
INTEGER, "nao:propertyValue" TEXT COLLATE NOCASE,
"nao:propertyValue:graph" INTEGER);
CREATE TABLE "nao:Tag" (ID INTEGER NOT NULL PRIMARY KEY,
"nao:prefLabel" TEXT COLLATE NOCASE, "nao:prefLabel:graph" INTEGER,
"nao:description" TEXT COLLATE NOCASE, "nao:description:graph"
INTEGER);
CREATE TABLE "nao:Tag_tracker:isDefaultTag" (ID INTEGER NOT NULL,
"tracker:isDefaultTag" INTEGER NOT NULL, "tracker:isDefaultTag:graph"
INTEGER);
CREATE TABLE "nao:Tag_tracker:tagRelatedTo" (ID INTEGER NOT NULL,
"tracker:tagRelatedTo" INTEGER NOT NULL, "tracker:tagRelatedTo:graph"
INTEGER);
CREATE TABLE "ncal:AccessClassification" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Alarm" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:repeat" INTEGER, "ncal:repeat:graph" INTEGER);
CREATE TABLE "ncal:AlarmAction" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Alarm_ncal:action" (ID INTEGER NOT NULL,
"ncal:action" INTEGER NOT NULL, "ncal:action:graph" INTEGER);
CREATE TABLE "ncal:Attachment" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:attachmentUri" INTEGER, "ncal:attachmentUri:graph" INTEGER,
"ncal:fmttype" TEXT COLLATE NOCASE, "ncal:fmttype:graph" INTEGER,
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"ncal:encoding" INTEGER, "ncal:encoding:graph" INTEGER,
"ncal:attachmentContent" TEXT COLLATE NOCASE,
"ncal:attachmentContent:graph" INTEGER);
CREATE TABLE "ncal:AttachmentEncoding" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Attendee" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:delegatedTo" INTEGER, "ncal:delegatedTo:graph" INTEGER,
"ncal:delegatedFrom" INTEGER, "ncal:delegatedFrom:graph" INTEGER,
"ncal:cutype" INTEGER, "ncal:cutype:graph" INTEGER, "ncal:member"
INTEGER, "ncal:member:graph" INTEGER, "ncal:role" INTEGER,
"ncal:role:graph" INTEGER, "ncal:rsvp" INTEGER, "ncal:rsvp:graph"
INTEGER, "ncal:partstat" INTEGER, "ncal:partstat:graph" INTEGER);
CREATE TABLE "ncal:AttendeeOrOrganizer" (ID INTEGER NOT NULL PRIMARY
KEY, "ncal:dir" INTEGER, "ncal:dir:graph" INTEGER,
"ncal:involvedContact" INTEGER, "ncal:involvedContact:graph" INTEGER,
"ncal:sentBy" INTEGER, "ncal:sentBy:graph" INTEGER);
CREATE TABLE "ncal:AttendeeRole" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:BydayRulePart" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:BydayRulePart_ncal:bydayModifier" (ID INTEGER NOT
NULL, "ncal:bydayModifier" INTEGER NOT NULL,
"ncal:bydayModifier:graph" INTEGER);
CREATE TABLE "ncal:BydayRulePart_ncal:bydayWeekday" (ID INTEGER NOT
NULL, "ncal:bydayWeekday" INTEGER NOT NULL, "ncal:bydayWeekday:graph"
INTEGER);
CREATE TABLE "ncal:Calendar" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:method" TEXT COLLATE NOCASE, "ncal:method:graph" INTEGER,
"ncal:calscale" INTEGER, "ncal:calscale:graph" INTEGER, "ncal:prodid"
TEXT COLLATE NOCASE, "ncal:prodid:graph" INTEGER, "ncal:version" TEXT
COLLATE NOCASE, "ncal:version:graph" INTEGER);
CREATE TABLE "ncal:CalendarDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:CalendarScale" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:CalendarUserType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Calendar_ncal:component" (ID INTEGER NOT NULL,
"ncal:component" INTEGER NOT NULL, "ncal:component:graph" INTEGER);
CREATE TABLE "ncal:Event" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:eventStatus" INTEGER, "ncal:eventStatus:graph" INTEGER,
"ncal:transp" INTEGER, "ncal:transp:graph" INTEGER);
CREATE TABLE "ncal:EventStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Freebusy" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:FreebusyPeriod" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:fbtype" INTEGER, "ncal:fbtype:graph" INTEGER);
CREATE TABLE "ncal:FreebusyType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Freebusy_ncal:freebusy" (ID INTEGER NOT NULL,
"ncal:freebusy" INTEGER NOT NULL, "ncal:freebusy:graph" INTEGER);
CREATE TABLE "ncal:Journal" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:journalStatus" INTEGER, "ncal:journalStatus:graph" INTEGER);
CREATE TABLE "ncal:JournalStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:NcalDateTime" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:ncalTimezone" INTEGER, "ncal:ncalTimezone:graph" INTEGER,

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"ncal:date" INTEGER, "ncal:date:graph" INTEGER, "ncal:date:localDate"
INTEGER, "ncal:date:localTime" INTEGER, "ncal:dateTime" INTEGER,
"ncal:dateTime:graph" INTEGER, "ncal:dateTime:localDate" INTEGER,
"ncal:dateTime:localTime" INTEGER);
CREATE TABLE "ncal:NcalPeriod" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:periodBegin" INTEGER, "ncal:periodBegin:graph" INTEGER,
"ncal:periodBegin:localDate" INTEGER, "ncal:periodBegin:localTime"
INTEGER, "ncal:periodDuration" INTEGER, "ncal:periodDuration:graph"
INTEGER, "ncal:periodEnd" INTEGER, "ncal:periodEnd:graph" INTEGER,
"ncal:periodEnd:localDate" INTEGER, "ncal:periodEnd:localTime"
INTEGER);
CREATE TABLE "ncal:NcalTimeEntity" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Organizer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:ParticipationStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceFrequency" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceIdentifier" (ID INTEGER NOT NULL PRIMARY
KEY, "ncal:range" INTEGER, "ncal:range:graph" INTEGER,
"ncal:recurrenceIdDateTime" INTEGER, "ncal:recurrenceIdDateTime:graph"
INTEGER);
CREATE TABLE "ncal:RecurrenceIdentifierRange" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceRule" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:until" INTEGER, "ncal:until:graph" INTEGER,
"ncal:until:localDate" INTEGER, "ncal:until:localTime" INTEGER,
"ncal:wkst" INTEGER, "ncal:wkst:graph" INTEGER, "ncal:interval"
INTEGER, "ncal:interval:graph" INTEGER, "ncal:count" INTEGER,
"ncal:count:graph" INTEGER, "ncal:freq" INTEGER, "ncal:freq:graph"
INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byday" (ID INTEGER NOT NULL,
"ncal:byday" INTEGER NOT NULL, "ncal:byday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byhour" (ID INTEGER NOT NULL,
"ncal:byhour" INTEGER NOT NULL, "ncal:byhour:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byminute" (ID INTEGER NOT NULL,
"ncal:byminute" INTEGER NOT NULL, "ncal:byminute:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonth" (ID INTEGER NOT NULL,
"ncal:bymonth" INTEGER NOT NULL, "ncal:bymonth:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonthday" (ID INTEGER NOT
NULL, "ncal:bymonthday" INTEGER NOT NULL, "ncal:bymonthday:graph"
INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bysecond" (ID INTEGER NOT NULL,
"ncal:bysecond" INTEGER NOT NULL, "ncal:bysecond:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bysetpos" (ID INTEGER NOT NULL,
"ncal:bysetpos" INTEGER NOT NULL, "ncal:bysetpos:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byweekno" (ID INTEGER NOT NULL,
"ncal:byweekno" INTEGER NOT NULL, "ncal:byweekno:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byyearday" (ID INTEGER NOT
NULL, "ncal:byyearday" INTEGER NOT NULL, "ncal:byyearday:graph"
INTEGER);
CREATE TABLE "ncal:RequestStatus" (ID INTEGER NOT NULL PRIMARY KEY,
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"ncal:statusDescription" TEXT COLLATE NOCASE,
"ncal:statusDescription:graph" INTEGER, "ncal:returnStatus" TEXT
COLLATE NOCASE, "ncal:returnStatus:graph" INTEGER,
"ncal:requestStatusData" TEXT COLLATE NOCASE,
"ncal:requestStatusData:graph" INTEGER);
CREATE TABLE "ncal:TimeTransparency" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Timezone" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:tzurl" INTEGER, "ncal:tzurl:graph" INTEGER, "ncal:standard"
INTEGER, "ncal:standard:graph" INTEGER, "ncal:daylight" INTEGER,
"ncal:daylight:graph" INTEGER, "ncal:tzid" TEXT COLLATE NOCASE,
"ncal:tzid:graph" INTEGER);
CREATE TABLE "ncal:TimezoneObservance" (ID INTEGER NOT NULL PRIMARY
KEY, "ncal:tzoffsetfrom" TEXT COLLATE NOCASE,
"ncal:tzoffsetfrom:graph" INTEGER, "ncal:tzoffsetto" TEXT COLLATE
NOCASE, "ncal:tzoffsetto:graph" INTEGER, "ncal:tzname" TEXT COLLATE
NOCASE, "ncal:tzname:graph" INTEGER);
CREATE TABLE "ncal:Todo" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:percentComplete" INTEGER, "ncal:percentComplete:graph" INTEGER,
"ncal:completed" INTEGER, "ncal:completed:graph" INTEGER,
"ncal:completed:localDate" INTEGER, "ncal:completed:localTime"
INTEGER, "ncal:todoStatus" INTEGER, "ncal:todoStatus:graph" INTEGER,
"ncal:due" INTEGER, "ncal:due:graph" INTEGER);
CREATE TABLE "ncal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Trigger" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:related" INTEGER, "ncal:related:graph" INTEGER,
"ncal:triggerDateTime" INTEGER, "ncal:triggerDateTime:graph" INTEGER,
"ncal:triggerDateTime:localDate" INTEGER,
"ncal:triggerDateTime:localTime" INTEGER, "ncal:triggerDuration"
INTEGER, "ncal:triggerDuration:graph" INTEGER);
CREATE TABLE "ncal:TriggerRelation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:UnionParentClass" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:lastModified" INTEGER, "ncal:lastModified:graph" INTEGER,
"ncal:lastModified:localDate" INTEGER, "ncal:lastModified:localTime"
INTEGER, "ncal:trigger" INTEGER, "ncal:trigger:graph" INTEGER,
"ncal:created" INTEGER, "ncal:created:graph" INTEGER,
"ncal:created:localDate" INTEGER, "ncal:created:localTime" INTEGER,
"ncal:url" INTEGER, "ncal:url:graph" INTEGER, "ncal:comment" TEXT
COLLATE NOCASE, "ncal:comment:graph" INTEGER, "ncal:summaryAltRep"
INTEGER, "ncal:summaryAltRep:graph" INTEGER, "ncal:priority" INTEGER,
"ncal:priority:graph" INTEGER, "ncal:location" TEXT COLLATE NOCASE,
"ncal:location:graph" INTEGER, "ncal:uid" TEXT COLLATE NOCASE,
"ncal:uid:graph" INTEGER, "ncal:requestStatus" INTEGER,
"ncal:requestStatus:graph" INTEGER, "ncal:recurrenceId" INTEGER,
"ncal:recurrenceId:graph" INTEGER, "ncal:dtstamp" INTEGER,
"ncal:dtstamp:graph" INTEGER, "ncal:dtstamp:localDate" INTEGER,
"ncal:dtstamp:localTime" INTEGER, "ncal:class" INTEGER,
"ncal:class:graph" INTEGER, "ncal:organizer" INTEGER,
"ncal:organizer:graph" INTEGER, "ncal:dtend" INTEGER,

"ncal:dtend:graph" INTEGER, "ncal:summary" TEXT COLLATE NOCASE,
"ncal:summary:graph" INTEGER, "ncal:descriptionAltRep" INTEGER,
"ncal:descriptionAltRep:graph" INTEGER, "ncal:commentAltRep" INTEGER,
"ncal:commentAltRep:graph" INTEGER, "ncal:sequence" INTEGER,
"ncal:sequence:graph" INTEGER, "ncal:contact" TEXT COLLATE NOCASE,
"ncal:contact:graph" INTEGER, "ncal:contactAltRep" INTEGER,
"ncal:contactAltRep:graph" INTEGER, "ncal:locationAltRep" INTEGER,
"ncal:locationAltRep:graph" INTEGER, "ncal:geo" INTEGER,
"ncal:geo:graph" INTEGER, "ncal:resourcesAltRep" INTEGER,
"ncal:resourcesAltRep:graph" INTEGER, "ncal:dtstart" INTEGER,
"ncal:dtstart:graph" INTEGER, "ncal:description" TEXT COLLATE NOCASE,
"ncal:description:graph" INTEGER, "ncal:relatedToSibling" TEXT COLLATE
NOCASE, "ncal:relatedToSibling:graph" INTEGER, "ncal:duration"
INTEGER, "ncal:duration:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:attach" (ID INTEGER NOT NULL,
"ncal:attach" INTEGER NOT NULL, "ncal:attach:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:attendee" (ID INTEGER NOT
NULL, "ncal:attendee" INTEGER NOT NULL, "ncal:attendee:graph"
INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:categories" (ID INTEGER NOT
NULL, "ncal:categories" TEXT NOT NULL, "ncal:categories:graph"
INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exdate" (ID INTEGER NOT NULL,
"ncal:exdate" INTEGER NOT NULL, "ncal:exdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exrule" (ID INTEGER NOT NULL,
"ncal:exrule" INTEGER NOT NULL, "ncal:exrule:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:hasAlarm" (ID INTEGER NOT
NULL, "ncal:hasAlarm" INTEGER NOT NULL, "ncal:hasAlarm:graph"
INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:ncalRelation" (ID INTEGER NOT
NULL, "ncal:ncalRelation" TEXT NOT NULL, "ncal:ncalRelation:graph"
INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:rdate" (ID INTEGER NOT NULL,
"ncal:rdate" INTEGER NOT NULL, "ncal:rdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToChild" (ID INTEGER
NOT NULL, "ncal:relatedToChild" TEXT NOT NULL,
"ncal:relatedToChild:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToParent" (ID INTEGER
NOT NULL, "ncal:relatedToParent" TEXT NOT NULL,
"ncal:relatedToParent:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:resources" (ID INTEGER NOT
NULL, "ncal:resources" TEXT NOT NULL, "ncal:resources:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:rrule" (ID INTEGER NOT NULL,
"ncal:rrule" INTEGER NOT NULL, "ncal:rrule:graph" INTEGER);
CREATE TABLE "ncal:Weekday" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Affiliation" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:department" TEXT COLLATE NOCASE, "nco:department:graph" INTEGER,
"nco:org" INTEGER, "nco:org:graph" INTEGER, "nco:role" TEXT COLLATE

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NOCASE, "nco:role:graph" INTEGER);
CREATE TABLE "nco:Affiliation_nco:title" (ID INTEGER NOT NULL,
"nco:title" TEXT NOT NULL, "nco:title:graph" INTEGER);
CREATE TABLE "nco:AuthorizationStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:BbsNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:CarPhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:CellPhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Contact" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:fullname" TEXT COLLATE NOCASE, "nco:fullname:graph" INTEGER,
"nco:key" INTEGER, "nco:key:graph" INTEGER, "nco:contactUID" TEXT
COLLATE NOCASE, "nco:contactUID:graph" INTEGER, "nco:contactLocalUID"
TEXT COLLATE NOCASE, "nco:contactLocalUID:graph" INTEGER,
"nco:hasLocation" INTEGER, "nco:hasLocation:graph" INTEGER,
"nco:nickname" TEXT COLLATE NOCASE, "nco:nickname:graph" INTEGER,
"nco:representative" INTEGER, "nco:representative:graph" INTEGER,
"nco:photo" INTEGER, "nco:photo:graph" INTEGER, "nco:birthDate"
INTEGER, "nco:birthDate:graph" INTEGER, "nco:birthDate:localDate"
INTEGER, "nco:birthDate:localTime" INTEGER, "nco:sound" INTEGER,
"nco:sound:graph" INTEGER);
CREATE TABLE "nco:ContactGroup" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:contactGroupName" TEXT COLLATE NOCASE,
"nco:contactGroupName:graph" INTEGER);
CREATE TABLE "nco:ContactList" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ContactListDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ContactList_nco:containsContact" (ID INTEGER NOT
NULL, "nco:containsContact" INTEGER NOT NULL,
"nco:containsContact:graph" INTEGER);
CREATE TABLE "nco:ContactMedium" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:contactMediumComment" TEXT COLLATE NOCASE,
"nco:contactMediumComment:graph" INTEGER);
CREATE TABLE "nco:Contact_ncal:anniversary" (ID INTEGER NOT NULL,
"ncal:anniversary" INTEGER NOT NULL, "ncal:anniversary:graph"
INTEGER);
CREATE TABLE "nco:Contact_ncal:birthday" (ID INTEGER NOT NULL,
"ncal:birthday" INTEGER NOT NULL, "ncal:birthday:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:belongsToGroup" (ID INTEGER NOT NULL,
"nco:belongsToGroup" INTEGER NOT NULL, "nco:belongsToGroup:graph"
INTEGER);
CREATE TABLE "nco:Contact_nco:note" (ID INTEGER NOT NULL, "nco:note"
TEXT NOT NULL, "nco:note:graph" INTEGER);
CREATE TABLE "nco:Contact_scal:anniversary" (ID INTEGER NOT NULL,
"scal:anniversary" INTEGER NOT NULL, "scal:anniversary:graph"
INTEGER);
CREATE TABLE "nco:Contact_scal:birthday" (ID INTEGER NOT NULL,
"scal:birthday" INTEGER NOT NULL, "scal:birthday:graph" INTEGER);
CREATE TABLE "nco:DomesticDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:EmailAddress" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:emailAddress" TEXT COLLATE NOCASE UNIQUE,
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"nco:emailAddress:graph" INTEGER);
CREATE TABLE "nco:FaxNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Gender" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:IMAccount" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:imAccountAddress" INTEGER UNIQUE, "nco:imAccountAddress:graph"
INTEGER, "nco:imAccountType" TEXT COLLATE NOCASE,
"nco:imAccountType:graph" INTEGER, "nco:imDisplayName" TEXT COLLATE
NOCASE, "nco:imDisplayName:graph" INTEGER, "nco:imEnabled" INTEGER,
"nco:imEnabled:graph" INTEGER);
CREATE TABLE "nco:IMAccount_nco:hasIMContact" (ID INTEGER NOT NULL,
"nco:hasIMContact" INTEGER NOT NULL, "nco:hasIMContact:graph"
INTEGER);
CREATE TABLE "nco:IMAddress" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:imID" TEXT COLLATE NOCASE, "nco:imID:graph" INTEGER,
"nco:imNickname" TEXT COLLATE NOCASE, "nco:imNickname:graph" INTEGER,
"nco:imAvatar" INTEGER, "nco:imAvatar:graph" INTEGER, "nco:imProtocol"
TEXT COLLATE NOCASE, "nco:imProtocol:graph" INTEGER,
"nco:imStatusMessage" TEXT COLLATE NOCASE,
"nco:imStatusMessage:graph" INTEGER, "nco:imPresence" INTEGER,
"nco:imPresence:graph" INTEGER, "nco:presenceLastModified" INTEGER,
"nco:presenceLastModified:graph" INTEGER,
"nco:presenceLastModified:localDate" INTEGER,
"nco:presenceLastModified:localTime" INTEGER,
"nco:imAddressAuthStatusFrom" INTEGER,
"nco:imAddressAuthStatusFrom:graph" INTEGER,
"nco:imAddressAuthStatusTo" INTEGER, "nco:imAddressAuthStatusTo:graph"
INTEGER);
CREATE TABLE "nco:IMAddress_nco:imCapability" (ID INTEGER NOT NULL,
"nco:imCapability" INTEGER NOT NULL, "nco:imCapability:graph"
INTEGER);
CREATE TABLE "nco:IMCapability" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:InternationalDeliveryAddress" (ID INTEGER NOT NULL
PRIMARY KEY);
CREATE TABLE "nco:IsdnNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:MessagingNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ModemNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:OrganizationContact" (ID INTEGER NOT NULL PRIMARY
KEY, "nco:logo" INTEGER, "nco:logo:graph" INTEGER);
CREATE TABLE "nco:PagerNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ParcelDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:PcsNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:PersonContact" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:nameFamily" TEXT COLLATE NOCASE, "nco:nameFamily:graph" INTEGER,
"nco:nameGiven" TEXT COLLATE NOCASE, "nco:nameGiven:graph" INTEGER,
"nco:nameAdditional" TEXT COLLATE NOCASE, "nco:nameAdditional:graph"
INTEGER, "nco:nameHonorificSuffix" TEXT COLLATE NOCASE,
"nco:nameHonorificSuffix:graph" INTEGER, "nco:nameHonorificPrefix"
TEXT COLLATE NOCASE, "nco:nameHonorificPrefix:graph" INTEGER,

"nco:hobby" TEXT COLLATE NOCASE, "nco:hobby:graph" INTEGER,
"nco:gender" INTEGER, "nco:gender:graph" INTEGER);
CREATE TABLE "nco:PersonContact_nco:hasAffiliation" (ID INTEGER NOT
NULL, "nco:hasAffiliation" INTEGER NOT NULL,
"nco:hasAffiliation:graph" INTEGER);
CREATE TABLE "nco:PhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:phoneNumber" TEXT COLLATE NOCASE, "nco:phoneNumber:graph"
INTEGER);
CREATE TABLE "nco:PostalAddress" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:region" TEXT COLLATE NOCASE, "nco:region:graph" INTEGER,
"nco:country" TEXT COLLATE NOCASE, "nco:country:graph" INTEGER,
"nco:extendedAddress" TEXT COLLATE NOCASE,
"nco:extendedAddress:graph" INTEGER, "nco:addressLocation" INTEGER,
"nco:addressLocation:graph" INTEGER, "nco:streetAddress" TEXT COLLATE
NOCASE, "nco:streetAddress:graph" INTEGER, "nco:postalcode" TEXT
COLLATE NOCASE, "nco:postalcode:graph" INTEGER, "nco:locality" TEXT
COLLATE NOCASE, "nco:locality:graph" INTEGER, "nco:county" TEXT
COLLATE NOCASE, "nco:county:graph" INTEGER, "nco:district" TEXT
COLLATE NOCASE, "nco:district:graph" INTEGER, "nco:pobox" TEXT
COLLATE NOCASE, "nco:pobox:graph" INTEGER);
CREATE TABLE "nco:PresenceStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Role" (ID INTEGER NOT NULL PRIMARY KEY, "nco:video"
INTEGER, "nco:video:graph" INTEGER);
CREATE TABLE "nco:Role_nco:blogUrl" (ID INTEGER NOT NULL,
"nco:blogUrl" INTEGER NOT NULL, "nco:blogUrl:graph" INTEGER);
CREATE TABLE "nco:Role_nco:foafUrl" (ID INTEGER NOT NULL,
"nco:foafUrl" INTEGER NOT NULL, "nco:foafUrl:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasContactMedium" (ID INTEGER NOT NULL,
"nco:hasContactMedium" INTEGER NOT NULL, "nco:hasContactMedium:graph"
INTEGER);
CREATE TABLE "nco:Role_nco:hasEmailAddress" (ID INTEGER NOT NULL,
"nco:hasEmailAddress" INTEGER NOT NULL, "nco:hasEmailAddress:graph"
INTEGER);
CREATE TABLE "nco:Role_nco:hasIMAddress" (ID INTEGER NOT NULL,
"nco:hasIMAddress" INTEGER NOT NULL, "nco:hasIMAddress:graph"
INTEGER);
CREATE TABLE "nco:Role_nco:hasPhoneNumber" (ID INTEGER NOT NULL,
"nco:hasPhoneNumber" INTEGER NOT NULL, "nco:hasPhoneNumber:graph"
INTEGER);
CREATE TABLE "nco:Role_nco:hasPostalAddress" (ID INTEGER NOT NULL,
"nco:hasPostalAddress" INTEGER NOT NULL, "nco:hasPostalAddress:graph"
INTEGER);
CREATE TABLE "nco:Role_nco:url" (ID INTEGER NOT NULL, "nco:url"
INTEGER NOT NULL, "nco:url:graph" INTEGER);
CREATE TABLE "nco:Role_nco:websiteUrl" (ID INTEGER NOT NULL,
"nco:websiteUrl" INTEGER NOT NULL, "nco:websiteUrl:graph" INTEGER);
CREATE TABLE "nco:VideoTelephoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:VoicePhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY,

"nco:voiceMail" INTEGER, "nco:voiceMail:graph" INTEGER);
CREATE TABLE "nfo:Application" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Archive" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:uncompressedSize" INTEGER, "nfo:uncompressedSize:graph" INTEGER);
CREATE TABLE "nfo:ArchiveItem" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:isPasswordProtected" INTEGER, "nfo:isPasswordProtected:graph"
INTEGER);
CREATE TABLE "nfo:Attachment" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Audio" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:channels" INTEGER, "nfo:channels:graph" INTEGER,
"nfo:sideChannels" INTEGER, "nfo:sideChannels:graph" INTEGER,
"nfo:lfeChannels" INTEGER, "nfo:lfeChannels:graph" INTEGER,
"nfo:sampleCount" INTEGER, "nfo:sampleCount:graph" INTEGER,
"nfo:bitsPerSample" INTEGER, "nfo:bitsPerSample:graph" INTEGER,
"nfo:frontChannels" INTEGER, "nfo:frontChannels:graph" INTEGER,
"nfo:sampleRate" REAL, "nfo:sampleRate:graph" INTEGER,
"nfo:averageAudioBitrate" REAL, "nfo:averageAudioBitrate:graph"
INTEGER, "nfo:rearChannels" INTEGER, "nfo:rearChannels:graph" INTEGER,
"nfo:gain" INTEGER, "nfo:gain:graph" INTEGER, "nfo:peakGain" INTEGER,
"nfo:peakGain:graph" INTEGER, "nfo:audioOffset" REAL,
"nfo:audioOffset:graph" INTEGER);
CREATE TABLE "nfo:Bookmark" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:bookmarks" INTEGER, "nfo:bookmarks:graph" INTEGER,
"nfo:characterPosition" INTEGER, "nfo:characterPosition:graph"
INTEGER, "nfo:pageNumber" INTEGER, "nfo:pageNumber:graph" INTEGER,
"nfo:streamPosition" INTEGER, "nfo:streamPosition:graph" INTEGER,
"nfo:streamDuration" INTEGER, "nfo:streamDuration:graph" INTEGER);
CREATE TABLE "nfo:BookmarkFolder" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmark" (ID INTEGER NOT
NULL, "nfo:containsBookmark" INTEGER NOT NULL,
"nfo:containsBookmark:graph" INTEGER);
CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmarkFolder" (ID
INTEGER NOT NULL, "nfo:containsBookmarkFolder" INTEGER NOT NULL,
"nfo:containsBookmarkFolder:graph" INTEGER);
CREATE TABLE "nfo:CompressionType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Cursor" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:DataContainer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:DeletedResource" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:originalLocation" TEXT COLLATE NOCASE,
"nfo:originalLocation:graph" INTEGER, "nfo:deletionDate" INTEGER,
"nfo:deletionDate:graph" INTEGER, "nfo:deletionDate:localDate"
INTEGER, "nfo:deletionDate:localTime" INTEGER);
CREATE TABLE "nfo:Document" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:tableOfContents" TEXT COLLATE NOCASE,
"nfo:tableOfContents:graph" INTEGER);
CREATE TABLE "nfo:EmbeddedFileDataObject" (ID INTEGER NOT NULL PRIMARY
KEY, "nfo:encoding" TEXT COLLATE NOCASE, "nfo:encoding:graph"
INTEGER);

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CREATE TABLE "nfo:Equipment" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:manufacturer" TEXT COLLATE NOCASE, "nfo:manufacturer:graph"
INTEGER, "nfo:model" TEXT COLLATE NOCASE, "nfo:model:graph" INTEGER,
"nfo:equipmentSoftware" TEXT COLLATE NOCASE,
"nfo:equipmentSoftware:graph" INTEGER);
CREATE TABLE "nfo:Executable" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:FileDataObject" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:fileLastAccessed" INTEGER, "nfo:fileLastAccessed:graph" INTEGER,
"nfo:fileLastAccessed:localDate" INTEGER,
"nfo:fileLastAccessed:localTime" INTEGER, "nfo:fileCreated" INTEGER,
"nfo:fileCreated:graph" INTEGER, "nfo:fileCreated:localDate" INTEGER,
"nfo:fileCreated:localTime" INTEGER, "nfo:fileSize" INTEGER,
"nfo:fileSize:graph" INTEGER, "nfo:permissions" TEXT COLLATE NOCASE,
"nfo:permissions:graph" INTEGER, "nfo:fileName" TEXT COLLATE NOCASE,
"nfo:fileName:graph" INTEGER, "nfo:hasHash" INTEGER,
"nfo:hasHash:graph" INTEGER, "nfo:fileOwner" INTEGER,
"nfo:fileOwner:graph" INTEGER, "nfo:fileLastModified" INTEGER,
"nfo:fileLastModified:graph" INTEGER, "nfo:fileLastModified:localDate"
INTEGER, "nfo:fileLastModified:localTime" INTEGER);
CREATE TABLE "nfo:FileHash" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:hashValue" TEXT COLLATE NOCASE, "nfo:hashValue:graph" INTEGER,
"nfo:hashAlgorithm" TEXT COLLATE NOCASE, "nfo:hashAlgorithm:graph"
INTEGER);
CREATE TABLE "nfo:Filesystem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:FilesystemImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Folder" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Font" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:fontFamily" TEXT COLLATE NOCASE, "nfo:fontFamily:graph" INTEGER,
"nfo:foundry" INTEGER, "nfo:foundry:graph" INTEGER);
CREATE TABLE "nfo:HardDiskPartition" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:HelpDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:HtmlDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Icon" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Image" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:verticalResolution" INTEGER, "nfo:verticalResolution:graph"
INTEGER, "nfo:horizontalResolution" INTEGER,
"nfo:horizontalResolution:graph" INTEGER, "nfo:orientation" INTEGER,
"nfo:orientation:graph" INTEGER);
CREATE TABLE "nfo:Image_nfo:depicts" (ID INTEGER NOT NULL,
"nfo:depicts" INTEGER NOT NULL, "nfo:depicts:graph" INTEGER);
CREATE TABLE "nfo:Image_nfo:hasRegionOfInterest" (ID INTEGER NOT NULL,
"nfo:hasRegionOfInterest" INTEGER NOT NULL,
"nfo:hasRegionOfInterest:graph" INTEGER);
CREATE TABLE "nfo:Media" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:count"
INTEGER, "nfo:count:graph" INTEGER, "nfo:duration" INTEGER,
"nfo:duration:graph" INTEGER, "nfo:compressionType" INTEGER,
"nfo:compressionType:graph" INTEGER, "nfo:hasMediaStream" INTEGER,
"nfo:hasMediaStream:graph" INTEGER, "nfo:bitDepth" INTEGER,
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"nfo:bitDepth:graph" INTEGER, "nfo:codec" TEXT COLLATE NOCASE,
"nfo:codec:graph" INTEGER, "nfo:encodedBy" TEXT COLLATE NOCASE,
"nfo:encodedBy:graph" INTEGER, "nfo:bitrateType" TEXT COLLATE NOCASE,
"nfo:bitrateType:graph" INTEGER, "nfo:averageBitrate" REAL,
"nfo:averageBitrate:graph" INTEGER, "nfo:genre" TEXT COLLATE NOCASE,
"nfo:genre:graph" INTEGER, "nfo:equipment" INTEGER,
"nfo:equipment:graph" INTEGER, "nfo:lastPlayedPosition" INTEGER,
"nfo:lastPlayedPosition:graph" INTEGER, "nmm:genre" TEXT COLLATE
NOCASE, "nmm:genre:graph" INTEGER, "nmm:skipCounter" INTEGER,
"nmm:skipCounter:graph" INTEGER, "nmm:dlnaProfile" TEXT COLLATE
NOCASE, "nmm:dlnaProfile:graph" INTEGER, "nmm:dlnaMime" TEXT COLLATE
NOCASE, "nmm:dlnaMime:graph" INTEGER, "nmm:uPnPShared" INTEGER,
"nmm:uPnPShared:graph" INTEGER, "mtp:credits" TEXT COLLATE NOCASE,
"mtp:credits:graph" INTEGER, "mtp:creator" TEXT COLLATE NOCASE,
"mtp:creator:graph" INTEGER);
CREATE TABLE "nfo:MediaFileListEntry" (ID INTEGER NOT NULL PRIMARY
KEY, "nfo:listPosition" REAL, "nfo:listPosition:graph" INTEGER,
"nfo:entryUrl" TEXT COLLATE NOCASE, "nfo:entryUrl:graph" INTEGER);
CREATE TABLE "nfo:MediaList" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:entryCounter" INTEGER, "nfo:entryCounter:graph" INTEGER,
"nfo:listDuration" INTEGER, "nfo:listDuration:graph" INTEGER);
CREATE TABLE "nfo:MediaList_nfo:hasMediaFileListEntry" (ID INTEGER NOT
NULL, "nfo:hasMediaFileListEntry" INTEGER NOT NULL,
"nfo:hasMediaFileListEntry:graph" INTEGER);
CREATE TABLE "nfo:MediaList_nfo:mediaListEntry" (ID INTEGER NOT NULL,
"nfo:mediaListEntry" INTEGER NOT NULL, "nfo:mediaListEntry:graph"
INTEGER);
CREATE TABLE "nfo:MediaStream" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Media_mtp:hidden" (ID INTEGER NOT NULL, "mtp:hidden"
INTEGER NOT NULL, "mtp:hidden:graph" INTEGER);
CREATE TABLE "nfo:Media_nmm:alternativeMedia" (ID INTEGER NOT NULL,
"nmm:alternativeMedia" INTEGER NOT NULL, "nmm:alternativeMedia:graph"
INTEGER);
CREATE TABLE "nfo:MindMap" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Note" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:OperatingSystem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Orientation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:PaginatedTextDocument" (ID INTEGER NOT NULL PRIMARY
KEY, "nfo:pageCount" INTEGER, "nfo:pageCount:graph" INTEGER);
CREATE TABLE "nfo:PlainTextDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Presentation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RasterImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RegionOfInterest" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:regionOfInterestX" REAL, "nfo:regionOfInterestX:graph" INTEGER,
"nfo:regionOfInterestY" REAL, "nfo:regionOfInterestY:graph" INTEGER,
"nfo:regionOfInterestWidth" REAL, "nfo:regionOfInterestWidth:graph"
INTEGER, "nfo:regionOfInterestHeight" REAL,
"nfo:regionOfInterestHeight:graph" INTEGER, "nfo:regionOfInterestType"

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INTEGER, "nfo:regionOfInterestType:graph" INTEGER, "nfo:roiRefersTo"
INTEGER, "nfo:roiRefersTo:graph" INTEGER);
CREATE TABLE "nfo:RegionOfInterestContent" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RemoteDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RemotePortAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Software" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:conflicts" INTEGER, "nfo:conflicts:graph" INTEGER,
"nfo:supercedes" INTEGER, "nfo:supercedes:graph" INTEGER,
"nfo:softwareIcon" INTEGER, "nfo:softwareIcon:graph" INTEGER,
"nfo:softwareCmdLine" TEXT COLLATE NOCASE,
"nfo:softwareCmdLine:graph" INTEGER);
CREATE TABLE "nfo:SoftwareApplication" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SoftwareCategory" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:softwareCategoryIcon" INTEGER, "nfo:softwareCategoryIcon:graph"
INTEGER);
CREATE TABLE "nfo:SoftwareItem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SoftwareService" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SourceCode" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:commentCharacterCount" INTEGER, "nfo:commentCharacterCount:graph"
INTEGER, "nfo:programmingLanguage" TEXT COLLATE NOCASE,
"nfo:programmingLanguage:graph" INTEGER, "nfo:definesClass" TEXT
COLLATE NOCASE, "nfo:definesClass:graph" INTEGER,
"nfo:definesFunction" TEXT COLLATE NOCASE,
"nfo:definesFunction:graph" INTEGER, "nfo:definesGlobalVariable" TEXT
COLLATE NOCASE, "nfo:definesGlobalVariable:graph" INTEGER);
CREATE TABLE "nfo:Spreadsheet" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:TextDocument" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:wordCount" INTEGER, "nfo:wordCount:graph" INTEGER,
"nfo:lineCount" INTEGER, "nfo:lineCount:graph" INTEGER,
"nfo:characterCount" INTEGER, "nfo:characterCount:graph" INTEGER);
CREATE TABLE "nfo:Trash" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:VectorImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Video" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:frameRate" REAL, "nfo:frameRate:graph" INTEGER, "nfo:frameCount"
INTEGER, "nfo:frameCount:graph" INTEGER, "nfo:averageVideoBitrate"
REAL, "nfo:averageVideoBitrate:graph" INTEGER);
CREATE TABLE "nfo:Visual" (ID INTEGER NOT NULL PRIMARY KEY,
"nie:contentCreated" INTEGER, "nie:contentCreated:graph" INTEGER,
"nie:contentCreated:localDate" INTEGER, "nie:contentCreated:localTime"
INTEGER, "nfo:aspectRatio" REAL, "nfo:aspectRatio:graph" INTEGER,
"nfo:heading" REAL, "nfo:heading:graph" INTEGER, "nfo:tilt" REAL,
"nfo:tilt:graph" INTEGER, "nfo:interlaceMode" INTEGER,
"nfo:interlaceMode:graph" INTEGER, "nfo:height" INTEGER,
"nfo:height:graph" INTEGER, "nfo:width" INTEGER, "nfo:width:graph"
INTEGER, "nfo:colorDepth" INTEGER, "nfo:colorDepth:graph" INTEGER);
CREATE TABLE "nfo:WebHistory" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:domain" TEXT COLLATE NOCASE, "nfo:domain:graph" INTEGER,
"nfo:uri" TEXT COLLATE NOCASE, "nfo:uri:graph" INTEGER);
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CREATE TABLE "nfo:Website" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nid3:ID3Audio" (ID INTEGER NOT NULL PRIMARY KEY,
"nid3:title" TEXT COLLATE NOCASE, "nid3:title:graph" INTEGER,
"nid3:albumTitle" TEXT COLLATE NOCASE, "nid3:albumTitle:graph"
INTEGER, "nid3:contentType" TEXT COLLATE NOCASE,
"nid3:contentType:graph" INTEGER, "nid3:length" INTEGER,
"nid3:length:graph" INTEGER, "nid3:recordingYear" INTEGER,
"nid3:recordingYear:graph" INTEGER, "nid3:trackNumber" TEXT COLLATE
NOCASE, "nid3:trackNumber:graph" INTEGER, "nid3:partOfSet" TEXT
COLLATE NOCASE, "nid3:partOfSet:graph" INTEGER, "nid3:comments" TEXT
COLLATE NOCASE, "nid3:comments:graph" INTEGER);
CREATE TABLE "nid3:ID3Audio_nid3:leadArtist" (ID INTEGER NOT NULL,
"nid3:leadArtist" INTEGER NOT NULL, "nid3:leadArtist:graph" INTEGER);
CREATE TABLE "nie:DataObject" (ID INTEGER NOT NULL PRIMARY KEY,
"nie:url" TEXT COLLATE NOCASE UNIQUE, "nie:url:graph" INTEGER,
"nie:byteSize" INTEGER, "nie:byteSize:graph" INTEGER,
"nie:interpretedAs" INTEGER, "nie:interpretedAs:graph" INTEGER,
"nie:lastRefreshed" INTEGER, "nie:lastRefreshed:graph" INTEGER,
"nie:lastRefreshed:localDate" INTEGER, "nie:lastRefreshed:localTime"
INTEGER, "nie:created" INTEGER, "nie:created:graph" INTEGER,
"nie:created:localDate" INTEGER, "nie:created:localTime" INTEGER,
"nfo:belongsToContainer" INTEGER, "nfo:belongsToContainer:graph"
INTEGER, "tracker:available" INTEGER, "tracker:available:graph"
INTEGER);
CREATE TABLE "nie:DataObject_nie:dataSource" (ID INTEGER NOT NULL,
"nie:dataSource" INTEGER NOT NULL, "nie:dataSource:graph" INTEGER);
CREATE TABLE "nie:DataObject_nie:isPartOf" (ID INTEGER NOT NULL,
"nie:isPartOf" INTEGER NOT NULL, "nie:isPartOf:graph" INTEGER);
CREATE TABLE "nie:DataSource" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nie:InformationElement" (ID INTEGER NOT NULL PRIMARY
KEY, "nie:title" TEXT COLLATE NOCASE, "nie:title:graph" INTEGER,
"nie:contentLastModified" INTEGER, "nie:contentLastModified:graph"
INTEGER, "nie:contentLastModified:localDate" INTEGER,
"nie:contentLastModified:localTime" INTEGER, "nie:subject" TEXT
COLLATE NOCASE, "nie:subject:graph" INTEGER, "nie:mimeType" TEXT
COLLATE NOCASE, "nie:mimeType:graph" INTEGER, "nie:language" TEXT
COLLATE NOCASE, "nie:language:graph" INTEGER, "nie:plainTextContent"
TEXT COLLATE NOCASE, "nie:plainTextContent:graph" INTEGER,
"nie:legal" TEXT COLLATE NOCASE, "nie:legal:graph" INTEGER,
"nie:generator" TEXT COLLATE NOCASE, "nie:generator:graph" INTEGER,
"nie:description" TEXT COLLATE NOCASE, "nie:description:graph"
INTEGER, "nie:disclaimer" TEXT COLLATE NOCASE, "nie:disclaimer:graph"
INTEGER, "nie:depends" INTEGER, "nie:depends:graph" INTEGER,
"nie:links" INTEGER, "nie:links:graph" INTEGER, "nie:copyright" TEXT
COLLATE NOCASE, "nie:copyright:graph" INTEGER, "nie:comment" TEXT
COLLATE NOCASE, "nie:comment:graph" INTEGER, "nie:isStoredAs"
INTEGER, "nie:isStoredAs:graph" INTEGER, "nie:version" TEXT COLLATE
NOCASE, "nie:version:graph" INTEGER, "nie:contentCreated" INTEGER,

"nie:contentCreated:graph" INTEGER, "nie:contentCreated:localDate"
INTEGER, "nie:contentCreated:localTime" INTEGER, "nie:contentAccessed"
INTEGER, "nie:contentAccessed:graph" INTEGER,
"nie:contentAccessed:localDate" INTEGER,
"nie:contentAccessed:localTime" INTEGER, "nie:license" TEXT COLLATE
NOCASE, "nie:license:graph" INTEGER, "nie:identifier" TEXT COLLATE
NOCASE, "nie:identifier:graph" INTEGER, "nie:licenseType" TEXT
COLLATE NOCASE, "nie:licenseType:graph" INTEGER, "nie:characterSet"
TEXT COLLATE NOCASE, "nie:characterSet:graph" INTEGER,
"nie:contentSize" INTEGER, "nie:contentSize:graph" INTEGER,
"nie:rootElementOf" INTEGER, "nie:rootElementOf:graph" INTEGER,
"nie:usageCounter" INTEGER, "nie:usageCounter:graph" INTEGER,
"nco:publisher" INTEGER, "nco:publisher:graph" INTEGER,
"nfo:isContentEncrypted" INTEGER, "nfo:isContentEncrypted:graph"
INTEGER, "slo:location" INTEGER, "slo:location:graph" INTEGER,
"nfo:isBootable" INTEGER, "nfo:isBootable:graph" INTEGER, "osinfo:id"
TEXT COLLATE NOCASE, "osinfo:id:graph" INTEGER, "osinfo:mediaId" TEXT
COLLATE NOCASE, "osinfo:mediaId:graph" INTEGER);
CREATE TABLE "nie:InformationElement_mlo:location" (ID INTEGER NOT
NULL, "mlo:location" INTEGER NOT NULL, "mlo:location:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nao:hasProperty" (ID INTEGER NOT
NULL, "nao:hasProperty" INTEGER NOT NULL, "nao:hasProperty:graph"
INTEGER);
CREATE TABLE "nie:InformationElement_nco:contributor" (ID INTEGER NOT
NULL, "nco:contributor" INTEGER NOT NULL, "nco:contributor:graph"
INTEGER);
CREATE TABLE "nie:InformationElement_nco:creator" (ID INTEGER NOT
NULL, "nco:creator" INTEGER NOT NULL, "nco:creator:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:hasLogicalPart" (ID INTEGER
NOT NULL, "nie:hasLogicalPart" INTEGER NOT NULL,
"nie:hasLogicalPart:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:hasPart" (ID INTEGER NOT
NULL, "nie:hasPart" INTEGER NOT NULL, "nie:hasPart:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:informationElementDate" (ID
INTEGER NOT NULL, "nie:informationElementDate" INTEGER NOT NULL,
"nie:informationElementDate:graph" INTEGER,
"nie:informationElementDate:localDate" INTEGER NOT NULL,
"nie:informationElementDate:localTime" INTEGER NOT NULL);
CREATE TABLE "nie:InformationElement_nie:isLogicalPartOf" (ID INTEGER
NOT NULL, "nie:isLogicalPartOf" INTEGER NOT NULL,
"nie:isLogicalPartOf:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:keyword" (ID INTEGER NOT
NULL, "nie:keyword" TEXT NOT NULL, "nie:keyword:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:relatedTo" (ID INTEGER NOT
NULL, "nie:relatedTo" INTEGER NOT NULL, "nie:relatedTo:graph"
INTEGER);
CREATE TABLE "nmm:AnalogRadio" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:modulation" INTEGER, "nmm:modulation:graph" INTEGER,

"nmm:frequency" INTEGER, "nmm:frequency:graph" INTEGER);
CREATE TABLE "nmm:Artist" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:artistName" TEXT COLLATE NOCASE, "nmm:artistName:graph"
INTEGER);
CREATE TABLE "nmm:DigitalRadio" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:streamingBitrate" INTEGER, "nmm:streamingBitrate:graph" INTEGER,
"nmm:encoding" TEXT COLLATE NOCASE, "nmm:encoding:graph" INTEGER,
"nmm:protocol" TEXT COLLATE NOCASE, "nmm:protocol:graph" INTEGER);
CREATE TABLE "nmm:Flash" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:ImageList" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:MeteringMode" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:MusicAlbum" (ID INTEGER NOT NULL PRIMARY KEY,
"nie:title" TEXT COLLATE NOCASE, "nie:title:graph" INTEGER,
"nmm:albumTrackCount" INTEGER, "nmm:albumTrackCount:graph" INTEGER,
"nmm:albumTitle" TEXT COLLATE NOCASE, "nmm:albumTitle:graph" INTEGER,
"nmm:albumDuration" INTEGER, "nmm:albumDuration:graph" INTEGER,
"nmm:albumGain" INTEGER, "nmm:albumGain:graph" INTEGER,
"nmm:albumPeakGain" INTEGER, "nmm:albumPeakGain:graph" INTEGER);
CREATE TABLE "nmm:MusicAlbumDisc" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:albumDiscAlbum" INTEGER, "nmm:albumDiscAlbum:graph" INTEGER,
"nmm:musicCDIdentifier" TEXT COLLATE NOCASE,
"nmm:musicCDIdentifier:graph" INTEGER, "nmm:setNumber" INTEGER,
"nmm:setNumber:graph" INTEGER);
CREATE TABLE "nmm:MusicAlbum_nmm:albumArtist" (ID INTEGER NOT NULL,
"nmm:albumArtist" INTEGER NOT NULL, "nmm:albumArtist:graph" INTEGER);
CREATE TABLE "nmm:MusicPiece" (ID INTEGER NOT NULL PRIMARY KEY,
"nie:title" TEXT COLLATE NOCASE, "nie:title:graph" INTEGER,
"nmm:musicAlbum" INTEGER, "nmm:musicAlbum:graph" INTEGER,
"nmm:musicAlbumDisc" INTEGER, "nmm:musicAlbumDisc:graph" INTEGER,
"nmm:beatsPerMinute" INTEGER, "nmm:beatsPerMinute:graph" INTEGER,
"nmm:performer" INTEGER, "nmm:performer:graph" INTEGER, "nmm:composer"
INTEGER, "nmm:composer:graph" INTEGER, "nmm:lyricist" INTEGER,
"nmm:lyricist:graph" INTEGER, "nmm:trackNumber" INTEGER,
"nmm:trackNumber:graph" INTEGER,
"nmm:internationalStandardRecordingCode" TEXT COLLATE NOCASE,
"nmm:internationalStandardRecordingCode:graph" INTEGER);
CREATE TABLE "nmm:MusicPiece_nmm:lyrics" (ID INTEGER NOT NULL,
"nmm:lyrics" INTEGER NOT NULL, "nmm:lyrics:graph" INTEGER);
CREATE TABLE "nmm:Photo" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:exposureTime" REAL, "nmm:exposureTime:graph" INTEGER, "nmm:flash"
INTEGER, "nmm:flash:graph" INTEGER, "nmm:fnumber" REAL,
"nmm:fnumber:graph" INTEGER, "nmm:focalLength" REAL,
"nmm:focalLength:graph" INTEGER, "nmm:isoSpeed" REAL,
"nmm:isoSpeed:graph" INTEGER, "nmm:meteringMode" INTEGER,
"nmm:meteringMode:graph" INTEGER, "nmm:whiteBalance" INTEGER,
"nmm:whiteBalance:graph" INTEGER, "nmm:isCropped" INTEGER,
"nmm:isCropped:graph" INTEGER, "nmm:isColorCorrected" INTEGER,
"nmm:isColorCorrected:graph" INTEGER);

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CREATE TABLE "nmm:Playlist" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:RadioModulation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:RadioStation" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:radioIcon" INTEGER, "nmm:radioIcon:graph" INTEGER, "nmm:radioPTY"
INTEGER, "nmm:radioPTY:graph" INTEGER);
CREATE TABLE "nmm:RadioStation_nmm:carrier" (ID INTEGER NOT NULL,
"nmm:carrier" INTEGER NOT NULL, "nmm:carrier:graph" INTEGER);
CREATE TABLE "nmm:SynchronizedText" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:isForHearingImpaired" INTEGER, "nmm:isForHearingImpaired:graph"
INTEGER);
CREATE TABLE "nmm:Video" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:videoAlbum" INTEGER, "nmm:videoAlbum:graph" INTEGER,
"nmm:isSeries" INTEGER, "nmm:isSeries:graph" INTEGER, "nmm:season"
INTEGER, "nmm:season:graph" INTEGER, "nmm:episodeNumber" INTEGER,
"nmm:episodeNumber:graph" INTEGER, "nmm:runTime" INTEGER,
"nmm:runTime:graph" INTEGER, "nmm:synopsis" TEXT COLLATE NOCASE,
"nmm:synopsis:graph" INTEGER, "nmm:MPAARating" TEXT COLLATE NOCASE,
"nmm:MPAARating:graph" INTEGER, "nmm:category" TEXT COLLATE NOCASE,
"nmm:category:graph" INTEGER, "nmm:producedBy" INTEGER,
"nmm:producedBy:graph" INTEGER, "nmm:hasSubtitle" INTEGER,
"nmm:hasSubtitle:graph" INTEGER, "nmm:isContentEncrypted" INTEGER,
"nmm:isContentEncrypted:graph" INTEGER, "mtp:fourCC" TEXT COLLATE
NOCASE, "mtp:fourCC:graph" INTEGER, "mtp:waveformat" TEXT COLLATE
NOCASE, "mtp:waveformat:graph" INTEGER);
CREATE TABLE "nmm:Video_mtp:scantype" (ID INTEGER NOT NULL,
"mtp:scantype" INTEGER NOT NULL, "mtp:scantype:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:director" (ID INTEGER NOT NULL,
"nmm:director" INTEGER NOT NULL, "nmm:director:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:leadActor" (ID INTEGER NOT NULL,
"nmm:leadActor" INTEGER NOT NULL, "nmm:leadActor:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:subtitle" (ID INTEGER NOT NULL,
"nmm:subtitle" INTEGER NOT NULL, "nmm:subtitle:graph" INTEGER);
CREATE TABLE "nmm:WhiteBalance" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Attachment" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Call" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:sentDate" INTEGER, "nmo:sentDate:graph" INTEGER,
"nmo:sentDate:localDate" INTEGER, "nmo:sentDate:localTime" INTEGER,
"nmo:duration" INTEGER, "nmo:duration:graph" INTEGER);
CREATE TABLE "nmo:CommunicationChannel" (ID INTEGER NOT NULL PRIMARY
KEY, "nmo:lastMessageDate" INTEGER, "nmo:lastMessageDate:graph"
INTEGER, "nmo:lastMessageDate:localDate" INTEGER,
"nmo:lastMessageDate:localTime" INTEGER,
"nmo:lastSuccessfulMessageDate" INTEGER,
"nmo:lastSuccessfulMessageDate:graph" INTEGER,
"nmo:lastSuccessfulMessageDate:localDate" INTEGER,
"nmo:lastSuccessfulMessageDate:localTime" INTEGER);
CREATE TABLE "nmo:CommunicationChannel_nmo:hasParticipant" (ID INTEGER
NOT NULL, "nmo:hasParticipant" INTEGER NOT NULL,
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"nmo:hasParticipant:graph" INTEGER);
CREATE TABLE "nmo:Conversation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:DeliveryStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Email" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:hasContent" INTEGER, "nmo:hasContent:graph" INTEGER,
"nmo:isFlagged" INTEGER, "nmo:isFlagged:graph" INTEGER, "nmo:isRecent"
INTEGER, "nmo:isRecent:graph" INTEGER, "nmo:status" TEXT COLLATE
NOCASE, "nmo:status:graph" INTEGER, "nmo:responseType" TEXT COLLATE
NOCASE, "nmo:responseType:graph" INTEGER);
CREATE TABLE "nmo:Email_nmo:contentMimeType" (ID INTEGER NOT NULL,
"nmo:contentMimeType" TEXT NOT NULL, "nmo:contentMimeType:graph"
INTEGER);
CREATE TABLE "nmo:IMMessage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:MMSMessage" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:mmsHasContent" INTEGER, "nmo:mmsHasContent:graph" INTEGER);
CREATE TABLE "nmo:MailAccount" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:accountName" TEXT COLLATE NOCASE, "nmo:accountName:graph"
INTEGER, "nmo:accountDisplayName" TEXT COLLATE NOCASE,
"nmo:accountDisplayName:graph" INTEGER, "nmo:fromAddress" INTEGER,
"nmo:fromAddress:graph" INTEGER, "nmo:signature" TEXT COLLATE NOCASE,
"nmo:signature:graph" INTEGER);
CREATE TABLE "nmo:MailFolder" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:folderName" TEXT COLLATE NOCASE, "nmo:folderName:graph" INTEGER,
"nmo:serverCount" INTEGER, "nmo:serverCount:graph" INTEGER,
"nmo:serverUnreadCount" INTEGER, "nmo:serverUnreadCount:graph"
INTEGER);
CREATE TABLE "nmo:MailboxDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Message" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:sentDate" INTEGER, "nmo:sentDate:graph" INTEGER,
"nmo:sentDate:localDate" INTEGER, "nmo:sentDate:localTime" INTEGER,
"nmo:from" INTEGER, "nmo:from:graph" INTEGER, "nmo:isAnswered"
INTEGER, "nmo:isAnswered:graph" INTEGER, "nmo:isDeleted" INTEGER,
"nmo:isDeleted:graph" INTEGER, "nmo:isDraft" INTEGER,
"nmo:isDraft:graph" INTEGER, "nmo:isRead" INTEGER, "nmo:isRead:graph"
INTEGER, "nmo:isSent" INTEGER, "nmo:isSent:graph" INTEGER,
"nmo:isEmergency" INTEGER, "nmo:isEmergency:graph" INTEGER,
"nmo:htmlMessageContent" TEXT COLLATE NOCASE,
"nmo:htmlMessageContent:graph" INTEGER, "nmo:messageId" TEXT COLLATE
NOCASE, "nmo:messageId:graph" INTEGER, "nmo:messageSubject" TEXT
COLLATE NOCASE, "nmo:messageSubject:graph" INTEGER,
"nmo:receivedDate" INTEGER, "nmo:receivedDate:graph" INTEGER,
"nmo:receivedDate:localDate" INTEGER, "nmo:receivedDate:localTime"
INTEGER, "nmo:replyTo" INTEGER, "nmo:replyTo:graph" INTEGER,
"nmo:sender" INTEGER, "nmo:sender:graph" INTEGER, "nmo:conversation"
INTEGER, "nmo:conversation:graph" INTEGER, "nmo:communicationChannel"
INTEGER, "nmo:communicationChannel:graph" INTEGER,
"nmo:deliveryStatus" INTEGER, "nmo:deliveryStatus:graph" INTEGER,
"nmo:reportDelivery" INTEGER, "nmo:reportDelivery:graph" INTEGER,

"nmo:sentWithReportRead" INTEGER, "nmo:sentWithReportRead:graph"
INTEGER, "nmo:reportReadStatus" INTEGER, "nmo:reportReadStatus:graph"
INTEGER, "nmo:mustAnswerReportRead" INTEGER,
"nmo:mustAnswerReportRead:graph" INTEGER, "nmo:mmsId" TEXT COLLATE
NOCASE, "nmo:mmsId:graph" INTEGER);
CREATE TABLE "nmo:MessageHeader" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:headerName" TEXT COLLATE NOCASE, "nmo:headerName:graph" INTEGER,
"nmo:headerValue" TEXT COLLATE NOCASE, "nmo:headerValue:graph"
INTEGER);
CREATE TABLE "nmo:Message_nmo:bcc" (ID INTEGER NOT NULL, "nmo:bcc"
INTEGER NOT NULL, "nmo:bcc:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:cc" (ID INTEGER NOT NULL, "nmo:cc"
INTEGER NOT NULL, "nmo:cc:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:hasAttachment" (ID INTEGER NOT NULL,
"nmo:hasAttachment" INTEGER NOT NULL, "nmo:hasAttachment:graph"
INTEGER);
CREATE TABLE "nmo:Message_nmo:inReplyTo" (ID INTEGER NOT NULL,
"nmo:inReplyTo" INTEGER NOT NULL, "nmo:inReplyTo:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:messageHeader" (ID INTEGER NOT NULL,
"nmo:messageHeader" INTEGER NOT NULL, "nmo:messageHeader:graph"
INTEGER);
CREATE TABLE "nmo:Message_nmo:recipient" (ID INTEGER NOT NULL,
"nmo:recipient" INTEGER NOT NULL, "nmo:recipient:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:references" (ID INTEGER NOT NULL,
"nmo:references" INTEGER NOT NULL, "nmo:references:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:to" (ID INTEGER NOT NULL, "nmo:to"
INTEGER NOT NULL, "nmo:to:graph" INTEGER);
CREATE TABLE "nmo:MimePart" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:charSet" TEXT COLLATE NOCASE, "nmo:charSet:graph" INTEGER,
"nmo:contentId" TEXT COLLATE NOCASE, "nmo:contentId:graph" INTEGER,
"nmo:contentTransferEncoding" TEXT COLLATE NOCASE,
"nmo:contentTransferEncoding:graph" INTEGER, "nmo:contentDescription"
TEXT COLLATE NOCASE, "nmo:contentDescription:graph" INTEGER,
"nmo:contentDisposition" TEXT COLLATE NOCASE,
"nmo:contentDisposition:graph" INTEGER);
CREATE TABLE "nmo:MimePart_nmo:mimeHeader" (ID INTEGER NOT NULL,
"nmo:mimeHeader" INTEGER NOT NULL, "nmo:mimeHeader:graph" INTEGER);
CREATE TABLE "nmo:Multipart" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Multipart_nmo:partBoundary" (ID INTEGER NOT NULL,
"nmo:partBoundary" TEXT NOT NULL, "nmo:partBoundary:graph" INTEGER);
CREATE TABLE "nmo:PermanentChannel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:PhoneMessage" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:fromVCard" INTEGER, "nmo:fromVCard:graph" INTEGER, "nmo:encoding"
TEXT COLLATE NOCASE, "nmo:encoding:graph" INTEGER,
"nmo:phoneMessageId" INTEGER, "nmo:phoneMessageId:graph" INTEGER,
"nmo:validityPeriod" INTEGER, "nmo:validityPeriod:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder" (ID INTEGER NOT NULL PRIMARY
KEY, "nmo:phoneMessageFolderId" TEXT COLLATE NOCASE,

"nmo:phoneMessageFolderId:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder_nmo:containsPhoneMessage" (ID
INTEGER NOT NULL, "nmo:containsPhoneMessage" INTEGER NOT NULL,
"nmo:containsPhoneMessage:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder"
(ID INTEGER NOT NULL, "nmo:containsPhoneMessageFolder" INTEGER NOT
NULL, "nmo:containsPhoneMessageFolder:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessage_nmo:toVCard" (ID INTEGER NOT NULL,
"nmo:toVCard" INTEGER NOT NULL, "nmo:toVCard:graph" INTEGER);
CREATE TABLE "nmo:ReportReadStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:SMSMessage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:TransientChannel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:VOIPCall" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nrl:InverseFunctionalProperty" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "osinfo:Installer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "poi:ObjectOfInterest" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "rdf:Property" (ID INTEGER NOT NULL PRIMARY KEY,
"rdfs:domain" INTEGER, "rdfs:domain:graph" INTEGER, "rdfs:range"
INTEGER, "rdfs:range:graph" INTEGER, "tracker:indexed" INTEGER,
"tracker:indexed:graph" INTEGER, "tracker:secondaryIndex" INTEGER,
"tracker:secondaryIndex:graph" INTEGER, "tracker:fulltextIndexed"
INTEGER, "tracker:fulltextIndexed:graph" INTEGER,
"tracker:fulltextNoLimit" INTEGER, "tracker:fulltextNoLimit:graph"
INTEGER, "tracker:transient" INTEGER, "tracker:transient:graph"
INTEGER, "tracker:weight" INTEGER, "tracker:weight:graph" INTEGER,
"tracker:defaultValue" TEXT COLLATE NOCASE,
"tracker:defaultValue:graph" INTEGER, "nrl:maxCardinality" INTEGER,
"nrl:maxCardinality:graph" INTEGER, "tracker:writeback" INTEGER,
"tracker:writeback:graph" INTEGER, "tracker:forceJournal" INTEGER,
"tracker:forceJournal:graph" INTEGER);
CREATE TABLE "rdf:Property_rdfs:subPropertyOf" (ID INTEGER NOT NULL,
"rdfs:subPropertyOf" INTEGER NOT NULL, "rdfs:subPropertyOf:graph"
INTEGER);
CREATE TABLE "rdfs:Class" (ID INTEGER NOT NULL PRIMARY KEY,
"tracker:notify" INTEGER, "tracker:notify:graph" INTEGER);
CREATE TABLE "rdfs:Class_rdfs:subClassOf" (ID INTEGER NOT NULL,
"rdfs:subClassOf" INTEGER NOT NULL, "rdfs:subClassOf:graph" INTEGER);
CREATE TABLE "rdfs:Class_tracker:domainIndex" (ID INTEGER NOT NULL,
"tracker:domainIndex" INTEGER NOT NULL, "tracker:domainIndex:graph"
INTEGER);
CREATE TABLE "rdfs:Literal" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "rdfs:Resource" (ID INTEGER NOT NULL PRIMARY KEY,
Available INTEGER NOT NULL, "rdfs:comment" TEXT COLLATE NOCASE,
"rdfs:comment:graph" INTEGER, "rdfs:label" TEXT COLLATE NOCASE,
"rdfs:label:graph" INTEGER, "tracker:added" INTEGER,
"tracker:added:graph" INTEGER, "tracker:added:localDate" INTEGER,
"tracker:added:localTime" INTEGER, "tracker:modified" INTEGER,
"tracker:modified:graph" INTEGER, "tracker:damaged" INTEGER,

"tracker:damaged:graph" INTEGER, "dc:title" TEXT COLLATE NOCASE,
"dc:title:graph" INTEGER, "dc:creator" TEXT COLLATE NOCASE,
"dc:creator:graph" INTEGER, "dc:subject" TEXT COLLATE NOCASE,
"dc:subject:graph" INTEGER, "dc:description" TEXT COLLATE NOCASE,
"dc:description:graph" INTEGER, "dc:publisher" TEXT COLLATE NOCASE,
"dc:publisher:graph" INTEGER, "dc:type" TEXT COLLATE NOCASE,
"dc:type:graph" INTEGER, "dc:format" TEXT COLLATE NOCASE,
"dc:format:graph" INTEGER, "dc:identifier" TEXT COLLATE NOCASE,
"dc:identifier:graph" INTEGER, "dc:language" TEXT COLLATE NOCASE,
"dc:language:graph" INTEGER, "dc:coverage" TEXT COLLATE NOCASE,
"dc:coverage:graph" INTEGER, "dc:rights" TEXT COLLATE NOCASE,
"dc:rights:graph" INTEGER, "nao:identifier" TEXT COLLATE NOCASE,
"nao:identifier:graph" INTEGER, "nao:numericRating" REAL,
"nao:numericRating:graph" INTEGER, "nao:lastModified" INTEGER,
"nao:lastModified:graph" INTEGER, "nao:lastModified:localDate"
INTEGER, "nao:lastModified:localTime" INTEGER);
CREATE TABLE "rdfs:Resource_dc:contributor" (ID INTEGER NOT NULL,
"dc:contributor" TEXT NOT NULL, "dc:contributor:graph" INTEGER);
CREATE TABLE "rdfs:Resource_dc:date" (ID INTEGER NOT NULL, "dc:date"
INTEGER NOT NULL, "dc:date:graph" INTEGER, "dc:date:localDate" INTEGER
NOT NULL, "dc:date:localTime" INTEGER NOT NULL);
CREATE TABLE "rdfs:Resource_dc:relation" (ID INTEGER NOT NULL,
"dc:relation" TEXT NOT NULL, "dc:relation:graph" INTEGER);
CREATE TABLE "rdfs:Resource_dc:source" (ID INTEGER NOT NULL,
"dc:source" INTEGER NOT NULL, "dc:source:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:deprecated" (ID INTEGER NOT NULL,
"nao:deprecated" INTEGER NOT NULL, "nao:deprecated:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:hasTag" (ID INTEGER NOT NULL,
"nao:hasTag" INTEGER NOT NULL, "nao:hasTag:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:isRelated" (ID INTEGER NOT NULL,
"nao:isRelated" INTEGER NOT NULL, "nao:isRelated:graph" INTEGER);
CREATE TABLE "rdfs:Resource_rdf:type" (ID INTEGER NOT NULL, "rdf:type"
INTEGER NOT NULL, "rdf:type:graph" INTEGER);
CREATE TABLE "scal:AccessLevel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:AttendanceStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Attendee" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:attendanceStatus" INTEGER, "scal:attendanceStatus:graph"
INTEGER, "scal:attendeeRole" INTEGER, "scal:attendeeRole:graph"
INTEGER, "scal:attendeeContact" INTEGER, "scal:attendeeContact:graph"
INTEGER, "scal:rsvp" INTEGER, "scal:rsvp:graph" INTEGER,
"scal:calendarUserType" INTEGER, "scal:calendarUserType:graph"
INTEGER);
CREATE TABLE "scal:AttendeeRole" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Attendee_scal:delegated-from" (ID INTEGER NOT NULL,
"scal:delegated-from" INTEGER NOT NULL, "scal:delegated-from:graph"
INTEGER);
CREATE TABLE "scal:Attendee_scal:delegated-to" (ID INTEGER NOT NULL,
"scal:delegated-to" INTEGER NOT NULL, "scal:delegated-to:graph"

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INTEGER);
CREATE TABLE "scal:Attendee_scal:member" (ID INTEGER NOT NULL,
"scal:member" INTEGER NOT NULL, "scal:member:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:sent-by" (ID INTEGER NOT NULL,
"scal:sent-by" INTEGER NOT NULL, "scal:sent-by:graph" INTEGER);
CREATE TABLE "scal:Calendar" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:CalendarAlarm" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:alarmOffset" INTEGER, "scal:alarmOffset:graph" INTEGER);
CREATE TABLE "scal:CalendarAlarm_scal:alarmAttendee" (ID INTEGER NOT
NULL, "scal:alarmAttendee" INTEGER NOT NULL,
"scal:alarmAttendee:graph" INTEGER);
CREATE TABLE "scal:CalendarItem" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:textLocation" INTEGER, "scal:textLocation:graph" INTEGER,
"scal:resources" TEXT COLLATE NOCASE, "scal:resources:graph" INTEGER,
"scal:transparency" INTEGER, "scal:transparency:graph" INTEGER,
"scal:calendarItemAlarm" INTEGER, "scal:calendarItemAlarm:graph"
INTEGER, "scal:start" INTEGER, "scal:start:graph" INTEGER, "scal:end"
INTEGER, "scal:end:graph" INTEGER, "scal:isAllDay" INTEGER,
"scal:isAllDay:graph" INTEGER, "scal:priority" INTEGER,
"scal:priority:graph" INTEGER, "scal:rdate" INTEGER,
"scal:rdate:graph" INTEGER, "scal:exceptionRDate" INTEGER,
"scal:exceptionRDate:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:access" (ID INTEGER NOT NULL,
"scal:access" INTEGER NOT NULL, "scal:access:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:attachment" (ID INTEGER NOT NULL,
"scal:attachment" INTEGER NOT NULL, "scal:attachment:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:attendee" (ID INTEGER NOT NULL,
"scal:attendee" INTEGER NOT NULL, "scal:attendee:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:belongsToCalendar" (ID INTEGER
NOT NULL, "scal:belongsToCalendar" INTEGER NOT NULL,
"scal:belongsToCalendar:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:contact" (ID INTEGER NOT NULL,
"scal:contact" INTEGER NOT NULL, "scal:contact:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:rrule" (ID INTEGER NOT NULL,
"scal:rrule" INTEGER NOT NULL, "scal:rrule:graph" INTEGER);
CREATE TABLE "scal:CalendarUserType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Event" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:eventStatus" INTEGER, "scal:eventStatus:graph" INTEGER);
CREATE TABLE "scal:EventStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Journal" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:journalStatus" INTEGER, "scal:journalStatus:graph" INTEGER);
CREATE TABLE "scal:JournalStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RSVPValues" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RecurrenceRule" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:recurrencePattern" TEXT COLLATE NOCASE,
"scal:recurrencePattern:graph" INTEGER, "scal:recurrenceStartDate"
INTEGER, "scal:recurrenceStartDate:graph" INTEGER, "scal:exception"
INTEGER, "scal:exception:graph" INTEGER);
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CREATE TABLE "scal:TimePoint" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:dateTime" INTEGER, "scal:dateTime:graph" INTEGER,
"scal:dateTime:localDate" INTEGER, "scal:dateTime:localTime" INTEGER,
"scal:TimeZone" TEXT COLLATE NOCASE, "scal:TimeZone:graph" INTEGER);
CREATE TABLE "scal:Todo" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:todoStatus" INTEGER, "scal:todoStatus:graph" INTEGER, "scal:due"
INTEGER, "scal:due:graph" INTEGER, "scal:completed" INTEGER,
"scal:completed:graph" INTEGER, "scal:percentComplete" INTEGER,
"scal:percentComplete:graph" INTEGER);
CREATE TABLE "scal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:TransparencyValues" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "slo:GeoLocation" (ID INTEGER NOT NULL PRIMARY KEY,
"slo:latitude" REAL, "slo:latitude:graph" INTEGER, "slo:longitude"
REAL, "slo:longitude:graph" INTEGER, "slo:verticalAccuracy" REAL,
"slo:verticalAccuracy:graph" INTEGER, "slo:horizontalAccuracy" REAL,
"slo:horizontalAccuracy:graph" INTEGER, "slo:altitude" REAL,
"slo:altitude:graph" INTEGER, "slo:boundingLatitudeMin" REAL,
"slo:boundingLatitudeMin:graph" INTEGER, "slo:boundingLatitudeMax"
REAL, "slo:boundingLatitudeMax:graph" INTEGER,
"slo:boundingLongitudeMin" REAL, "slo:boundingLongitudeMin:graph"
INTEGER, "slo:boundingLongitudeMax" REAL,
"slo:boundingLongitudeMax:graph" INTEGER, "slo:radius" REAL,
"slo:radius:graph" INTEGER, "slo:timestamp" INTEGER,
"slo:timestamp:graph" INTEGER, "slo:timestamp:localDate" INTEGER,
"slo:timestamp:localTime" INTEGER, "slo:postalAddress" INTEGER,
"slo:postalAddress:graph" INTEGER);
CREATE TABLE "slo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY,
"slo:iconUrl" INTEGER, "slo:iconUrl:graph" INTEGER);
CREATE TABLE "slo:LandmarkCategory" (ID INTEGER NOT NULL PRIMARY KEY,
"slo:isRemovable" INTEGER, "slo:isRemovable:graph" INTEGER,
"slo:categoryIconUrl" INTEGER, "slo:categoryIconUrl:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:belongsToCategory" (ID INTEGER NOT
NULL, "slo:belongsToCategory" INTEGER NOT NULL,
"slo:belongsToCategory:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:hasContact" (ID INTEGER NOT NULL,
"slo:hasContact" INTEGER NOT NULL, "slo:hasContact:graph" INTEGER);
CREATE TABLE "slo:Route" (ID INTEGER NOT NULL PRIMARY KEY,
"slo:startTime" INTEGER, "slo:startTime:graph" INTEGER,
"slo:startTime:localDate" INTEGER, "slo:startTime:localTime" INTEGER,
"slo:endTime" INTEGER, "slo:endTime:graph" INTEGER,
"slo:endTime:localDate" INTEGER, "slo:endTime:localTime" INTEGER);
CREATE TABLE "slo:Route_slo:routeDetails" (ID INTEGER NOT NULL,
"slo:routeDetails" TEXT NOT NULL, "slo:routeDetails:graph" INTEGER);
CREATE TABLE "tracker:Namespace" (ID INTEGER NOT NULL PRIMARY KEY,
"tracker:prefix" TEXT COLLATE NOCASE, "tracker:prefix:graph"
INTEGER);
CREATE TABLE "tracker:Ontology" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "tracker:Volume" (ID INTEGER NOT NULL PRIMARY KEY,
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"tracker:isMounted" INTEGER, "tracker:isMounted:graph" INTEGER,
"tracker:unmountDate" INTEGER, "tracker:unmountDate:graph" INTEGER,
"tracker:unmountDate:localDate" INTEGER,
"tracker:unmountDate:localTime" INTEGER, "tracker:mountPoint" INTEGER,
"tracker:mountPoint:graph" INTEGER, "tracker:isRemovable" INTEGER,
"tracker:isRemovable:graph" INTEGER, "tracker:isOptical" INTEGER,
"tracker:isOptical:graph" INTEGER);
CREATE UNIQUE INDEX "mfo:FeedMessage_mfo:enclosureList_ID_ID" ON
"mfo:FeedMessage_mfo:enclosureList" (ID, "mfo:enclosureList");
CREATE UNIQUE INDEX "mlo:GeoBoundingBox_mlo:bbNorthWest_ID_ID" ON
"mlo:GeoBoundingBox_mlo:bbNorthWest" (ID, "mlo:bbNorthWest");
CREATE UNIQUE INDEX "mlo:GeoBoundingBox_mlo:bbSouthEast_ID_ID" ON
"mlo:GeoBoundingBox_mlo:bbSouthEast" (ID, "mlo:bbSouthEast");
CREATE INDEX "mlo:GeoLocation_mlo:asBoundingBox_ID" ON
"mlo:GeoLocation_mlo:asBoundingBox" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asBoundingBox_ID_ID" ON
"mlo:GeoLocation_mlo:asBoundingBox" ("mlo:asBoundingBox", ID);
CREATE INDEX "mlo:GeoLocation_mlo:asGeoPoint_ID" ON
"mlo:GeoLocation_mlo:asGeoPoint" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asGeoPoint_ID_ID" ON
"mlo:GeoLocation_mlo:asGeoPoint" ("mlo:asGeoPoint", ID);
CREATE INDEX "mlo:GeoLocation_mlo:asPostalAddress_ID" ON
"mlo:GeoLocation_mlo:asPostalAddress" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asPostalAddress_ID_ID" ON
"mlo:GeoLocation_mlo:asPostalAddress" ("mlo:asPostalAddress", ID);
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:address_ID_ID" ON
"mlo:GeoPoint_mlo:address" (ID, "mlo:address");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:altitude_ID_ID" ON
"mlo:GeoPoint_mlo:altitude" (ID, "mlo:altitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:city_ID_ID" ON
"mlo:GeoPoint_mlo:city" (ID, "mlo:city");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:country_ID_ID" ON
"mlo:GeoPoint_mlo:country" (ID, "mlo:country");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:latitude_ID_ID" ON
"mlo:GeoPoint_mlo:latitude" (ID, "mlo:latitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:longitude_ID_ID" ON
"mlo:GeoPoint_mlo:longitude" (ID, "mlo:longitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:state_ID_ID" ON
"mlo:GeoPoint_mlo:state" (ID, "mlo:state");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:timestamp_ID_ID" ON
"mlo:GeoPoint_mlo:timestamp" (ID, "mlo:timestamp");
CREATE UNIQUE INDEX "mlo:GeoSphere_mlo:radius_ID_ID" ON
"mlo:GeoSphere_mlo:radius" (ID, "mlo:radius");
CREATE UNIQUE INDEX "mlo:LandmarkCategory_mlo:isRemovable_ID_ID" ON
"mlo:LandmarkCategory_mlo:isRemovable" (ID, "mlo:isRemovable");
CREATE UNIQUE INDEX "mlo:Landmark_mlo:belongsToCategory_ID_ID" ON
"mlo:Landmark_mlo:belongsToCategory" (ID, "mlo:belongsToCategory");
CREATE UNIQUE INDEX "mlo:Landmark_mlo:poiLocation_ID_ID" ON
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"mlo:Landmark_mlo:poiLocation" (ID, "mlo:poiLocation");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxEastLimit_ID_ID"
ON "mlo:LocationBoundingBox_mlo:boxEastLimit" (ID,
"mlo:boxEastLimit");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxNorthLimit_ID_ID"
ON "mlo:LocationBoundingBox_mlo:boxNorthLimit" (ID,
"mlo:boxNorthLimit");
CREATE UNIQUE INDEX
"mlo:LocationBoundingBox_mlo:boxSouthWestCorner_ID_ID" ON
"mlo:LocationBoundingBox_mlo:boxSouthWestCorner" (ID,
"mlo:boxSouthWestCorner");
CREATE UNIQUE INDEX
"mlo:LocationBoundingBox_mlo:boxVerticalLimit_ID_ID" ON
"mlo:LocationBoundingBox_mlo:boxVerticalLimit" (ID,
"mlo:boxVerticalLimit");
CREATE UNIQUE INDEX "mlo:Route_mlo:endTime_ID_ID" ON
"mlo:Route_mlo:endTime" (ID, "mlo:endTime");
CREATE UNIQUE INDEX "mlo:Route_mlo:routeDetails_ID_ID" ON
"mlo:Route_mlo:routeDetails" (ID, "mlo:routeDetails");
CREATE UNIQUE INDEX "mlo:Route_mlo:startTime_ID_ID" ON
"mlo:Route_mlo:startTime" (ID, "mlo:startTime");
CREATE UNIQUE INDEX "mto:Transfer_mto:transferList_ID_ID" ON
"mto:Transfer_mto:transferList" (ID, "mto:transferList");
CREATE UNIQUE INDEX "mto:Transfer_mto:transferPrivacyLevel_ID_ID" ON
"mto:Transfer_mto:transferPrivacyLevel" (ID,
"mto:transferPrivacyLevel");
CREATE UNIQUE INDEX "mto:UploadTransfer_mto:transferCategory_ID_ID" ON
"mto:UploadTransfer_mto:transferCategory" (ID,
"mto:transferCategory");
CREATE UNIQUE INDEX "nao:Tag_tracker:isDefaultTag_ID_ID" ON
"nao:Tag_tracker:isDefaultTag" (ID, "tracker:isDefaultTag");
CREATE UNIQUE INDEX "nao:Tag_tracker:tagRelatedTo_ID_ID" ON
"nao:Tag_tracker:tagRelatedTo" (ID, "tracker:tagRelatedTo");
CREATE UNIQUE INDEX "ncal:Alarm_ncal:action_ID_ID" ON
"ncal:Alarm_ncal:action" (ID, "ncal:action");
CREATE UNIQUE INDEX "ncal:BydayRulePart_ncal:bydayModifier_ID_ID" ON
"ncal:BydayRulePart_ncal:bydayModifier" (ID, "ncal:bydayModifier");
CREATE UNIQUE INDEX "ncal:BydayRulePart_ncal:bydayWeekday_ID_ID" ON
"ncal:BydayRulePart_ncal:bydayWeekday" (ID, "ncal:bydayWeekday");
CREATE UNIQUE INDEX "ncal:Calendar_ncal:component_ID_ID" ON
"ncal:Calendar_ncal:component" (ID, "ncal:component");
CREATE UNIQUE INDEX "ncal:Freebusy_ncal:freebusy_ID_ID" ON
"ncal:Freebusy_ncal:freebusy" (ID, "ncal:freebusy");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byday_ID_ID" ON
"ncal:RecurrenceRule_ncal:byday" (ID, "ncal:byday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byhour_ID_ID" ON
"ncal:RecurrenceRule_ncal:byhour" (ID, "ncal:byhour");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byminute_ID_ID" ON
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"ncal:RecurrenceRule_ncal:byminute" (ID, "ncal:byminute");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonth_ID_ID" ON
"ncal:RecurrenceRule_ncal:bymonth" (ID, "ncal:bymonth");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonthday_ID_ID" ON
"ncal:RecurrenceRule_ncal:bymonthday" (ID, "ncal:bymonthday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysecond_ID_ID" ON
"ncal:RecurrenceRule_ncal:bysecond" (ID, "ncal:bysecond");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysetpos_ID_ID" ON
"ncal:RecurrenceRule_ncal:bysetpos" (ID, "ncal:bysetpos");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byweekno_ID_ID" ON
"ncal:RecurrenceRule_ncal:byweekno" (ID, "ncal:byweekno");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byyearday_ID_ID" ON
"ncal:RecurrenceRule_ncal:byyearday" (ID, "ncal:byyearday");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attach_ID_ID" ON
"ncal:UnionParentClass_ncal:attach" (ID, "ncal:attach");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attendee_ID_ID" ON
"ncal:UnionParentClass_ncal:attendee" (ID, "ncal:attendee");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:categories_ID_ID" ON
"ncal:UnionParentClass_ncal:categories" (ID, "ncal:categories");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exdate_ID_ID" ON
"ncal:UnionParentClass_ncal:exdate" (ID, "ncal:exdate");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exrule_ID_ID" ON
"ncal:UnionParentClass_ncal:exrule" (ID, "ncal:exrule");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:hasAlarm_ID_ID" ON
"ncal:UnionParentClass_ncal:hasAlarm" (ID, "ncal:hasAlarm");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:ncalRelation_ID_ID" ON
"ncal:UnionParentClass_ncal:ncalRelation" (ID, "ncal:ncalRelation");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:rdate_ID_ID" ON
"ncal:UnionParentClass_ncal:rdate" (ID, "ncal:rdate");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToChild_ID_ID"
ON "ncal:UnionParentClass_ncal:relatedToChild" (ID,
"ncal:relatedToChild");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToParent_ID_ID"
ON "ncal:UnionParentClass_ncal:relatedToParent" (ID,
"ncal:relatedToParent");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:resources_ID_ID" ON
"ncal:UnionParentClass_ncal:resources" (ID, "ncal:resources");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:rrule_ID_ID" ON
"ncal:UnionParentClass_ncal:rrule" (ID, "ncal:rrule");
CREATE UNIQUE INDEX "nco:Affiliation_nco:title_ID_ID" ON
"nco:Affiliation_nco:title" (ID, "nco:title");
CREATE UNIQUE INDEX "nco:ContactList_nco:containsContact_ID_ID" ON
"nco:ContactList_nco:containsContact" (ID, "nco:containsContact");
CREATE UNIQUE INDEX "nco:Contact_ncal:anniversary_ID_ID" ON
"nco:Contact_ncal:anniversary" (ID, "ncal:anniversary");
CREATE UNIQUE INDEX "nco:Contact_ncal:birthday_ID_ID" ON
"nco:Contact_ncal:birthday" (ID, "ncal:birthday");
CREATE UNIQUE INDEX "nco:Contact_nco:belongsToGroup_ID_ID" ON
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"nco:Contact_nco:belongsToGroup" (ID, "nco:belongsToGroup");
CREATE UNIQUE INDEX "nco:Contact_nco:note_ID_ID" ON
"nco:Contact_nco:note" (ID, "nco:note");
CREATE UNIQUE INDEX "nco:Contact_scal:anniversary_ID_ID" ON
"nco:Contact_scal:anniversary" (ID, "scal:anniversary");
CREATE UNIQUE INDEX "nco:Contact_scal:birthday_ID_ID" ON
"nco:Contact_scal:birthday" (ID, "scal:birthday");
CREATE UNIQUE INDEX "nco:IMAccount_nco:hasIMContact_ID_ID" ON
"nco:IMAccount_nco:hasIMContact" (ID, "nco:hasIMContact");
CREATE UNIQUE INDEX "nco:IMAddress_nco:imCapability_ID_ID" ON
"nco:IMAddress_nco:imCapability" (ID, "nco:imCapability");
CREATE UNIQUE INDEX "nco:PersonContact_nco:hasAffiliation_ID_ID" ON
"nco:PersonContact_nco:hasAffiliation" (ID, "nco:hasAffiliation");
CREATE INDEX "nco:PersonContact_nco:nameFamily" ON "nco:PersonContact"
("nco:nameFamily");
CREATE INDEX "nco:PhoneNumber_nco:phoneNumber" ON "nco:PhoneNumber"
("nco:phoneNumber");
CREATE UNIQUE INDEX "nco:Role_nco:blogUrl_ID_ID" ON
"nco:Role_nco:blogUrl" (ID, "nco:blogUrl");
CREATE UNIQUE INDEX "nco:Role_nco:foafUrl_ID_ID" ON
"nco:Role_nco:foafUrl" (ID, "nco:foafUrl");
CREATE UNIQUE INDEX "nco:Role_nco:hasContactMedium_ID_ID" ON
"nco:Role_nco:hasContactMedium" (ID, "nco:hasContactMedium");
CREATE INDEX "nco:Role_nco:hasEmailAddress_ID" ON
"nco:Role_nco:hasEmailAddress" (ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasEmailAddress_ID_ID" ON
"nco:Role_nco:hasEmailAddress" ("nco:hasEmailAddress", ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasIMAddress_ID_ID" ON
"nco:Role_nco:hasIMAddress" (ID, "nco:hasIMAddress");
CREATE UNIQUE INDEX "nco:Role_nco:hasPhoneNumber_ID_ID" ON
"nco:Role_nco:hasPhoneNumber" (ID, "nco:hasPhoneNumber");
CREATE INDEX "nco:Role_nco:hasPostalAddress_ID" ON
"nco:Role_nco:hasPostalAddress" (ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasPostalAddress_ID_ID" ON
"nco:Role_nco:hasPostalAddress" ("nco:hasPostalAddress", ID);
CREATE UNIQUE INDEX "nco:Role_nco:url_ID_ID" ON "nco:Role_nco:url"
(ID, "nco:url");
CREATE UNIQUE INDEX "nco:Role_nco:websiteUrl_ID_ID" ON
"nco:Role_nco:websiteUrl" (ID, "nco:websiteUrl");
CREATE UNIQUE INDEX
"nfo:BookmarkFolder_nfo:containsBookmarkFolder_ID_ID" ON
"nfo:BookmarkFolder_nfo:containsBookmarkFolder" (ID,
"nfo:containsBookmarkFolder");
CREATE UNIQUE INDEX "nfo:BookmarkFolder_nfo:containsBookmark_ID_ID" ON
"nfo:BookmarkFolder_nfo:containsBookmark" (ID,
"nfo:containsBookmark");
CREATE INDEX "nfo:FileDataObject_nfo:fileLastModified" ON
"nfo:FileDataObject" ("nfo:fileLastModified");
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CREATE UNIQUE INDEX "nfo:Image_nfo:depicts_ID_ID" ON
"nfo:Image_nfo:depicts" (ID, "nfo:depicts");
CREATE UNIQUE INDEX "nfo:Image_nfo:hasRegionOfInterest_ID_ID" ON
"nfo:Image_nfo:hasRegionOfInterest" (ID, "nfo:hasRegionOfInterest");
CREATE UNIQUE INDEX "nfo:MediaList_nfo:hasMediaFileListEntry_ID_ID" ON
"nfo:MediaList_nfo:hasMediaFileListEntry" (ID,
"nfo:hasMediaFileListEntry");
CREATE UNIQUE INDEX "nfo:MediaList_nfo:mediaListEntry_ID_ID" ON
"nfo:MediaList_nfo:mediaListEntry" (ID, "nfo:mediaListEntry");
CREATE UNIQUE INDEX "nfo:Media_mtp:hidden_ID_ID" ON
"nfo:Media_mtp:hidden" (ID, "mtp:hidden");
CREATE UNIQUE INDEX "nfo:Media_nmm:alternativeMedia_ID_ID" ON
"nfo:Media_nmm:alternativeMedia" (ID, "nmm:alternativeMedia");
CREATE INDEX "nfo:Visual_nie:contentCreated" ON "nfo:Visual"
("nie:contentCreated");
CREATE UNIQUE INDEX "nid3:ID3Audio_nid3:leadArtist_ID_ID" ON
"nid3:ID3Audio_nid3:leadArtist" (ID, "nid3:leadArtist");
CREATE UNIQUE INDEX "nie:DataObject_nie:dataSource_ID_ID" ON
"nie:DataObject_nie:dataSource" (ID, "nie:dataSource");
CREATE UNIQUE INDEX "nie:DataObject_nie:isPartOf_ID_ID" ON
"nie:DataObject_nie:isPartOf" (ID, "nie:isPartOf");
CREATE INDEX "nie:DataObject_nie:url" ON "nie:DataObject" ("nie:url");
CREATE INDEX "nie:InformationElement_mlo:location_ID" ON
"nie:InformationElement_mlo:location" (ID);
CREATE UNIQUE INDEX "nie:InformationElement_mlo:location_ID_ID" ON
"nie:InformationElement_mlo:location" ("mlo:location", ID);
CREATE UNIQUE INDEX "nie:InformationElement_nao:hasProperty_ID_ID" ON
"nie:InformationElement_nao:hasProperty" (ID, "nao:hasProperty");
CREATE UNIQUE INDEX "nie:InformationElement_nco:contributor_ID_ID" ON
"nie:InformationElement_nco:contributor" (ID, "nco:contributor");
CREATE UNIQUE INDEX "nie:InformationElement_nco:creator_ID_ID" ON
"nie:InformationElement_nco:creator" (ID, "nco:creator");
CREATE UNIQUE INDEX "nie:InformationElement_nie:hasLogicalPart_ID_ID"
ON "nie:InformationElement_nie:hasLogicalPart" (ID,
"nie:hasLogicalPart");
CREATE UNIQUE INDEX "nie:InformationElement_nie:hasPart_ID_ID" ON
"nie:InformationElement_nie:hasPart" (ID, "nie:hasPart");
CREATE UNIQUE INDEX
"nie:InformationElement_nie:informationElementDate_ID_ID" ON
"nie:InformationElement_nie:informationElementDate" (ID,
"nie:informationElementDate");
CREATE UNIQUE INDEX "nie:InformationElement_nie:isLogicalPartOf_ID_ID"
ON "nie:InformationElement_nie:isLogicalPartOf" (ID,
"nie:isLogicalPartOf");
CREATE UNIQUE INDEX "nie:InformationElement_nie:keyword_ID_ID" ON
"nie:InformationElement_nie:keyword" (ID, "nie:keyword");
CREATE UNIQUE INDEX "nie:InformationElement_nie:relatedTo_ID_ID" ON
"nie:InformationElement_nie:relatedTo" (ID, "nie:relatedTo");
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CREATE INDEX "nie:InformationElement_slo:location" ON
"nie:InformationElement" ("slo:location");
CREATE INDEX "nmm:Artist_nmm:artistName" ON "nmm:Artist" ("nmm:artistName");
CREATE INDEX "nmm:MusicAlbum_nie:title" ON "nmm:MusicAlbum" ("nie:title");
CREATE UNIQUE INDEX "nmm:MusicAlbum_nmm:albumArtist_ID_ID" ON
"nmm:MusicAlbum_nmm:albumArtist" (ID, "nmm:albumArtist");
CREATE INDEX "nmm:MusicPiece_nie:title" ON "nmm:MusicPiece" ("nie:title");
CREATE UNIQUE INDEX "nmm:MusicPiece_nmm:lyrics_ID_ID" ON
"nmm:MusicPiece_nmm:lyrics" (ID, "nmm:lyrics");
CREATE INDEX "nmm:MusicPiece_nmm:musicAlbum" ON "nmm:MusicPiece"
("nmm:musicAlbum");
CREATE INDEX "nmm:MusicPiece_nmm:performer" ON "nmm:MusicPiece"
("nmm:performer");
CREATE UNIQUE INDEX "nmm:RadioStation_nmm:carrier_ID_ID" ON
"nmm:RadioStation_nmm:carrier" (ID, "nmm:carrier");
CREATE UNIQUE INDEX "nmm:Video_mtp:scantype_ID_ID" ON
"nmm:Video_mtp:scantype" (ID, "mtp:scantype");
CREATE UNIQUE INDEX "nmm:Video_nmm:director_ID_ID" ON
"nmm:Video_nmm:director" (ID, "nmm:director");
CREATE UNIQUE INDEX "nmm:Video_nmm:leadActor_ID_ID" ON
"nmm:Video_nmm:leadActor" (ID, "nmm:leadActor");
CREATE UNIQUE INDEX "nmm:Video_nmm:subtitle_ID_ID" ON
"nmm:Video_nmm:subtitle" (ID, "nmm:subtitle");
CREATE INDEX "nmo:Call_nmo:sentDate" ON "nmo:Call" ("nmo:sentDate");
CREATE INDEX "nmo:CommunicationChannel_nmo:hasParticipant_ID" ON
"nmo:CommunicationChannel_nmo:hasParticipant" (ID);
CREATE UNIQUE INDEX
"nmo:CommunicationChannel_nmo:hasParticipant_ID_ID" ON
"nmo:CommunicationChannel_nmo:hasParticipant" ("nmo:hasParticipant",
ID);
CREATE INDEX "nmo:CommunicationChannel_nmo:lastMessageDate" ON
"nmo:CommunicationChannel" ("nmo:lastMessageDate");
CREATE UNIQUE INDEX "nmo:Email_nmo:contentMimeType_ID_ID" ON
"nmo:Email_nmo:contentMimeType" (ID, "nmo:contentMimeType");
CREATE UNIQUE INDEX "nmo:Message_nmo:bcc_ID_ID" ON
"nmo:Message_nmo:bcc" (ID, "nmo:bcc");
CREATE UNIQUE INDEX "nmo:Message_nmo:cc_ID_ID" ON "nmo:Message_nmo:cc"
(ID, "nmo:cc");
CREATE INDEX "nmo:Message_nmo:communicationChannel" ON "nmo:Message"
("nmo:communicationChannel", "nmo:receivedDate");
CREATE INDEX "nmo:Message_nmo:conversation" ON "nmo:Message"
("nmo:conversation");
CREATE INDEX "nmo:Message_nmo:from" ON "nmo:Message" ("nmo:from");
CREATE UNIQUE INDEX "nmo:Message_nmo:hasAttachment_ID_ID" ON
"nmo:Message_nmo:hasAttachment" (ID, "nmo:hasAttachment");
CREATE UNIQUE INDEX "nmo:Message_nmo:inReplyTo_ID_ID" ON
"nmo:Message_nmo:inReplyTo" (ID, "nmo:inReplyTo");
CREATE UNIQUE INDEX "nmo:Message_nmo:messageHeader_ID_ID" ON
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"nmo:Message_nmo:messageHeader" (ID, "nmo:messageHeader");
CREATE UNIQUE INDEX "nmo:Message_nmo:recipient_ID_ID" ON
"nmo:Message_nmo:recipient" (ID, "nmo:recipient");
CREATE UNIQUE INDEX "nmo:Message_nmo:references_ID_ID" ON
"nmo:Message_nmo:references" (ID, "nmo:references");
CREATE INDEX "nmo:Message_nmo:sender" ON "nmo:Message" ("nmo:sender");
CREATE INDEX "nmo:Message_nmo:sentDate" ON "nmo:Message" ("nmo:sentDate");
CREATE INDEX "nmo:Message_nmo:to_ID" ON "nmo:Message_nmo:to" (ID);
CREATE UNIQUE INDEX "nmo:Message_nmo:to_ID_ID" ON "nmo:Message_nmo:to"
("nmo:to", ID);
CREATE UNIQUE INDEX "nmo:MimePart_nmo:mimeHeader_ID_ID" ON
"nmo:MimePart_nmo:mimeHeader" (ID, "nmo:mimeHeader");
CREATE UNIQUE INDEX "nmo:Multipart_nmo:partBoundary_ID_ID" ON
"nmo:Multipart_nmo:partBoundary" (ID, "nmo:partBoundary");
CREATE UNIQUE INDEX
"nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder_ID_ID" ON
"nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder" (ID,
"nmo:containsPhoneMessageFolder");
CREATE UNIQUE INDEX
"nmo:PhoneMessageFolder_nmo:containsPhoneMessage_ID_ID" ON
"nmo:PhoneMessageFolder_nmo:containsPhoneMessage" (ID,
"nmo:containsPhoneMessage");
CREATE UNIQUE INDEX "nmo:PhoneMessage_nmo:toVCard_ID_ID" ON
"nmo:PhoneMessage_nmo:toVCard" (ID, "nmo:toVCard");
CREATE UNIQUE INDEX "rdf:Property_rdfs:subPropertyOf_ID_ID" ON
"rdf:Property_rdfs:subPropertyOf" (ID, "rdfs:subPropertyOf");
CREATE UNIQUE INDEX "rdfs:Class_rdfs:subClassOf_ID_ID" ON
"rdfs:Class_rdfs:subClassOf" (ID, "rdfs:subClassOf");
CREATE UNIQUE INDEX "rdfs:Class_tracker:domainIndex_ID_ID" ON
"rdfs:Class_tracker:domainIndex" (ID, "tracker:domainIndex");
CREATE UNIQUE INDEX "rdfs:Resource_dc:contributor_ID_ID" ON
"rdfs:Resource_dc:contributor" (ID, "dc:contributor");
CREATE UNIQUE INDEX "rdfs:Resource_dc:date_ID_ID" ON
"rdfs:Resource_dc:date" (ID, "dc:date");
CREATE UNIQUE INDEX "rdfs:Resource_dc:relation_ID_ID" ON
"rdfs:Resource_dc:relation" (ID, "dc:relation");
CREATE UNIQUE INDEX "rdfs:Resource_dc:source_ID_ID" ON
"rdfs:Resource_dc:source" (ID, "dc:source");
CREATE UNIQUE INDEX "rdfs:Resource_nao:deprecated_ID_ID" ON
"rdfs:Resource_nao:deprecated" (ID, "nao:deprecated");
CREATE INDEX "rdfs:Resource_nao:hasTag_ID" ON "rdfs:Resource_nao:hasTag" (ID);
CREATE UNIQUE INDEX "rdfs:Resource_nao:hasTag_ID_ID" ON
"rdfs:Resource_nao:hasTag" ("nao:hasTag", ID);
CREATE UNIQUE INDEX "rdfs:Resource_nao:isRelated_ID_ID" ON
"rdfs:Resource_nao:isRelated" (ID, "nao:isRelated");
CREATE UNIQUE INDEX "rdfs:Resource_rdf:type_ID_ID" ON
"rdfs:Resource_rdf:type" (ID, "rdf:type");
CREATE INDEX "rdfs:Resource_tracker:added" ON "rdfs:Resource" ("tracker:added");
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CREATE UNIQUE INDEX "scal:Attendee_scal:delegated-from_ID_ID" ON
"scal:Attendee_scal:delegated-from" (ID, "scal:delegated-from");
CREATE UNIQUE INDEX "scal:Attendee_scal:delegated-to_ID_ID" ON
"scal:Attendee_scal:delegated-to" (ID, "scal:delegated-to");
CREATE UNIQUE INDEX "scal:Attendee_scal:member_ID_ID" ON
"scal:Attendee_scal:member" (ID, "scal:member");
CREATE UNIQUE INDEX "scal:Attendee_scal:sent-by_ID_ID" ON
"scal:Attendee_scal:sent-by" (ID, "scal:sent-by");
CREATE UNIQUE INDEX "scal:CalendarAlarm_scal:alarmAttendee_ID_ID" ON
"scal:CalendarAlarm_scal:alarmAttendee" (ID, "scal:alarmAttendee");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:access_ID_ID" ON
"scal:CalendarItem_scal:access" (ID, "scal:access");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:attachment_ID_ID" ON
"scal:CalendarItem_scal:attachment" (ID, "scal:attachment");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:attendee_ID_ID" ON
"scal:CalendarItem_scal:attendee" (ID, "scal:attendee");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:belongsToCalendar_ID_ID"
ON "scal:CalendarItem_scal:belongsToCalendar" (ID,
"scal:belongsToCalendar");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:contact_ID_ID" ON
"scal:CalendarItem_scal:contact" (ID, "scal:contact");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:rrule_ID_ID" ON
"scal:CalendarItem_scal:rrule" (ID, "scal:rrule");
CREATE INDEX "slo:GeoLocation_slo:postalAddress" ON "slo:GeoLocation"
("slo:postalAddress");
CREATE UNIQUE INDEX "slo:Landmark_slo:belongsToCategory_ID_ID" ON
"slo:Landmark_slo:belongsToCategory" (ID, "slo:belongsToCategory");
CREATE UNIQUE INDEX "slo:Landmark_slo:hasContact_ID_ID" ON
"slo:Landmark_slo:hasContact" (ID, "slo:hasContact");
CREATE UNIQUE INDEX "slo:Route_slo:routeDetails_ID_ID" ON
"slo:Route_slo:routeDetails" (ID, "slo:routeDetails");

EXPLAIN SELECT "1_u", (SELECT "nco:fullname" FROM "nco:Contact" WHERE
ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameFamily" FROM
"nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT
"nco:nameGiven" FROM "nco:PersonContact" WHERE ID = "1_u")
COLLATE NOCASE, (SELECT "nco:nameAdditional" FROM
"nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT
"nco:nameHonorificPrefix" FROM "nco:PersonContact" WHERE ID =
"1_u") COLLATE NOCASE, (SELECT "nco:nameHonorificSuffix" FROM
"nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT
"nco:nickname" FROM "nco:Contact" WHERE ID = "1_u") COLLATE
NOCASE, strftime("%s",(SELECT "nco:birthDate" FROM
"nco:Contact" WHERE ID = "1_u")), (SELECT "nie:url" FROM
"nie:DataObject" WHERE ID = (SELECT "nco:photo" FROM
"nco:Contact" WHERE ID = "1_u")) COLLATE NOCASE, (SELECT
GROUP_CONCAT("2_u"||? COLLATE NOCASE||COALESCE((SELECT
"nco:imProtocol" FROM "nco:IMAddress" WHERE ID = "3_u") COLLATE
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NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT
"nco:imID" FROM "nco:IMAddress" WHERE ID = "3_u") COLLATE
NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT
"nco:imNickname" FROM "nco:IMAddress" WHERE ID = "3_u") COLLATE
NOCASE, ? COLLATE NOCASE), '\n') FROM (SELECT
"nco:PersonContact_nco:hasAffiliation2"."nco:hasAffiliation" AS
"2_u", "nco:Role_nco:hasIMAddress3"."nco:hasIMAddress" AS
"3_u" FROM "nco:PersonContact_nco:hasAffiliation" AS
"nco:PersonContact_nco:hasAffiliation2",
"nco:Role_nco:hasIMAddress" AS "nco:Role_nco:hasIMAddress3" WHERE
"1_u" = "nco:PersonContact_nco:hasAffiliation2"."ID" AND
"nco:PersonContact_nco:hasAffiliation2"."nco:hasAffiliation" =
"nco:Role_nco:hasIMAddress3"."ID")), (SELECT
GROUP_CONCAT("2_u"||? COLLATE NOCASE||(SELECT "nco:phoneNumber"
FROM "nco:PhoneNumber" WHERE ID = "4_u") COLLATE NOCASE, '\n')
FROM (SELECT "nco:PersonContact_nco:hasAffiliation4"."nco:hasAffiliation"
AS "2_u", "nco:Role_nco:hasPhoneNumber5"."nco:hasPhoneNumber" AS
"4_u" FROM "nco:PersonContact_nco:hasAffiliation" AS
"nco:PersonContact_nco:hasAffiliation4",
"nco:Role_nco:hasPhoneNumber" AS "nco:Role_nco:hasPhoneNumber5"
WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation4"."ID" AND
"nco:PersonContact_nco:hasAffiliation4"."nco:hasAffiliation" =
"nco:Role_nco:hasPhoneNumber5"."ID")), (SELECT
GROUP_CONCAT("2_u"||? COLLATE NOCASE||(SELECT "nco:emailAddress"
FROM "nco:EmailAddress" WHERE ID = "5_u") COLLATE NOCASE, ',')
FROM (SELECT "nco:PersonContact_nco:hasAffiliation6"."nco:hasAffiliation"
AS "2_u", "nco:Role_nco:hasEmailAddress7"."nco:hasEmailAddress"
AS "5_u" FROM "nco:PersonContact_nco:hasAffiliation" AS
"nco:PersonContact_nco:hasAffiliation6",
"nco:Role_nco:hasEmailAddress" AS "nco:Role_nco:hasEmailAddress7"
WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation6"."ID" AND
"nco:PersonContact_nco:hasAffiliation6"."nco:hasAffiliation" =
"nco:Role_nco:hasEmailAddress7"."ID")), (SELECT
GROUP_CONCAT("2_u"||? COLLATE NOCASE||COALESCE((SELECT
GROUP_CONCAT((SELECT Uri FROM Resource WHERE ID =
"nco:blogUrl"),',') FROM "nco:Role_nco:blogUrl" WHERE ID =
"2_u"), ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT
GROUP_CONCAT((SELECT Uri FROM Resource WHERE ID =
"nco:websiteUrl"),',') FROM "nco:Role_nco:websiteUrl" WHERE ID =
"2_u"), ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT
GROUP_CONCAT((SELECT Uri FROM Resource WHERE ID = "nco:url"),',')
FROM "nco:Role_nco:url" WHERE ID = "2_u"), ? COLLATE NOCASE),
'\n') FROM (SELECT
"nco:PersonContact_nco:hasAffiliation8"."nco:hasAffiliation" AS
"2_u" FROM "nco:PersonContact_nco:hasAffiliation" AS
"nco:PersonContact_nco:hasAffiliation8" WHERE "1_u" =
"nco:PersonContact_nco:hasAffiliation8"."ID")), (SELECT
GROUP_CONCAT("6_u", ',') FROM (SELECT
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"rdfs:Resource_nao:hasTag9"."nao:hasTag" AS "6_u" FROM
"rdfs:Resource_nao:hasTag" AS "rdfs:Resource_nao:hasTag9" WHERE
"1_u" = "rdfs:Resource_nao:hasTag9"."ID")), (SELECT Uri FROM
Resource WHERE ID = "1_u"), (SELECT GROUP_CONCAT("2_u"||? COLLATE
NOCASE||COALESCE((SELECT "nco:role" FROM "nco:Affiliation" WHERE
ID = "2_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE
NOCASE||COALESCE((SELECT "nco:department" FROM "nco:Affiliation"
WHERE ID = "2_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE
NOCASE||COALESCE((SELECT GROUP_CONCAT("nco:title",',') FROM
"nco:Affiliation_nco:title" WHERE ID = "2_u"), ? COLLATE NOCASE),
'\n') FROM (SELECT
"nco:PersonContact_nco:hasAffiliation10"."nco:hasAffiliation" AS
"2_u" FROM "nco:PersonContact_nco:hasAffiliation" AS
"nco:PersonContact_nco:hasAffiliation10" WHERE "1_u" =
"nco:PersonContact_nco:hasAffiliation10"."ID")), (SELECT
GROUP_CONCAT("nco:note",',') FROM "nco:Contact_nco:note" WHERE ID
= "1_u"), (SELECT "nco:gender" FROM "nco:PersonContact" WHERE ID
= "1_u"), (SELECT GROUP_CONCAT("2_u"||? COLLATE
NOCASE||COALESCE((SELECT "nco:pobox" FROM "nco:PostalAddress"
WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE
NOCASE||COALESCE((SELECT "nco:district" FROM "nco:PostalAddress"
WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE
NOCASE||COALESCE((SELECT "nco:county" FROM "nco:PostalAddress"
WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE
NOCASE||COALESCE((SELECT "nco:locality" FROM "nco:PostalAddress"
WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE
NOCASE||COALESCE((SELECT "nco:postalcode" FROM
"nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE
NOCASE)||? COLLATE NOCASE||COALESCE((SELECT "nco:streetAddress"
FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ?
COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT Uri FROM
Resource WHERE ID = (SELECT "nco:addressLocation" FROM
"nco:PostalAddress" WHERE ID = "7_u")), ? COLLATE NOCASE)||?
COLLATE NOCASE||COALESCE((SELECT "nco:extendedAddress" FROM
"nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE
NOCASE)||? COLLATE NOCASE||COALESCE((SELECT "nco:country" FROM
"nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE
NOCASE)||? COLLATE NOCASE||COALESCE((SELECT "nco:region" FROM
"nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE
NOCASE), '\n') FROM (SELECT
"nco:PersonContact_nco:hasAffiliation11"."nco:hasAffiliation" AS
"2_u", "nco:Role_nco:hasPostalAddress12"."nco:hasPostalAddress"
AS "7_u" FROM "nco:PersonContact_nco:hasAffiliation" AS
"nco:PersonContact_nco:hasAffiliation11",
"nco:Role_nco:hasPostalAddress" AS
"nco:Role_nco:hasPostalAddress12" WHERE "1_u" =
"nco:PersonContact_nco:hasAffiliation11"."ID" AND
"nco:PersonContact_nco:hasAffiliation11"."nco:hasAffiliation" =
```

```
"nco:Role_nco:hasPostalAddress12"."ID")), (SELECT
GROUP_CONCAT("10_u" COLLATE NOCASE, ',') FROM (SELECT
"nie:InformationElement_nao:hasProperty13"."nao:hasProperty" AS
"8_u", "nao:Property14"."nao:propertyName" AS "9_u",
"nao:Property14"."nao:propertyValue" AS "10_u" FROM
"nie:InformationElement_nao:hasProperty" AS
"nie:InformationElement_nao:hasProperty13", "nao:Property" AS
"nao:Property14" WHERE "1_u" =
"nie:InformationElement_nao:hasProperty13"."ID" AND
"nie:InformationElement_nao:hasProperty13"."nao:hasProperty" =
"nao:Property14"."ID" AND "9_u" IS NOT NULL AND "10_u" IS NOT
NULL AND ("9_u" COLLATE NOCASE = ? COLLATE NOCASE))) FROM (SELECT
"nco:PersonContact1"."ID" AS "1_u" FROM "nco:PersonContact" AS
"nco:PersonContact1") ORDER BY "1_u";
 }
} {/.* Goto .*/}


finish_test

Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-src-3071700.zip-cosi-expand-archive-cheW8kUH/sqlite-src-3071700/test/fuzz-oss1.test
No license file was found, but licenses were detected in source scan.

)print dup(       )cvs print

Found in path(s):
* {cvx $error/errorname get(Error
No license file was found, but licenses were detected in source scan.

application code is free to use these routines as well, if desired.

Found in path(s):
* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-doc-3071700.zip-cosi-expand-archive-r9EckcaZ/sqlite-doc-3071700/34to35.html
No license file was found, but licenses were detected in source scan.

/*
** Return a pointer to the "temporary page" buffer held internally
** by the pager.  This is a buffer that is big enough to hold the
** entire content of a database page.  This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs.  But other modules are free to use it too, as long as
** no rollbacks are happening.
*/

Found in path(s):
```

* /opt/cola/permits/1146568937_1616563472.04/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-lltKQC5N/sqlite-src-3071700.zip-cosi-expand-archive-cheW8kUH/sqlite-src-3071700/src/pager.c

1.437 aws-java-sdk-route53recoverycontrolconfig 1.12.199

1.437.1 Available under license :

No license file was found, but licenses were detected in source scan.

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*/

Found in path(s):
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/transform/GatingRuleUpdateJsonUnmarshaller.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/transform/UpdateRoutingControlResultJsonUnmarshaller.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/transform/DescribeSafetyRuleRequestProtocolMarshaller.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/DeleteSafetyRuleResult.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/UntagResourceRequest.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/transform/ClusterJsonUnmarshaller.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/DescribeClusterRequest.java

* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/transform/AssertionRuleJsonUnmarshaller.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/transform/DescribeControlPanelRequestMarshaller.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/ListRoutingControlsResult.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/transform/GatingRuleMarshaller.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/transform/ResourceNotFoundExceptionUnmarshaller.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/InternalServerException.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/NewAssertionRule.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/transform/RoutingControlMarshaller.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/transform/ListControlPanelsRequestMarshaller.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/DeleteSafetyRuleRequest.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/Cluster.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/transform/DescribeSafetyRuleRequestMarshaller.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/waiters/ClusterDeleted.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/transform/GatingRuleUpdateMarshaller.java
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* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/ResourceNotFoundException.java

* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/transform/AccessDeniedExceptionUnmarshaller.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/transform/DescribeRoutingControlRequestProtocolMarshaller.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/waiters/ControlPanelCreated.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/transform/ControlPanelMarshaller.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/RoutingControl.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/RuleType.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/DescribeControlPanelRequest.java
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* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/AbstractAWSRoute53RecoveryControlConfigAsync.java
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* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/transform/UpdateControlPanelRequestProtocolMarshaller.java
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* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/transform/DeleteControlPanelRequestProtocolMa

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* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/transform/ListRoutingControlsRequestMarshaller.java
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* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/DescribeControlPanelResult.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/CreateRoutingControlRequest.java
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* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/transform/UpdateSafetyRuleRequestMarshaller.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/transform/UpdateControlPanelResultJsonUnmarshaller.java
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* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/waiters/ClusterCreated.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-

jar/com/amazonaws/services/route53recoverycontrolconfig/model/transform/UntagResourceResultJsonUnmarshaller.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/transform/ConflictExceptionUnmarshaller.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/waiters/DescribeRoutingControlFunction.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/transform/DeleteControlPanelRequestMarshaller.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/transform/ListTagsForResourceRequestMarshaller.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/DeleteClusterResult.java
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* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/GatingRuleUpdate.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/ValidationException.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/CreateSafetyRuleResult.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/UpdateSafetyRuleResult.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/transform/ClusterEndpointJsonUnmarshaller.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/UpdateControlPanelRequest.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/transform/NewAssertionRuleMarshaller.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/NewGatingRule.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/transform/AssertionRuleMarshaller.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/DeleteRoutingControlResult.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/transform/ListControlPanelsRequestProtocolMarshaller.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/GatingRule.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-

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jar/com/amazonaws/services/route53recoverycontrolconfig/waiters/AWSRoute53RecoveryControlConfigWaiters.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-
jar/com/amazonaws/services/route53recoverycontrolconfig/model/transform/ListRoutingControlsResultJsonUnmarshaller.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-
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* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/DescribeRoutingControlRequest.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/Status.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/CreateClusterRequest.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-
jar/com/amazonaws/services/route53recoverycontrolconfig/model/transform/CreateControlPanelResultJsonUnmarshaller.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-
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* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-

sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/Rule.java
* /opt/cola/permits/1463015739_1667606992.3968346/0/aws-java-sdk-route53recoverycontrolconfig-1-12-199-sources-jar/com/amazonaws/services/route53recoverycontrolconfig/model/DescribeClusterResult.java

1.438 jackson-annotations 2.13.2

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analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
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analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt
See http://members.unine.ch/jacques.savoy/clef/index.html.

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and
Ljiljana Dolamic. These files reside in:
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
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in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.
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Special Recognition

One of the key reasons we got delayed on the CentOS-6 release was lack of
suitable build resources, especially when we had to repeatedly build large
chunks of code. Norwood S came forward and worked with me to
setup a large build machine, then tune the build process and help improve
the overall build, test and validate process we were using. This build
machine he donated to the project was about 5 times more capable than the
entire buildsystem we had. And he did this out of his own pocket, from
his own time, and has since upgraded the machine as well. It's now a 128GB,
48 core machine, with 4 SSD's and 4 sata disks : but the key metric is
that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver
CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix,
AZ, USA for his continued support for the project.

Contributors:
 The Red Hat developers, without whom CentOS would look very different

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*/
/**
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its {@link ChannelPipeline}.
*
* <h3>Sub-types</h3>
```

```
* <p>
* {@link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its subtypes:
* <ul>
* <li>{@link ChannelInboundHandler} to handle inbound I/O events, and</li>
* <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
* </ul>
* </p>
* <p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
* <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
* <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>
* </p>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>
*
* <h3>The context object</h3>
* <p>
* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext}
* object.  A {@link ChannelHandler} is supposed to interact with the
* {@link ChannelPipeline} it belongs to via a context object.  Using the
* context object, the {@link ChannelHandler} can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using {@link AttributeKey}s) which is specific to the handler.
*
* <h3>State management</h3>
*
* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*
*     <b>private boolean loggedIn;</b>
*
*     {@code @Override}
*     public void channelRead0({@link ChannelHandlerContext} ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             <b>loggedIn = true;</b>
*         } else (message instanceof GetDataMessage) {
```

```
*            if (<b>loggedIn</b>) {
*                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*            } else {
*                fail();
*            }
*        }
*    }
*    ...
* }
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where a unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*    {@code @Override}
*    public void initChannel({@link Channel} channel) {
*        channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*    }
* }
*
* </pre>
*
* <h4>Using {@link AttributeKey}s</h4>
*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use {@link AttributeKey}s which is provided by
* {@link ChannelHandlerContext}:
* <pre>
* public interface Message {
*    // your methods here
* }
*
* {@code @Sharable}
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*    private final {@link AttributeKey}&lt;{@link Boolean}&gt; auth =
*            {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*    {@code @Override}
*    public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
*        {@link Attribute}&lt;{@link Boolean}&gt; attr = ctx.attr(auth);
*        if (message instanceof LoginMessage) {
*            authenticate((LoginMessage) o);
*            <b>attr.set(true)</b>;
```

```
*         } else (message instanceof GetDataMessage) {
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
*     ...
* }
* </pre>
* Now that the state of the handler is attached to the {@link ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }
* </pre>
*
*
* <h4>The {@code @Sharable} annotation</h4>
* <p>
* In the example above which used an {@link AttributeKey},
* you might have noticed the {@code @Sharable} annotation.
* <p>
* If a {@link ChannelHandler} is annotated with the {@code @Sharable}
* annotation, it means you can create an instance of the handler just once and
* add it to one or more {@link ChannelPipeline}s multiple times without
* a race condition.
* <p>
* If this annotation is not specified, you have to create a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like
* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.
*
* <h3>Additional resources worth reading</h3>
* <p>
* Please refer to the {@link ChannelHandler}, and
* {@link ChannelPipeline} to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a  pipeline,  and how to handle
```

* the operation in your application.
*/

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* /opt/cola/permits/1221016625_1635406658.52/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/ChannelInboundInvoker.java
* /opt/cola/permits/1221016625_1635406658.52/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/WriteBufferWaterMark.java
* /opt/cola/permits/1221016625_1635406658.52/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/SelectStrategy.java
* /opt/cola/permits/1221016625_1635406658.52/0/netty-transport-4-1-69-final-sources-jar/io/netty/bootstrap/BootstrapConfig.java
* /opt/cola/permits/1221016625_1635406658.52/0/netty-transport-4-1-69-final-sources-jar/io/netty/bootstrap/ServerBootstrapConfig.java
* /opt/cola/permits/1221016625_1635406658.52/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/DefaultSelectStrategyFactory.java
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* /opt/cola/permits/1221016625_1635406658.52/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/SelectStrategyFactory.java
* /opt/cola/permits/1221016625_1635406658.52/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/DefaultSelectStrategy.java
* /opt/cola/permits/1221016625_1635406658.52/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/group/VoidChannelGroupFuture.java
* /opt/cola/permits/1221016625_1635406658.52/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/socket/DuplexChannel.java
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* /opt/cola/permits/1221016625_1635406658.52/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/local/LocalChannelRegistry.java
* /opt/cola/permits/1221016625_1635406658.52/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/local/LocalChannel.java
* /opt/cola/permits/1221016625_1635406658.52/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/nio/AbstractNioChannel.java
* /opt/cola/permits/1221016625_1635406658.52/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannel.java
* /opt/cola/permits/1221016625_1635406658.52/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/ChannelPromiseNotifier.java
* /opt/cola/permits/1221016625_1635406658.52/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/ChannelFutureListener.java

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* /opt/cola/permits/1221016625_1635406658.52/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/DefaultChannelPromise.java
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* /opt/cola/permits/1221016625_1635406658.52/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
* /opt/cola/permits/1221016625_1635406658.52/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/pool/ChannelHealthChecker.java
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* /opt/cola/permits/1221016625_1635406658.52/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java
* /opt/cola/permits/1221016625_1635406658.52/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/pool/ChannelPool.java
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* /opt/cola/permits/1221016625_1635406658.52/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/embedded/EmbeddedChannelId.java
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* /opt/cola/permits/1221016625_1635406658.52/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/AbstractEventLoop.java
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* /opt/cola/permits/1221016625_1635406658.52/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
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jar/io/netty/channel/PendingBytesTracker.java
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* /opt/cola/permits/1221016625_1635406658.52/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
* /opt/cola/permits/1221016625_1635406658.52/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java

1.451 aws-java-sdk-costexplorer 1.12.199

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1.459 aws-java-sdk-schemas 1.12.199

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* /opt/cola/permits/1463016282_1667607098.3908439/0/aws-java-sdk-schemas-1-12-199-sources-jar/com/amazonaws/services/schemas/model/transform/DescribeCodeBindingResultJsonUnmarshaller.java

1.460 hk2-api 2.6.1

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1.461 keyutils 1.5.8 3.el7

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c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on

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1.465 hppc 0.7.1

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1.469 protobuf-java 3.19.4

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Found in path(s):
* /opt/cola/permits/1444784973_1666041526.196175/0/protobuf-java-3-19-4-3-jar/google/protobuf/wrappers.proto
* /opt/cola/permits/1444784973_1666041526.196175/0/protobuf-java-3-19-4-3-jar/google/protobuf/descriptor.proto
* /opt/cola/permits/1444784973_1666041526.196175/0/protobuf-java-3-19-4-3-
jar/google/protobuf/timestamp.proto
* /opt/cola/permits/1444784973_1666041526.196175/0/protobuf-java-3-19-4-3-jar/google/protobuf/duration.proto
* /opt/cola/permits/1444784973_1666041526.196175/0/protobuf-java-3-19-4-3-
jar/google/protobuf/field_mask.proto
* /opt/cola/permits/1444784973_1666041526.196175/0/protobuf-java-3-19-4-3-

jar/google/protobuf/source_context.proto
* /opt/cola/permits/1444784973_1666041526.196175/0/protobuf-java-3-19-4-3-jar/google/protobuf/type.proto
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Manifest-Version: 1.0
Automatic-Module-Name: com.google.protobuf
Bnd-LastModified: 1643389670477
Build-Jdk: 1.8.0_181-google-v7
Built-By: acozzette
Bundle-Description: Core Protocol Buffers library. Protocol Buffers are
a way of encoding structured data in an efficient yet extensible for
mat.
Bundle-DocURL: https://developers.google.com/protocol-buffers/
Bundle-License: https://opensource.org/licenses/BSD-3-Clause
Bundle-ManifestVersion: 2
Bundle-Name: Protocol Buffers [Core]
Bundle-SymbolicName: com.google.protobuf
Bundle-Version: 3.19.4
Created-By: Apache Maven Bundle Plugin
Export-Package: com.google.protobuf;version="3.19.4"
Import-Package: sun.misc;resolution:=optional,com.google.protobuf;versio
n="[3.19,4)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.0.0.201509101326

Found in path(s):
* /opt/cola/permits/1444784973_1666041526.196175/0/protobuf-java-3-19-4-3-jar/META-INF/MANIFEST.MF

1.470 aws-java-sdk-cloudwatchmetrics 1.12.199

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1.471 kotlin-script-runtime 1.3.50

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Found in path(s):
* /opt/cola/permits/1137596246_1614104399.02/0/kotlin-script-runtime-1-3-50-sources-3-jar/kotlin/script/templates/standard/templates.kt

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* /opt/cola/permits/1137596246_1614104399.02/0/kotlin-script-runtime-1-3-50-sources-3-jar/kotlin/script/experimental/dependencies/resolvers.kt
* /opt/cola/permits/1137596246_1614104399.02/0/kotlin-script-runtime-1-3-50-sources-3-jar/kotlin/script/experimental/dependencies/dependencies.kt
* /opt/cola/permits/1137596246_1614104399.02/0/kotlin-script-runtime-1-3-50-sources-3-jar/kotlin/script/experimental/dependencies/AsyncDependenciesResolver.kt
* /opt/cola/permits/1137596246_1614104399.02/0/kotlin-script-runtime-1-3-50-sources-3-

jar/kotlin/script/dependencies/dependencies_deprecated.kt
* /opt/cola/permits/1137596246_1614104399.02/0/kotlin-script-runtime-1-3-50-sources-3-jar/kotlin/script/templates/annotations.kt
* /opt/cola/permits/1137596246_1614104399.02/0/kotlin-script-runtime-1-3-50-sources-3-jar/kotlin/script/extensions/samWithReceiver.kt
* /opt/cola/permits/1137596246_1614104399.02/0/kotlin-script-runtime-1-3-50-sources-3-jar/kotlin/script/dependencies/resolvers_deprecated.kt

1.472 libassuan 2.1.0 3.el7

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1.488 basesystem 10.0-7.el7.centos

1.488.1 Available under license :

No license file was found, but licenses were detected in source scan.

Summary: The skeleton package which defines a simple CentOS Linux system
Name: basesystem
Version: 10.0
Release: 7%{?dist}
License: Public Domain
Group: System Environment/Base
Requires(pre): setup filesystem
BuildRoot: %(mktemp -ud %{_tmppath}/%{name}-%{version}-%{release}-XXXXXX)
BuildArch: noarch

%description
Basesystem defines the components of a basic CentOS Linux
system (for example, the package installation order to use during
bootstrapping). Basesystem should be in every installation of a system,
and it should never be removed.

%prep

%build

%install

%clean

%files
%defattr(-,root,root,-)

%changelog
* Fri Jun 27 2014 Johnny Hughes <johnny@centos.org> - 10.0-7.el7.centos
- Roll in CentOS Branding

* Fri Dec 27 2013 Daniel Mach <dmach@redhat.com> - 10.0-7
- Mass rebuild 2013-12-27

* Tue Mar 06 2012 Ondrej Vasik <ovasik@redhat.com> 10.0-6
- remove again reference to Fedora after RHEL-7 import(#800464)

* Thu Jun 23 2011 Ondrej Vasik <ovasik@redhat.com> 10.0-5
- fix FTBFS typo (#715640), add disttag

* Fri May 21 2010 Ondrej Vasik <ovasik@redhat.com> - 10.0-4
- remove reference to Fedora, add dist tag
Related: rhbz#566527

* Mon Apr 26 2010 Dennis Gregorovic <dgregor@redhat.com> - 10.0-3.2
- Rebuilt for RHEL 6
Related: rhbz#566527

* Mon Apr 26 2010 Dennis Gregorovic <dgregor@redhat.com> - 10.0-3.1
- Rebuilt for RHEL 6
Related: rhbz#566527

* Fri Jul 24 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-3
- Rebuilt for https://fedoraproject.org/wiki/Fedora_12_Mass_Rebuild

* Mon Feb 23 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-2
- Rebuilt for https://fedoraproject.org/wiki/Fedora_11_Mass_Rebuild

* Mon Oct 20 2008 Phil Knirsch <pknirsch@redhat.com> 10.0-1
- Bump version and rebuild for Fedora 10 (#451289)

* Fri Mar 02 2007 Phil Knirsch <pknirsch@redhat.com> - 8.1-1
- Cleanup per package review (#225608)

* Wed Jul 12 2006 Jesse Keating <jkeating@redhat.com> - 8.0-5.1.1
- rebuild

* Fri Dec 09 2005 Jesse Keating <jkeating@redhat.com>
- rebuilt

* Wed Sep 22 2004 Bill Nottingham <notting@redhat.com>

- rebuilt

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

* Wed Aug 21 2002 Bill Nottingham <notting@redhat.com>
- bump rev

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Thu May 23 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild

* Tue Jun 6 2000 Bill Nottingham <notting@redhat.com>
- rebuild. Wheee.

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 4)

* Tue Mar 16 1999 Cristian Gafton <gafton@redhat.com>
- don't require rpm (breaks dependency chain)

* Tue Mar 16 1999 Erik Troan <ewt@redhat.com>
- require rpm

* Wed Dec 30 1998 Cristian Gafton <gafton@redhat.com>
- build for 6.0

* Tue Aug 11 1998 Jeff Johnson <jbj@redhat.com>
- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr

* Tue Sep 23 1997 Erik Troan <ewt@redhat.com>
- made a noarch package

Found in path(s):

* /opt/cola/permits/1151233448_1617817524.04/0/basesystem-10.0-7.el7.centos.src.rpm-cosi-expand-archive-tqrtl4Z0/basesystem.spec

1.489 json-utils 2.17.85

1.489.1 Available under license :

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A Python binding for the gpgme library, used to drive the gpg command
line program.

More information about gpgme can be found here:
http://www.gnupg.org/(en)/related_software/gpgme/index.html

This binding stays fairly close to the C API with the following
exceptions:

* Memory management is not exposed to the user

* Functions like gpgme_get_foo()/gpgme_set_foo() are converted to
attribute access on gpgme.Context objects.

* Functions that take gpgme_data_t arguments take arbitrary Python
file-like objects. The read(), write(), seek() and tell() methods
may be used on the object.

* Non-zero gpgme_error_t return values are converted to gpgme.error
exceptions.

* Only the synchronous versions of functions have been wrapped.
However, the Python global interpreter lock is dropped, so should
play nicely in multi-threaded Python programs.

* Function pairs like gpgme_op_import()/gpgme_op_import_result() are
combined into single method calls.

* The Python version of gpgme_op_keylist() returns an iterator over
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Name: pygpgme
Version: 0.3

Summary: A Python module for working with OpenPGP messages
Home-page: https://launchpad.net/pygpgme
Author: James Henstridge
Author-email: james@jamesh.id.au
License: LGPL
Description: PyGPGME is a Python module that lets you sign, verify, encrypt and
    decrypt messages using the OpenPGP format.

    It is built on top of the GNU Privacy Guard and the GPGME library.

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1.496 jetty-http 9.4.18.v20190429

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
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org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
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 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

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org.eclipse.jetty.toolchain:jetty-schemas

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*/
/**
   * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
   * version.
   *
   * @param owner
   *            the owner's class name.
   * @param access
   *            the method's access flags (see {@link Opcodes}).
   * @param name
   *            the method's name.
   * @param desc
   *            the method's descriptor (see {@link Type Type}).
   * @param mv
   *            the method visitor to which this adapter delegates calls. May
   *            be <tt>null</tt>.
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
   */
```

Found in path(s):
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/AnalyzerAdapter.java
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/**
   * Creates a new {@link GeneratorAdapter}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
   * version.
   *
   * @param mv
   *            the method visitor to which this adapter delegates calls.
   * @param access
   *            the method's access flags (see {@link Opcodes}).
   * @param name
   *            the method's name.
   * @param desc
   *            the method's descriptor (see {@link Type Type}).
```

```
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
   */
```

Found in path(s):
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/GeneratorAdapter.java
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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/TypePath.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/TypeReference.java
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/**
   * Creates a new JSRInliner. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
   * version.
   *
   * @param mv
   *          the <code>MethodVisitor</code> to send the resulting inlined
   *          method code to (use <code>null</code> for none).
   * @param access
   *          the method's access flags (see {@link Opcodes}). This
   *          parameter also indicates if the method is synthetic and/or
   *          deprecated.
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type}).
   * @param signature
   *          the method's signature. May be <tt>null</tt>.
   * @param exceptions
   *          the internal names of the method's exception classes (see
   *          {@link Type#getInternalName() getInternalName}). May be
   *          <tt>null</tt>.
```

```
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
   */
```

Found in path(s):
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/JSRInlinerAdapter.java
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*/
/**
   * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
   * not use this constructor</i>. Instead, they must use the
   * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
   * version.
   *
   * @param typeRef
   *             a reference to the annotated type. See {@link TypeReference}.
   * @param typePath
   *             the path to the annotated type argument, wildcard bound, array
```

```
     *          element type, or static inner type within 'typeRef'. May be
     *          <tt>null</tt> if the annotation targets 'typeRef' as a whole.
     * @param start
     *          the fist instructions corresponding to the continuous ranges
     *          that make the scope of this local variable (inclusive).
     * @param end
     *          the last instructions corresponding to the continuous ranges
     *          that make the scope of this local variable (exclusive). This
     *          array must have the same size as the 'start' array.
     * @param index
     *          the local variable's index in each range. This array must have
     *          the same size as the 'start' array.
     * @param desc
     *          the class descriptor of the annotation class.
     */
```

Found in path(s):
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/package.html
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/package.html
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/signature/package.html
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/tree/analysis/package.html
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jar/org/objectweb/asm/commons/package.html
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/**
   * Constructs a new {@link Textifier}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the {@link #Textifier(int)}
   * version.
   *
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
   */
```

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/**
   * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
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   * version.
   *
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
   */
```

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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/xml/SAXAdapter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/xml/SAXCodeAdapter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/xml/ASMContentHandler.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/xml/SAXFieldAdapter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java

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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/analysis/Value.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/Label.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/Item.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/StaticInitMerger.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/AnnotationVisitor.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/analysis/Frame.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/MethodVisitor.java

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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/VarInsnNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/AnnotationNode.java
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version
2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Modifications: Added cronjob, configuration file, and man pages.

Copyright information:

CrackLib was originally licensed with a variant of the Artistic
license. In the interests of wider acceptance and more modern
licensing, it was switched with the original author's blessing to GPL
v2.

This approval was carried out in email discussions in 2005, and has
been reconfirmed as of 2007-10-01 with the following email from Alec
Muffett. Cracklib's license was changed from the GPL to the LGPL after
consensus of all previous developers in October 2008, effective with

release 2.8.15 released on 2009-11-19. See the email discussion below
for both license changes.

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

> Re: [Cracklib-devel] cracklib license
> From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.=20
>
> -- Nathan
> =20
> ---
> Nathan Neulinger EMail: nneul@um...
> University of Missouri - Rolla Phone: (573) 341-6679
> UMR Information Technology Fax: (573) 341-4216
>
> > -----Original Message-----
> > From: cracklib-devel-bounces@li...
> > [mailto:cracklib-devel-bounces@li...] On Behalf Of
> > Mike Frysinger
> > Sent: Monday, October 01, 2007 8:15 PM
> > To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license
>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
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=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
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Cheers,

Nalin

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From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
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CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500

Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
 by rutherford.zen.co.uk with esmtp (Exim 4.50)
 id 1IcOcX-0004Qt-6L
 for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

>
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
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Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
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for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
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X-Originating-Rutherford-IP: [82.68.43.14]
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X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
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Happy now? :-)

-a

1.501 jackson-jaxrs 2.10.5

1.501.1 Available under license :

This copy of Jackson JSON processor databind module is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0
Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

Licensing

Jackson core and extension components may be licensed under different licenses.
To find the details that apply to this artifact see the accompanying LICENSE file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

1.502 metrics-httpasyncclient 4.0.5

1.502.1 Available under license :

Apache-2.0

1.503 logback-throttling-appender 1.1.3

1.503.1 Available under license :

No license file was found, but licenses were detected in source scan.

<name>Apache License 2.0</name>
<url>http://www.apache.org/licenses/LICENSE-2.0.html</url>

Found in path(s):
* /opt/cola/permits/1463015986_1667606738.5660698/0/logback-throttling-appender-1-1-3-sources-jar/META-INF/maven/io.dropwizard.logback/logback-throttling-appender/pom.xml

1.504 aws-java-sdk-ssm 1.12.199

1.504.1 Available under license :

Apache-2.0

1.505 pygpgme 0.3 9.el7

1.505.1 Available under license :

From RPM File Metadata:LGPLv2+

1.506 commons-fileupload 1.4

1.506.1 Available under license :

Apache Commons FileUpload
Copyright 2002-2018 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
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1.510 curl 7.29.0-59.el7_9.1

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License Mixing with apps, libcurl and Third Party Libraries

==========

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that GPL[1]-licensed code is not allowed to be linked with code licensed under the Original BSD license (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an exception[2]. This particular problem was addressed when the Modified BSD license was created, which does not have the announcement clause that collides with GPL.

libcurl http://curl.haxx.se/docs/copyright.html

> Uses an MIT (or Modified BSD)-style license that is as liberal as possible. Some of the source files that deal with KRB4 have Original BSD-style announce-clause licenses. You may not distribute binaries with krb4-enabled libcurl that also link with GPL-licensed code!

OpenSSL http://www.openssl.org/source/license.html

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GnuTLS http://www.gnutls.org/

> (May be used for SSL/TLS support) Uses the LGPL[3] license. If this is

a problem for you, consider using OpenSSL instead. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

yassl http://www.yassl.com/

(May be used for SSL/TLS support) Uses the GPL[1] license. If this is a problem for you, consider using OpenSSL or GnuTLS instead.

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axTLS http://axtls.sourceforge.net/

(May be used for SSL/TLS support) Uses a Modified BSD-style license.

c-ares http://daniel.haxx.se/projects/c-ares/license.html

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

MIT Kerberos http://web.mit.edu/kerberos/www/dist/

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Heimdal http://www.pdc.kth.se/heimdal/

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fbopenssl

(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

libidn http://josefsson.org/libidn/

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OpenLDAP http://www.openldap.org/software/release/license.html

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-

jar/rx/internal/operators/OnSubscribeReduce.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/SuppressAnimalSniffer.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeTakeLastOne.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/DeferredScalarSubscriber.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/ExceptionsUtils.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeConcatMap.java
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleOperatorCast.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observables/ConnectableObservable.java
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subscriptions/Subscriptions.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/exceptions/Exceptions.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subscriptions/SerialSubscription.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-

jar/rx/subscriptions/CompositeSubscription.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorSkipLastTimed.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorMerge.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/exceptions/CompositeException.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/exceptions/OnErrorThrowable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/schedulers/NewThreadScheduler.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/UnicastSubject.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/exceptions/OnErrorFailedException.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/schedulers/SleepingAction.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action0.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/TestSubject.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/AsyncSubject.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/BlockingOperatorNext.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/ActionN.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorOnErrorResumeNextViaFunction.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OnSubscribeToObservableFuture.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/SerializedSubject.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/CompletableOnSubscribeConcatArray.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/FuncN.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorScan.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/schedulers/TrampolineScheduler.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorTake.java
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/producers/ProducerObserverArbiter.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/producers/QueuedProducer.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/BackpressureUtils.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/producers/ProducerArbiter.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/producers/SingleProducer.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/producers/SingleDelayedProducer.java
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*/

Found in path(s):
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/atomic/LinkedQueueNode.java
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeCombineLatest.java
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/singles/BlockingSingle.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observables/AsyncOnSubscribe.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/BlockingUtils.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/SingleSubscriber.java
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This package contains code that relies on sun.misc.Unsafe. Before using it you MUST assert UnsafeAccess.isUnsafeAvailable() == true

Much of the code in this package comes from or is inspired by the JCTools project:
https://github.com/JCTools/JCTools

JCTools has now published artifacts (https://github.com/JCTools/JCTools/issues/17) so RxJava could add JCTools as a "shadow" dependency (https://github.com/ReactiveX/RxJava/issues/1735).
RxJava has a "zero dependency" policy for the core library, so if we do add it as a dependency, it won't be an externally visible dependency that results in a separate jar.

The license for the JCTools code is https://github.com/JCTools/JCTools/blob/master/LICENSE

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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/CompletableSubscriber.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/SingleEmitter.java
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleTakeUntilObservable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observables/package-info.java
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeThrow.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/package-info.java
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/CompletableFlatMapSingleToCompletable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/annotations/package-info.java
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/BackpressureOverflow.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/RxJavaCompletableExecutionHook.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleDoOnUnsubscribe.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/subscriptions/Unsubscribed.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeLift.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleLiftObservableOperator.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/RxJavaSingleExecutionHook.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleOnErrorReturn.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeOnAssembly.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/package-info.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleFromObservable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeOnAssemblyCompletable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleFromEmitter.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeCreate.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/ActionNotificationObserver.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeOnAssemblySingle.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/subscriptions/CancellableSubscription.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleObserveOn.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/schedulers/GenericScheduledExecutorServiceFactory.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/AssertableSubscriber.java

* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/package-info.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/RxJavaSingleExecutionHookDefault.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/observers/AssertableSubscriberObservable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleFromCallable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/ObserverSubscriber.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/package-info.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/exceptions/package-info.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/exceptions/AssemblyStackTraceException.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleFromFuture.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleTakeUntilSingle.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Cancellable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/EmptyObservableHolder.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleToObservable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/schedulers/SchedulerWhen.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/NeverObservableHolder.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/AsyncCompletableSubscriber.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/schedulers/SchedulePeriodicHelper.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeFlattenIterable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/RxJavaHooks.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/singles/package-info.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subscriptions/package-info.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleDelay.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleTimeout.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleDoOnSubscribe.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/ActionSubscriber.java
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* This plugin class provides 2 ways to customize {@link Scheduler} functionality
* 1.  You may redefine entire schedulers, if you so choose.  To do so, override
* the 3 methods that return Scheduler (io(), computation(), newThread()).
* 2.  You may wrap/decorate an {@link Action0}, before it is handed off to a Scheduler.  The system-
* supplied Schedulers (Schedulers.ioScheduler, Schedulers.computationScheduler,
* Scheduler.newThreadScheduler) all use this hook, so it's a convenient way to
* modify Scheduler functionality without redefining Schedulers wholesale.
*
* Also, when redefining Schedulers, you are free to use/not use the onSchedule decoration hook.
* <p>
* See {@link RxJavaPlugins} or the RxJava GitHub Wiki for information on configuring plugins:
```

* <a
href="https://github.com/ReactiveX/RxJava/wiki/Plugins">https://github.com/ReactiveX/RxJava/wiki/Plugins.
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jar/rx/internal/operators/OperatorBufferWithTime.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorMulticast.java
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jar/rx/internal/operators/OperatorMapPair.java
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1.531 netty-reactive-streams 2.0.5

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1.532 antlr-runtime 4.1

1.533 python-kitchen 1.1.1 5.el7

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* /opt/cola/permits/1137595702_1614104283.49/0/kotlin-scripting-common-1-3-50-sources-3-jar/kotlin/script/experimental/host/BasicScriptingHost.kt

1.536 hdrhistogram 2.1.9

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* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/DoubleRecorder.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/ShortCountsHistogram.java
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* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/ZigZagEncoding.java

* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/HistogramLogReader.java
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* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/AbstractHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/ConcurrentHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/Version.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/Recorder.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/DoubleRecordedValuesIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/LogarithmicIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/HistogramLogProcessor.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/SingleWriterDoubleRecorder.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/AbstractHistogramIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/DoubleAllValuesIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/IntCountsHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/SynchronizedDoubleHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/PercentileIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/SingleWriterRecorder.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/ConcurrentDoubleHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/SynchronizedHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/DoubleLogarithmicIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-

jar/org/HdrHistogram/AbstractHistogramLogReader.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/LinearIterator.java
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```
/*
* package-info.java
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*/
```

Found in path(s):
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/package-info.java
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package org.HdrHistogram;

final class Version {
  public static final String version="$VERSION$";
  public static final String build_time="$BUILD_TIME$";
}
```

Found in path(s):
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/Version.java.template

1.537 glue 2.16.92

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1.540 aws-java-sdk-organizations 1.12.199

1.540.1 Available under license :

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Found in path(s):
* /opt/cola/permits/1463018217_1667607081.037361/0/aws-java-sdk-organizations-1-12-199-sources-jar/com/amazonaws/services/organizations/model/PaymentInstrumentRequiredException.java
* /opt/cola/permits/1463018217_1667607081.037361/0/aws-java-sdk-organizations-1-12-199-sources-jar/com/amazonaws/services/organizations/model/InvitationsDisabledDuringOrganizationModeChangeException.java
* /opt/cola/permits/1463018217_1667607081.037361/0/aws-java-sdk-organizations-1-12-199-sources-jar/com/amazonaws/services/organizations/model/OrganizationFromDifferentSellerOfRecordException.java
* /opt/cola/permits/1463018217_1667607081.037361/0/aws-java-sdk-organizations-1-12-199-sources-jar/com/amazonaws/services/organizations/model/FullControlAlreadyEnabledException.java
* /opt/cola/permits/1463018217_1667607081.037361/0/aws-java-sdk-organizations-1-12-199-sources-jar/com/amazonaws/services/organizations/model/AccountCannotLeaveOrganizationException.java

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```
/*
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* and limitations under the License.
*/
/**
   * <p>
   * Attaches a policy to a root, an organizational unit (OU), or an individual account. How the policy affects
   * accounts depends on the type of policy. Refer to the <i>Organizations User Guide</i> for information about each
   * policy type:
   * </p>
   * <ul>
   * <li>
   * <p>
   * <a href="https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_policies_ai-opt-out.html">
   * AISERVICES_OPT_OUT_POLICY</a>
   * </p>
   * </li>
   * <li>
   * <p>
   * <a href="https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_policies_backup.html">
   * BACKUP_POLICY</a>
   * </p>
   * </li>
   * <li>
   * <p>
   * <a href="https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_policies_scp.html">
   * SERVICE_CONTROL_POLICY</a>
   * </p>
   * </li>
   * <li>
   * <p>
   * <a href="https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_policies_tag-policies.html">
   * TAG_POLICY</a>
```

```
     * </p>
     * </li>
     * </ul>
     * <p>
     * This operation can be called only from the organization's management account.
     * </p>
     *
     * @param attachPolicyRequest
     * @return Result of the AttachPolicy operation returned by the service.
     * @throws AccessDeniedException
     *         You don't have permissions to perform the requested operation. The user or role that is making the
     *         request must have at least one IAM permissions policy attached that grants the required permissions. For
     *         more information, see <a href="https://docs.aws.amazon.com/IAM/latest/UserGuide/access.html">Access
     *         Management</a> in the <i>IAM User Guide.</i>
     * @throws AWSOrganizationsNotInUseException
     *         Your account isn't a member of an organization. To make this request, you must use the credentials of an
     *         account that belongs to an organization.
     * @throws ConcurrentModificationException
     *         The target of the operation is currently being modified by a different request. Try again later.
     * @throws ConstraintViolationException
     *         Performing this operation violates a minimum or maximum value limit. For example, attempting to remove
     *         the last service control policy (SCP) from an OU or root, inviting or creating too many accounts to the
     *         organization, or attaching too many policies to an account, OU, or root. This exception includes a reason
     *         that contains additional information about the violated limit:</p> <note>
     *         <p>
     *         Some of the reasons in the following list might not be applicable to this specific API or operation.
     *         </p>
     *         </note>
     *         <ul>
     *         <li>
     *         <p>
     *         ACCOUNT_CANNOT_LEAVE_ORGANIZATION: You attempted to remove the management account from the organization.
     *         You can't remove the management account. Instead, after you remove all member accounts, delete the
     *         organization itself.
     *         </p>
     *         </li>
     *         <li>
     *         <p>
     *         ACCOUNT_CANNOT_LEAVE_WITHOUT_PHONE_VERIFICATION: You attempted to remove an account from the organization
     *         that doesn't yet have enough information to exist as a standalone account. This account requires you to
     *         first complete phone verification. Follow the steps at <a href=
     *         "https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_accounts_remove.html#orgs_manage_accounts_remove-from-master"
     *         >Removing a member account from your organization</a> in the <i>Organizations User Guide.</i>
     *         </p>
```

```
     *        </li>
     *        <li>
     *        <p>
     *        ACCOUNT_CREATION_RATE_LIMIT_EXCEEDED: You attempted to exceed the number of accounts
that you can create
     *        in one day.
     *        </p>
     *        </li>
     *        <li>
     *        <p>
     *        ACCOUNT_NUMBER_LIMIT_EXCEEDED: You attempted to exceed the limit on the number of
accounts in an
     *        organization. If you need more accounts, contact <a
     *        href="https://docs.aws.amazon.com/support/home#/">Amazon Web Services Support</a> to request an
increase
     *        in your limit.
     *        </p>
     *        <p>
     *        Or the number of invitations that you tried to send would cause you to exceed the limit of accounts in
     *        your organization. Send fewer invitations or contact Amazon Web Services Support to request an increase
     *        in the number of accounts.
     *        </p>
     *        <note>
     *        <p>
     *        Deleted and closed accounts still count toward your limit.
     *        </p>
     *        </note> <important>
     *        <p>
     *        If you get this exception when running a command immediately after creating the organization, wait one
     *        hour and try again. After an hour, if the command continues to fail with this error, contact <a
     *        href="https://docs.aws.amazon.com/support/home#/">Amazon Web Services Support</a>.
     *        </p>
     *        </important></li>
     *        <li>
     *        <p>
     *        CANNOT_REGISTER_MASTER_AS_DELEGATED_ADMINISTRATOR: You attempted to register
the management account of
     *        the organization as a delegated administrator for an Amazon Web Services service integrated with
     *        Organizations. You can designate only a member account as a delegated administrator.
     *        </p>
     *        </li>
     *        <li>
     *        <p>
     *        CANNOT_REMOVE_DELEGATED_ADMINISTRATOR_FROM_ORG: You attempted to remove an
account that is registered as
     *        a delegated administrator for a service integrated with your organization. To complete this operation,
     *        you must first deregister this account as a delegated administrator.
     *        </p>
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     *         </li>
     *         <li>
     *         <p>
     *         CREATE_ORGANIZATION_IN_BILLING_MODE_UNSUPPORTED_REGION: To create an
organization in the specified
     *         region, you must enable all features mode.
     *         </p>
     *         </li>
     *         <li>
     *         <p>
     *         DELEGATED_ADMINISTRATOR_EXISTS_FOR_THIS_SERVICE: You attempted to register an
Amazon Web Services account
     *         as a delegated administrator for an Amazon Web Services service that already has a delegated
     *         administrator. To complete this operation, you must first deregister any existing delegated
     *         administrators for this service.
     *         </p>
     *         </li>
     *         <li>
     *         <p>
     *         EMAIL_VERIFICATION_CODE_EXPIRED: The email verification code is only valid for a limited
period of time.
     *         You must resubmit the request and generate a new verfication code.
     *         </p>
     *         </li>
     *         <li>
     *         <p>
     *         HANDSHAKE_RATE_LIMIT_EXCEEDED: You attempted to exceed the number of handshakes that
you can send in one
     *         day.
     *         </p>
     *         </li>
     *         <li>
     *         <p>
     *         MASTER_ACCOUNT_ADDRESS_DOES_NOT_MATCH_MARKETPLACE: To create an account in
this organization, you first
     *         must migrate the organization's management account to the marketplace that corresponds to the
management
     *         account's address. For example, accounts with India addresses must be associated with the AISPL
     *         marketplace. All accounts in an organization must be associated with the same marketplace.
     *         </p>
     *         </li>
     *         <li>
     *         <p>
     *         MASTER_ACCOUNT_MISSING_BUSINESS_LICENSE: Applies only to the Amazon Web Services
/&amp;gt; Regions in China.
     *         To create an organization, the master must have a valid business license. For more information, contact
     *         customer support.
     *         </p>
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     *        </li>
     *        <li>
     *        <p>
     *        MASTER_ACCOUNT_MISSING_CONTACT_INFO: To complete this operation, you must first provide a valid contact
     *        address and phone number for the management account. Then try the operation again.
     *        </p>
     *        </li>
     *        <li>
     *        <p>
     *        MASTER_ACCOUNT_NOT_GOVCLOUD_ENABLED: To complete this operation, the management account must have an
     *        associated account in the Amazon Web Services GovCloud (US-West) Region. For more information, see <a
     *        href
     *        ="https://docs.aws.amazon.com/govcloud-us/latest/UserGuide/govcloud-organizations.html">Organizations</a>
     *        in the <i>Amazon Web Services GovCloud User Guide.</i>
     *        </p>
     *        </li>
     *        <li>
     *        <p>
     *        MASTER_ACCOUNT_PAYMENT_INSTRUMENT_REQUIRED: To create an organization with this management account, you
     *        first must associate a valid payment instrument, such as a credit card, with the account. Follow the
     *        steps at <a href=
     *        "https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_accounts_remove.html#leave-without-all-info"
     *        >To leave an organization when all required account information has not yet been provided</a> in the
     *        <i>Organizations User Guide.</i>
     *        </p>
     *        </li>
     *        <li>
     *        <p>
     *        MAX_DELEGATED_ADMINISTRATORS_FOR_SERVICE_LIMIT_EXCEEDED: You attempted to register more delegated
     *        administrators than allowed for the service principal.
     *        </p>
     *        </li>
     *        <li>
     *        <p>
     *        MAX_POLICY_TYPE_ATTACHMENT_LIMIT_EXCEEDED: You attempted to exceed the number of policies of a certain
     *        type that can be attached to an entity at one time.
     *        </p>
     *        </li>
     *        <li>
     *        <p>
```

```
     *         MAX_TAG_LIMIT_EXCEEDED: You have exceeded the number of tags allowed on this resource.
     *         </p>
     *         </li>
     *         <li>
     *         <p>
     *         MEMBER_ACCOUNT_PAYMENT_INSTRUMENT_REQUIRED: To complete this operation with this
member account, you
     *         first must associate a valid payment instrument, such as a credit card, with the account. Follow the
     *         steps at <a href=
     *         "https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_accounts_remove.html#leave-
without-all-info"
     *         >To leave an organization when all required account information has not yet been provided</a> in the
     *         <i>Organizations User Guide.</i>
     *         </p>
     *         </li>
     *         <li>
     *         <p>
     *         MIN_POLICY_TYPE_ATTACHMENT_LIMIT_EXCEEDED: You attempted to detach a policy from an
entity that would
     *         cause the entity to have fewer than the minimum number of policies of a certain type required.
     *         </p>
     *         </li>
     *         <li>
     *         <p>
     *         ORGANIZATION_NOT_IN_ALL_FEATURES_MODE: You attempted to perform an operation that
requires the
     *         organization to be configured to support all features. An organization that supports only consolidated
     *         billing features can't perform this operation.
     *         </p>
     *         </li>
     *         <li>
     *         <p>
     *         OU_DEPTH_LIMIT_EXCEEDED: You attempted to create an OU tree that is too many levels deep.
     *         </p>
     *         </li>
     *         <li>
     *         <p>
     *         OU_NUMBER_LIMIT_EXCEEDED: You attempted to exceed the number of OUs that you can have in
an organization.
     *         </p>
     *         </li>
     *         <li>
     *         <p>
     *         POLICY_CONTENT_LIMIT_EXCEEDED: You attempted to create a policy that is larger than the
maximum size.
     *         </p>
     *         </li>
     *         <li>
```

```
     *        <p>
     *        POLICY_NUMBER_LIMIT_EXCEEDED: You attempted to exceed the number of policies that you can
have in an
     *        organization.
     *        </p>
     *        </li>
     *        <li>
     *        <p>
     *        SERVICE_ACCESS_NOT_ENABLED: You attempted to register a delegated administrator before you
enabled
     *        service access. Call the <code>EnableAWSServiceAccess</code> API first.
     *        </p>
     *        </li>
     *        <li>
     *        <p>
     *        TAG_POLICY_VIOLATION: You attempted to create or update a resource with tags that are not
compliant with
     *        the tag policy requirements for this account.
     *        </p>
     *        </li>
     *        <li>
     *        <p>
     *        WAIT_PERIOD_ACTIVE: After you create an Amazon Web Services account, there is a waiting period
before you
     *        can remove it from the organization. If you get an error that indicates that a wait period is required,
     *        try again in a few days.
     *        </p>
     *        </li>
     * @throws DuplicatePolicyAttachmentException
     *        The selected policy is already attached to the specified target.
     * @throws InvalidInputException
     *        The requested operation failed because you provided invalid values for one or more of the request
     *        parameters. This exception includes a reason that contains additional information about the violated
     *        limit:</p> <note>
     *        <p>
     *        Some of the reasons in the following list might not be applicable to this specific API or operation.
     *        </p>
     *        </note>
     *        <ul>
     *        <li>
     *        <p>
     *        DUPLICATE_TAG_KEY: Tag keys must be unique among the tags attached to the same entity.
     *        </p>
     *        </li>
     *        <li>
     *        <p>
     *        IMMUTABLE_POLICY: You specified a policy that is managed by Amazon Web Services and can't be
modified.
```

```
     *         </p>
     *         </li>
     *         <li>
     *         <p>
     *         INPUT_REQUIRED: You must include a value for all required parameters.
     *         </p>
     *         </li>
     *         <li>
     *         <p>
     *         INVALID_EMAIL_ADDRESS_TARGET: You specified an invalid email address for the invited account
owner.
     *         </p>
     *         </li>
     *         <li>
     *         <p>
     *         INVALID_ENUM: You specified an invalid value.
     *         </p>
     *         </li>
     *         <li>
     *         <p>
     *         INVALID_ENUM_POLICY_TYPE: You specified an invalid policy type string.
     *         </p>
     *         </li>
     *         <li>
     *         <p>
     *         INVALID_FULL_NAME_TARGET: You specified a full name that contains invalid characters.
     *         </p>
     *         </li>
     *         <li>
     *         <p>
     *         INVALID_LIST_MEMBER: You provided a list to a parameter that contains at least one invalid value.
     *         </p>
     *         </li>
     *         <li>
     *         <p>
     *         INVALID_PAGINATION_TOKEN: Get the value for the <code>NextToken</code> parameter from the
response to a
     *         previous call of the operation.
     *         </p>
     *         </li>
     *         <li>
     *         <p>
     *         INVALID_PARTY_TYPE_TARGET: You specified the wrong type of entity (account, organization, or
email) as a
     *         party.
     *         </p>
     *         </li>
     *         <li>
```

```
     *         <p>
     *         INVALID_PATTERN: You provided a value that doesn't match the required pattern.
     *         </p>
     *         </li>
     *         <li>
     *         <p>
     *         INVALID_PATTERN_TARGET_ID: You specified a policy target ID that doesn't match the required
pattern.
     *         </p>
     *         </li>
     *         <li>
     *         <p>
     *         INVALID_ROLE_NAME: You provided a role name that isn't valid. A role name can't begin with the
reserved
     *         prefix <code>AWSServiceRoleFor</code>.
     *         </p>
     *         </li>
     *         <li>
     *         <p>
     *         INVALID_SYNTAX_ORGANIZATION_ARN: You specified an invalid Amazon Resource Name (ARN)
for the
     *         organization.
     *         </p>
     *         </li>
     *         <li>
     *         <p>
     *         INVALID_SYNTAX_POLICY_ID: You specified an invalid policy ID.
     *         </p>
     *         </li>
     *         <li>
     *         <p>
     *         INVALID_SYSTEM_TAGS_PARAMETER: You specified a tag key that is a system tag. You can’t add,
edit, or
     *         delete system tag keys because they're reserved for Amazon Web Services use. System tags don’t count
     *         against your tags per resource limit.
     *         </p>
     *         </li>
     *         <li>
     *         <p>
     *         MAX_FILTER_LIMIT_EXCEEDED: You can specify only one filter parameter for the operation.
     *         </p>
     *         </li>
     *         <li>
     *         <p>
     *         MAX_LENGTH_EXCEEDED: You provided a string parameter that is longer than allowed.
     *         </p>
     *         </li>
     *         <li>
```

```
     *        <p>
     *        MAX_VALUE_EXCEEDED: You provided a numeric parameter that has a larger value than allowed.
     *        </p>
     *        </li>
     *        <li>
     *        <p>
     *        MIN_LENGTH_EXCEEDED: You provided a string parameter that is shorter than allowed.
     *        </p>
     *        </li>
     *        <li>
     *        <p>
     *        MIN_VALUE_EXCEEDED: You provided a numeric parameter that has a smaller value than allowed.
     *        </p>
     *        </li>
     *        <li>
     *        <p>
     *        MOVING_ACCOUNT_BETWEEN_DIFFERENT_ROOTS: You can move an account only between
entities in the same root.
     *        </p>
     *        </li>
     *        <li>
     *        <p>
     *        TARGET_NOT_SUPPORTED: You can't perform the specified operation on that target entity.
     *        </p>
     *        </li>
     *        <li>
     *        <p>
     *        UNRECOGNIZED_SERVICE_PRINCIPAL: You specified a service principal that isn't recognized.
     *        </p>
     *        </li>
     * @throws PolicyNotFoundException
     *        We can't find a policy with the <code>PolicyId</code> that you specified.
     * @throws PolicyTypeNotEnabledException
     *        The specified policy type isn't currently enabled in this root. You can't attach policies of the
     *        specified type to entities in a root until you enable that type in the root. For more information, see <a
     *        href
     *        ="https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_org_support-all-
features.html"
     *        >Enabling All Features in Your Organization</a> in the <i>Organizations User Guide.</i>
     * @throws ServiceException
     *        Organizations can't complete your request because of an internal service error. Try again later.
     * @throws TargetNotFoundException
     *        We can't find a root, OU, account, or policy with the <code>TargetId</code> that you specified.
     * @throws TooManyRequestsException
     *        You have sent too many requests in too short a period of time. The quota helps protect against
     *        denial-of-service attacks. Try again later.</p>
     *        <p>
     *        For information about quotas that affect Organizations, see <a
```

```
     *        href="https://docs.aws.amazon.com/organizations/latest/userguide/orgs_reference_limits.html">Quotas for
     *        Organizations</a>in the <i>Organizations User Guide.</i>
     * @throws UnsupportedAPIEndpointException
     *        This action isn't available in the current Amazon Web Services Region.
     * @throws PolicyChangesInProgressException
     *        Changes to the effective policy are in progress, and its contents can't be returned. Try the operation
     *        again later.
     * @sample AWSOrganizations.AttachPolicy
     * @see <a href="http://docs.aws.amazon.com/goto/WebAPI/organizations-2016-11-28/AttachPolicy"
target="_top">AWS API
     *      Documentation</a>
     */
```

Found in path(s):
* /opt/cola/permits/1463018217_1667607081.037361/0/aws-java-sdk-organizations-1-12-199-sources-jar/com/amazonaws/services/organizations/AWSOrganizationsClient.java
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*/
/**
*
* Performing this operation violates a minimum or maximum value limit. For example, attempting to remove the last
* service control policy (SCP) from an OU or root, inviting or creating too many accounts to the organization, or
* attaching too many policies to an account, OU, or root. This exception includes a reason that contains additional
* information about the violated limit:
*
* <note>
*
* Some of the reasons in the following list might not be applicable to this specific API or operation.
*
* </note>
*
*
*
* ACCOUNT_CANNOT_LEAVE_ORGANIZATION: You attempted to remove the management account from the organization. You can't
* remove the management account. Instead, after you remove all member accounts, delete the organization itself.

*
*
*
*
* ACCOUNT_CANNOT_LEAVE_WITHOUT_PHONE_VERIFICATION: You attempted to remove an account from the organization that
* doesn't yet have enough information to exist as a standalone account. This account requires you to first complete
* phone verification. Follow the steps at <a href=
* "https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_accounts_remove.html#orgs_manage_accounts_remove-from-master"
* >Removing a member account from your organization in the Organizations User Guide.
*
*
*
*
* ACCOUNT_CREATION_RATE_LIMIT_EXCEEDED: You attempted to exceed the number of accounts that you can create in one day.
*
*
*
*
* ACCOUNT_NUMBER_LIMIT_EXCEEDED: You attempted to exceed the limit on the number of accounts in an organization. If you
* need more accounts, contact Amazon Web Services Support to
* request an increase in your limit.
*
*
* Or the number of invitations that you tried to send would cause you to exceed the limit of accounts in your
* organization. Send fewer invitations or contact Amazon Web Services Support to request an increase in the number of
* accounts.
*
* <note>
*
* Deleted and closed accounts still count toward your limit.
*
* </note> <important>
*
* If you get this exception when running a command immediately after creating the organization, wait one hour and try
* again. After an hour, if the command continues to fail with this error, contact <a
* href="https://docs.aws.amazon.com/support/home#/">Amazon Web Services Support.
*
* </important>
*
*

* CANNOT_REGISTER_MASTER_AS_DELEGATED_ADMINISTRATOR: You attempted to register the management account of the
* organization as a delegated administrator for an Amazon Web Services service integrated with Organizations. You can
* designate only a member account as a delegated administrator.
*
*
*
*
* CANNOT_REMOVE_DELEGATED_ADMINISTRATOR_FROM_ORG: You attempted to remove an account that is registered as a delegated
* administrator for a service integrated with your organization. To complete this operation, you must first deregister
* this account as a delegated administrator.
*
*
*
*
* CREATE_ORGANIZATION_IN_BILLING_MODE_UNSUPPORTED_REGION: To create an organization in the specified region, you must
* enable all features mode.
*
*
*
*
* DELEGATED_ADMINISTRATOR_EXISTS_FOR_THIS_SERVICE: You attempted to register an Amazon Web Services account as a
* delegated administrator for an Amazon Web Services service that already has a delegated administrator. To complete
* this operation, you must first deregister any existing delegated administrators for this service.
*
*
*
*
* EMAIL_VERIFICATION_CODE_EXPIRED: The email verification code is only valid for a limited period of time. You must
* resubmit the request and generate a new verfication code.
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*
* HANDSHAKE_RATE_LIMIT_EXCEEDED: You attempted to exceed the number of handshakes that you can send in one day.
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*
* MASTER_ACCOUNT_ADDRESS_DOES_NOT_MATCH_MARKETPLACE: To create an account in this organization, you first must migrate

* the organization's management account to the marketplace that corresponds to the management account's address. For
* example, accounts with India addresses must be associated with the AISPL marketplace. All accounts in an organization
* must be associated with the same marketplace.
*
*
*
*
* MASTER_ACCOUNT_MISSING_BUSINESS_LICENSE: Applies only to the Amazon Web Services /> Regions in China. To create an
* organization, the master must have a valid business license. For more information, contact customer support.
*
*
*
*
* MASTER_ACCOUNT_MISSING_CONTACT_INFO: To complete this operation, you must first provide a valid contact address and
* phone number for the management account. Then try the operation again.
*
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*
*
* MASTER_ACCOUNT_NOT_GOVCLOUD_ENABLED: To complete this operation, the management account must have an associated
* account in the Amazon Web Services GovCloud (US-West) Region. For more information, see <a
* href="https://docs.aws.amazon.com/govcloud-us/latest/UserGuide/govcloud-organizations.html">Organizations in the
* Amazon Web Services GovCloud User Guide.
*
*
*
*
* MASTER_ACCOUNT_PAYMENT_INSTRUMENT_REQUIRED: To create an organization with this management account, you first must
* associate a valid payment instrument, such as a credit card, with the account. Follow the steps at <a href=
* "https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_accounts_remove.html#leave-without-all-info"
* >To leave an organization when all required account information has not yet been provided in the Organizations
* User Guide.
*
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*
* MAX_DELEGATED_ADMINISTRATORS_FOR_SERVICE_LIMIT_EXCEEDED: You attempted to register more delegated administrators than
* allowed for the service principal.

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* MAX_POLICY_TYPE_ATTACHMENT_LIMIT_EXCEEDED: You attempted to exceed the number of policies of a certain type that can
* be attached to an entity at one time.
*
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*
*
* MAX_TAG_LIMIT_EXCEEDED: You have exceeded the number of tags allowed on this resource.
*
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*
*
* MEMBER_ACCOUNT_PAYMENT_INSTRUMENT_REQUIRED: To complete this operation with this member account, you first must
* associate a valid payment instrument, such as a credit card, with the account. Follow the steps at <a href=
* "https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_accounts_remove.html#leave-without-all-info"
* >To leave an organization when all required account information has not yet been provided in the Organizations
* User Guide.
*
*
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*
* MIN_POLICY_TYPE_ATTACHMENT_LIMIT_EXCEEDED: You attempted to detach a policy from an entity that would cause the
* entity to have fewer than the minimum number of policies of a certain type required.
*
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*
* ORGANIZATION_NOT_IN_ALL_FEATURES_MODE: You attempted to perform an operation that requires the organization to be
* configured to support all features. An organization that supports only consolidated billing features can't perform
* this operation.
*
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*
* OU_DEPTH_LIMIT_EXCEEDED: You attempted to create an OU tree that is too many levels deep.
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* OU_NUMBER_LIMIT_EXCEEDED: You attempted to exceed the number of OUs that you can have in an organization.
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* POLICY_CONTENT_LIMIT_EXCEEDED: You attempted to create a policy that is larger than the maximum size.
*
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* POLICY_NUMBER_LIMIT_EXCEEDED: You attempted to exceed the number of policies that you can have in an organization.
*
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*
* SERVICE_ACCESS_NOT_ENABLED: You attempted to register a delegated administrator before you enabled service access.
* Call the <code>EnableAWSServiceAccess</code> API first.
*
*
*
*
* TAG_POLICY_VIOLATION: You attempted to create or update a resource with tags that are not compliant with the tag
* policy requirements for this account.
*
*
*
*
* WAIT_PERIOD_ACTIVE: After you create an Amazon Web Services account, there is a waiting period before you can remove
* it from the organization. If you get an error that indicates that a wait period is required, try again in a few days.
*
*
*
*/

Found in path(s):
* /opt/cola/permits/1463018217_1667607081.037361/0/aws-java-sdk-organizations-1-12-199-sources-jar/com/amazonaws/services/organizations/model/ConstraintViolationException.java

1.541 aws-java-sdk-iotdeviceadvisor 1.12.199

1.541.1 Available under license :

Apache-2.0

1.542 aws-java-sdk-pi 1.12.199

1.542.1 Available under license :

Apache-2.0

1.543 rpm 4.11.3-48.el7_9

1.543.1 Available under license :

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1.548 python-iniparse 0.4-9.el7

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==========

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
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Release	Derived from	Year	Owner	GPL-compatible? (1)

0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
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2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
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Found in path(s):
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/Headers.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/EmptyHeaders.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/DefaultHeaders.java
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* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/ValueConverter.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/DefaultHeadersImpl.java
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* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-

jar/io/netty/handler/codec/UnsupportedValueConverter.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/ProtocolDetectionState.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/HeadersUtils.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
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* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/Crc32c.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/xml/XmlFrameDecoder.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/JdkZlibDecoder.java
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* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/DateFormatter.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/string/LineEncoder.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/string/LineSeparator.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/DatagramPacketEncoder.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/CodecOutputList.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/CompressionUtil.java
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*/
/**
* A decoder that splits the received {@link ByteBuf}s dynamically by the
* value of the length field in the message. It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
* <p>

```
* {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
*
* <h3>2 bytes length field at offset 0, do not strip header</h3>
*
* The value of the length field in this example is <tt>12 (0x0C)</tt> which
* represents the length of "HELLO, WORLD".  By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field.  Therefore, it can be decoded with the simplistic parameter
* combination.
* <pre>
* <b>lengthFieldOffset</b>   = <b>0</b>
* <b>lengthFieldLength</b>   = <b>2</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0 (= do not strip header)
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 0, strip header</h3>
*
* Because we can get the length of the content by calling
* {@link ByteBuf#readableBytes()}, you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>.  In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
* </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
*     represents the length of the whole message</h3>
*
```

```
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples.  However, in some protocols, the
* length field represents the length of the whole message, including the
* message header.  In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>.  Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset   =  0
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip =  0
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example.  An extra
* header value is prepended to the message.  <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b>   = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b>   = <b>3</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* |  0xCAFE  | 0x00000C | "HELLO, WORLD" |      |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body.  You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
```

```
* <b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                 AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C |  0xCAFE  | "HELLO, WORLD" |      | 0x00000C |  0xCAFE  | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
*     strip the first header field and the length field</h3>
*
* This is a combination of all the examples above.  There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>.  We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame.  If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
*
* BEFORE DECODE (16 bytes)                 AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
*     strip the first header field and the length field, the length field
*     represents the length of the whole message</h3>
*
* Let's give another twist to the previous example.  The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because the length field already includes the whole header length.
* <pre>
* lengthFieldOffset   =  1
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b> 3</b>
```

```
*
* BEFORE DECODE (16 bytes)                    AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+
* </pre>
* @see LengthFieldPrepender
*/
```

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* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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*/
/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/
```

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* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/base64/Base64Dialect.java
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*/
/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* <a href="https://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/
```

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* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/base64/Base64.java
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* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/MessageAggregator.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/xml/package-info.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/serialization/CachingClassResolver.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/JdkZlibEncoder.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/base64/Base64Decoder.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/ZlibUtil.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/DecoderResult.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/ReplayingDecoder.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/string/StringEncoder.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/CodecException.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/package-info.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoder.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/JZlibDecoder.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/package-info.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/MessageToMessageDecoder.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-

jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/MessageToMessageCodec.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/string/package-info.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/base64/package-info.java
* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/CompressionException.java
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* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/LineBasedFrameDecoder.java
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* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/ZstdEncoder.java
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* /opt/cola/permits/1221016554_1635406646.48/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/ZstdOptions.java

1.572 amazon-kinesis-client 1.7.0

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1.573 qrencode 3.4.1 3.el7

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1.577 aws-java-sdk-sesv2 1.12.199

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```
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1.598 snappy 0.3

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```

Found in path(s):
* /opt/cola/permits/1111277570_1606891726.11/0/snappy-0-3-sources-2-jar/org/iq80/snappy/CorruptionException.java
* /opt/cola/permits/1111277570_1606891726.11/0/snappy-0-3-sources-2-jar/org/iq80/snappy/SnappyDecompressor.java
* /opt/cola/permits/1111277570_1606891726.11/0/snappy-0-3-sources-2-jar/org/iq80/snappy/Main.java
* /opt/cola/permits/1111277570_1606891726.11/0/snappy-0-3-sources-2-jar/org/iq80/snappy/SnappyOutputStream.java
* /opt/cola/permits/1111277570_1606891726.11/0/snappy-0-3-sources-2-jar/org/iq80/snappy/SnappyInputStream.java
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* /opt/cola/permits/1111277570_1606891726.11/0/snappy-0-3-sources-2-jar/org/iq80/snappy/UnsafeMemory.java
* /opt/cola/permits/1111277570_1606891726.11/0/snappy-0-3-sources-2-jar/org/iq80/snappy/Crc32C.java
* /opt/cola/permits/1111277570_1606891726.11/0/snappy-0-3-sources-2-jar/org/iq80/snappy/SnappyCompressor.java
* /opt/cola/permits/1111277570_1606891726.11/0/snappy-0-3-sources-2-jar/org/iq80/snappy/SlowMemory.java

* /opt/cola/permits/1111277570_1606891726.11/0/snappy-0-3-sources-2-jar/org/iq80/snappy/SnappyInternalUtils.java
* /opt/cola/permits/1111277570_1606891726.11/0/snappy-0-3-sources-2-jar/org/iq80/snappy/BufferRecycler.java

1.599 zstd 1.4.4-7

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1.600 diffutils 3.3 5.el7

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```
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#define GDIFF_MAIN
#include "diff.h"
#include <assert.h>
#include "paths.h"
#include <c-stack.h>
#include <dirname.h>
#include <error.h>
#include <exclude.h>
#include <exitfail.h>
#include <filenamecat.h>
#include <file-type.h>
#include <fnmatch.h>
#include <getopt.h>
#include <hard-locale.h>
#include <prepargs.h>
#include <progname.h>
#include <sh-quote.h>
#include <stat-time.h>
#include <timespec.h>
#include <version-etc.h>
#include <xalloc.h>
#include <xreadlink.h>
#include <binary-io.h>

/* The official name of this program (e.g., no 'g' prefix).  */
#define PROGRAM_NAME "diff"
```

```
#define AUTHORS \
 proper_name ("Paul Eggert"), \
 proper_name ("Mike Haertel"), \
 proper_name ("David Hayes"), \
 proper_name ("Richard Stallman"), \
 proper_name ("Len Tower")

#ifndef GUTTER_WIDTH_MINIMUM
# define GUTTER_WIDTH_MINIMUM 3
#endif

struct regexp_list
{
 char *regexps; /* chars representing disjunction of the regexps */
 size_t len;  /* chars used in 'regexps' */
 size_t size;  /* size malloc'ed for 'regexps'; 0 if not malloc'ed */
 bool multiple_regexps;/* Does 'regexps' represent a disjunction?  */
 struct re_pattern_buffer *buf;
};

static int compare_files (struct comparison const *, char const *, char const *);
static void add_regexp (struct regexp_list *, char const *);
static void summarize_regexp_list (struct regexp_list *);
static void specify_style (enum output_style);
static void specify_value (char const **, char const *, char const *);
static void try_help (char const *, char const *) __attribute__((noreturn));
static void check_stdout (void);
static void usage (void);

/* If comparing directories, compare their common subdirectories
  recursively.  */
static bool recursive;

/* In context diffs, show previous lines that match these regexps.  */
static struct regexp_list function_regexp_list;

/* Ignore changes affecting only lines that match these regexps.  */
static struct regexp_list ignore_regexp_list;

#if O_BINARY
/* Use binary I/O when reading and writing data (--binary).
  On POSIX hosts, this has no effect.  */
static bool binary;
#else
enum { binary = true };
#endif

/* If one file is missing, treat it as present but empty (-N).  */
```

```
static bool new_file;

/* If the first file is missing, treat it as present but empty
  (--unidirectional-new-file).  */
static bool unidirectional_new_file;

/* Report files compared that are the same (-s).
  Normally nothing is output when that happens.  */
static bool report_identical_files;

static char const shortopts[] =
"0123456789abBcC:dD:eEfF:hHiI:lL:nNpPqrsS:tTuU:vwW:x:X:yZ";

/* Values for long options that do not have single-letter equivalents.  */
enum
{
 BINARY_OPTION = CHAR_MAX + 1,
 FROM_FILE_OPTION,
 HELP_OPTION,
 HORIZON_LINES_OPTION,
 IGNORE_FILE_NAME_CASE_OPTION,
 INHIBIT_HUNK_MERGE_OPTION,
 LEFT_COLUMN_OPTION,
 LINE_FORMAT_OPTION,
 NO_DEREFERENCE_OPTION,
 NO_IGNORE_FILE_NAME_CASE_OPTION,
 NORMAL_OPTION,
 SDIFF_MERGE_ASSIST_OPTION,
 STRIP_TRAILING_CR_OPTION,
 SUPPRESS_BLANK_EMPTY_OPTION,
 SUPPRESS_COMMON_LINES_OPTION,
 TABSIZE_OPTION,
 TO_FILE_OPTION,

 /* These options must be in sequence.  */
 UNCHANGED_LINE_FORMAT_OPTION,
 OLD_LINE_FORMAT_OPTION,
 NEW_LINE_FORMAT_OPTION,

 /* These options must be in sequence.  */
 UNCHANGED_GROUP_FORMAT_OPTION,
 OLD_GROUP_FORMAT_OPTION,
 NEW_GROUP_FORMAT_OPTION,
 CHANGED_GROUP_FORMAT_OPTION
};

static char const group_format_option[][sizeof "--unchanged-group-format"] =
 {
```

```
  "--unchanged-group-format",
  "--old-group-format",
  "--new-group-format",
  "--changed-group-format"
 };

static char const line_format_option[][sizeof "--unchanged-line-format"] =
 {
  "--unchanged-line-format",
  "--old-line-format",
  "--new-line-format"
 };

static struct option const longopts[] =
{
 {"binary", 0, 0, BINARY_OPTION},
 {"brief", 0, 0, 'q'},
 {"changed-group-format", 1, 0, CHANGED_GROUP_FORMAT_OPTION},
 {"context", 2, 0, 'C'},
 {"ed", 0, 0, 'e'},
 {"exclude", 1, 0, 'x'},
 {"exclude-from", 1, 0, 'X'},
 {"expand-tabs", 0, 0, 't'},
 {"forward-ed", 0, 0, 'f'},
 {"from-file", 1, 0, FROM_FILE_OPTION},
 {"help", 0, 0, HELP_OPTION},
 {"horizon-lines", 1, 0, HORIZON_LINES_OPTION},
 {"ifdef", 1, 0, 'D'},
 {"ignore-all-space", 0, 0, 'w'},
 {"ignore-blank-lines", 0, 0, 'B'},
 {"ignore-case", 0, 0, 'i'},
 {"ignore-file-name-case", 0, 0, IGNORE_FILE_NAME_CASE_OPTION},
 {"ignore-matching-lines", 1, 0, 'I'},
 {"ignore-space-change", 0, 0, 'b'},
 {"ignore-tab-expansion", 0, 0, 'E'},
 {"ignore-trailing-space", 0, 0, 'Z'},
 {"inhibit-hunk-merge", 0, 0, INHIBIT_HUNK_MERGE_OPTION},
 {"initial-tab", 0, 0, 'T'},
 {"label", 1, 0, 'L'},
 {"left-column", 0, 0, LEFT_COLUMN_OPTION},
 {"line-format", 1, 0, LINE_FORMAT_OPTION},
 {"minimal", 0, 0, 'd'},
 {"new-file", 0, 0, 'N'},
 {"new-group-format", 1, 0, NEW_GROUP_FORMAT_OPTION},
 {"new-line-format", 1, 0, NEW_LINE_FORMAT_OPTION},
 {"no-dereference", 0, 0, NO_DEREFERENCE_OPTION},
 {"no-ignore-file-name-case", 0, 0, NO_IGNORE_FILE_NAME_CASE_OPTION},
 {"normal", 0, 0, NORMAL_OPTION},
```

```
 {"old-group-format", 1, 0, OLD_GROUP_FORMAT_OPTION},
 {"old-line-format", 1, 0, OLD_LINE_FORMAT_OPTION},
 {"paginate", 0, 0, 'l'},
 {"rcs", 0, 0, 'n'},
 {"recursive", 0, 0, 'r'},
 {"report-identical-files", 0, 0, 's'},
 {"sdiff-merge-assist", 0, 0, SDIFF_MERGE_ASSIST_OPTION},
 {"show-c-function", 0, 0, 'p'},
 {"show-function-line", 1, 0, 'F'},
 {"side-by-side", 0, 0, 'y'},
 {"speed-large-files", 0, 0, 'H'},
 {"starting-file", 1, 0, 'S'},
 {"strip-trailing-cr", 0, 0, STRIP_TRAILING_CR_OPTION},
 {"suppress-blank-empty", 0, 0, SUPPRESS_BLANK_EMPTY_OPTION},
 {"suppress-common-lines", 0, 0, SUPPRESS_COMMON_LINES_OPTION},
 {"tabsize", 1, 0, TABSIZE_OPTION},
 {"text", 0, 0, 'a'},
 {"to-file", 1, 0, TO_FILE_OPTION},
 {"unchanged-group-format", 1, 0, UNCHANGED_GROUP_FORMAT_OPTION},
 {"unchanged-line-format", 1, 0, UNCHANGED_LINE_FORMAT_OPTION},
 {"unidirectional-new-file", 0, 0, 'P'},
 {"unified", 2, 0, 'U'},
 {"version", 0, 0, 'v'},
 {"width", 1, 0, 'W'},
 {0, 0, 0, 0}
};

/* Return a string containing the command options with which diff was invoked.
  Spaces appear between what were separate ARGV-elements.
  There is a space at the beginning but none at the end.
  If there were no options, the result is an empty string.

  Arguments: OPTIONVEC, a vector containing separate ARGV-elements, and COUNT,
  the length of that vector.  */

static char *
option_list (char **optionvec, int count)
{
 int i;
 size_t size = 1;
 char *result;
 char *p;

 for (i = 0; i < count; i++)
   size += 1 + shell_quote_length (optionvec[i]);

 p = result = xmalloc (size);
```

```
 for (i = 0; i < count; i++)
   {
     *p++ = ' ';
     p = shell_quote_copy (p, optionvec[i]);
   }

 *p = '\0';
 return result;
}


/* Return an option value suitable for add_exclude.  */

static int
exclude_options (void)
{
 return EXCLUDE_WILDCARDS | (ignore_file_name_case ? FNM_CASEFOLD : 0);
}

int
main (int argc, char **argv)
{
 int exit_status = EXIT_SUCCESS;
 int c;
 int i;
 int prev = -1;
 lin ocontext = -1;
 bool explicit_context = false;
 size_t width = 0;
 bool show_c_function = false;
 char const *from_file = NULL;
 char const *to_file = NULL;
 uintmax_t numval;
 char *numend;

 /* Do our initializations.  */
 exit_failure = EXIT_TROUBLE;
 initialize_main (&argc, &argv);
 set_program_name (argv[0]);
 setlocale (LC_ALL, "");
 bindtextdomain (PACKAGE, LOCALEDIR);
 textdomain (PACKAGE);
 c_stack_action (0);
 function_regexp_list.buf = &function_regexp;
 ignore_regexp_list.buf = &ignore_regexp;
 re_set_syntax (RE_SYNTAX_GREP | RE_NO_POSIX_BACKTRACKING);
 excluded = new_exclude ();
```

```
/* Decode the options.  */

while ((c = getopt_long (argc, argv, shortopts, longopts, NULL)) != -1)
  {
    switch (c)
{
case 0:
  break;

case '0':
case '1':
case '2':
case '3':
case '4':
case '5':
case '6':
case '7':
case '8':
case '9':
  if (! ISDIGIT (prev))
    ocontext = c - '0';
  else if (LIN_MAX / 10 < ocontext
    || ((ocontext = 10 * ocontext + c - '0') < 0))
    ocontext = LIN_MAX;
  break;

case 'a':
  text = true;
  break;

case 'b':
  if (ignore_white_space < IGNORE_SPACE_CHANGE)
    ignore_white_space = IGNORE_SPACE_CHANGE;
  break;

case 'Z':
  if (ignore_white_space < IGNORE_SPACE_CHANGE)
    ignore_white_space |= IGNORE_TRAILING_SPACE;
  break;

case 'B':
  ignore_blank_lines = true;
  break;

case 'C':
case 'U':
  {
    if (optarg)
```

```
      {
  numval = strtoumax (optarg, &numend, 10);
  if (*numend)
    try_help ("invalid context length '%s'", optarg);
  if (LIN_MAX < numval)
    numval = LIN_MAX;
      }
    else
      numval = 3;

    specify_style (c == 'U' ? OUTPUT_UNIFIED : OUTPUT_CONTEXT);
    if (context < numval)
      context = numval;
    explicit_context = true;
  }
  break;

 case 'c':
  specify_style (OUTPUT_CONTEXT);
  if (context < 3)
    context = 3;
  break;

 case 'd':
  minimal = true;
  break;

 case 'D':
  specify_style (OUTPUT_IFDEF);
  {
    static char const C_ifdef_group_formats[] =
      "%%=%c#ifndef %s\n%%<#endif /* ! %s */\n%c#ifdef %s\n%%>#endif /* %s */\n%c#ifndef %s\n%%<#else
/* %s */\n%%>#endif /* %s */\n";
    char *b = xmalloc (sizeof C_ifdef_group_formats
        + 7 * strlen (optarg) - 14 /* 7*"%s" */
        - 8 /* 5*"%%" + 3*"%c" */);
    sprintf (b, C_ifdef_group_formats,
      0,
      optarg, optarg, 0,
      optarg, optarg, 0,
      optarg, optarg, optarg);
    for (i = 0; i < sizeof group_format / sizeof group_format[0]; i++)
      {
  specify_value (&group_format[i], b, "-D");
  b += strlen (b) + 1;
      }
  }
  break;
```

```
 case 'e':
   specify_style (OUTPUT_ED);
   break;

 case 'E':
   if (ignore_white_space < IGNORE_SPACE_CHANGE)
     ignore_white_space |= IGNORE_TAB_EXPANSION;
   break;

 case 'f':
   specify_style (OUTPUT_FORWARD_ED);
   break;

 case 'F':
   add_regexp (&function_regexp_list, optarg);
   break;

 case 'h':
   /* Split the files into chunks for faster processing.
      Usually does not change the result.

      This currently has no effect.  */
   break;

 case 'H':
   speed_large_files = true;
   break;

 case 'i':
   ignore_case = true;
   break;

 case 'I':
   add_regexp (&ignore_regexp_list, optarg);
   break;

 case 'l':
   if (!pr_program[0])
     try_help ("pagination not supported on this host", NULL);
   paginate = true;
#ifdef SIGCHLD
   /* Pagination requires forking and waiting, and
      System V fork+wait does not work if SIGCHLD is ignored.  */
   signal (SIGCHLD, SIG_DFL);
#endif
   break;
```

```
case 'L':
  if (!file_label[0])
    file_label[0] = optarg;
  else if (!file_label[1])
    file_label[1] = optarg;
  else
    fatal ("too many file label options");
  break;

case 'n':
  specify_style (OUTPUT_RCS);
  break;

case 'N':
  new_file = true;
  break;

case 'p':
  show_c_function = true;
  add_regexp (&function_regexp_list, "^[[:alpha:]$_]");
  break;

case 'P':
  unidirectional_new_file = true;
  break;

case 'q':
  brief = true;
  break;

case 'r':
  recursive = true;
  break;

case 's':
  report_identical_files = true;
  break;

case 'S':
  specify_value (&starting_file, optarg, "-S");
  break;

case 't':
  expand_tabs = true;
  break;

case 'T':
  initial_tab = true;
```

```
  break;

 case 'u':
  specify_style (OUTPUT_UNIFIED);
  if (context < 3)
    context = 3;
  break;

 case 'v':
  version_etc (stdout, PROGRAM_NAME, PACKAGE_NAME, Version,
       AUTHORS, (char *) NULL);
  check_stdout ();
  return EXIT_SUCCESS;

 case 'w':
  ignore_white_space = IGNORE_ALL_SPACE;
  break;

 case 'x':
  add_exclude (excluded, optarg, exclude_options ());
  break;

 case 'X':
  if (add_exclude_file (add_exclude, excluded, optarg,
   exclude_options (), '\n'))
    pfatal_with_name (optarg);
  break;

 case 'y':
  specify_style (OUTPUT_SDIFF);
  break;

 case 'W':
  numval = strtoumax (optarg, &numend, 10);
  if (! (0 < numval && numval <= SIZE_MAX) || *numend)
    try_help ("invalid width '%s'", optarg);
  if (width != numval)
    {
      if (width)
 fatal ("conflicting width options");
      width = numval;
    }
  break;

 case BINARY_OPTION:
#if O_BINARY
  binary = true;
  if (! isatty (STDOUT_FILENO))
```

```
    set_binary_mode (STDOUT_FILENO, O_BINARY);
#endif
  break;

 case FROM_FILE_OPTION:
  specify_value (&from_file, optarg, "--from-file");
  break;

 case HELP_OPTION:
  usage ();
  check_stdout ();
  return EXIT_SUCCESS;

 case HORIZON_LINES_OPTION:
  numval = strtoumax (optarg, &numend, 10);
  if (*numend)
    try_help ("invalid horizon length '%s'", optarg);
  horizon_lines = MAX (horizon_lines, MIN (numval, LIN_MAX));
  break;

 case IGNORE_FILE_NAME_CASE_OPTION:
  ignore_file_name_case = true;
  break;

 case INHIBIT_HUNK_MERGE_OPTION:
  /* This option is obsolete, but accept it for backward
         compatibility.  */
  break;

 case LEFT_COLUMN_OPTION:
  left_column = true;
  break;

 case LINE_FORMAT_OPTION:
  specify_style (OUTPUT_IFDEF);
  for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
    specify_value (&line_format[i], optarg, "--line-format");
  break;

 case NO_DEREFERENCE_OPTION:
  no_dereference_symlinks = true;
  break;

 case NO_IGNORE_FILE_NAME_CASE_OPTION:
  ignore_file_name_case = false;
  break;

 case NORMAL_OPTION:
```

```
  specify_style (OUTPUT_NORMAL);
  break;

case SDIFF_MERGE_ASSIST_OPTION:
  specify_style (OUTPUT_SDIFF);
  sdiff_merge_assist = true;
  break;

case STRIP_TRAILING_CR_OPTION:
  strip_trailing_cr = true;
  break;

case SUPPRESS_BLANK_EMPTY_OPTION:
  suppress_blank_empty = true;
  break;

case SUPPRESS_COMMON_LINES_OPTION:
  suppress_common_lines = true;
  break;

case TABSIZE_OPTION:
  numval = strtoumax (optarg, &numend, 10);
  if (! (0 < numval && numval <= SIZE_MAX) || *numend)
    try_help ("invalid tabsize '%s'", optarg);
  if (tabsize != numval)
    {
      if (tabsize)
 fatal ("conflicting tabsize options");
      tabsize = numval;
    }
  break;

case TO_FILE_OPTION:
  specify_value (&to_file, optarg, "--to-file");
  break;

case UNCHANGED_LINE_FORMAT_OPTION:
case OLD_LINE_FORMAT_OPTION:
case NEW_LINE_FORMAT_OPTION:
  specify_style (OUTPUT_IFDEF);
  c -= UNCHANGED_LINE_FORMAT_OPTION;
  specify_value (&line_format[c], optarg, line_format_option[c]);
  break;

case UNCHANGED_GROUP_FORMAT_OPTION:
case OLD_GROUP_FORMAT_OPTION:
case NEW_GROUP_FORMAT_OPTION:
case CHANGED_GROUP_FORMAT_OPTION:
```

```
  specify_style (OUTPUT_IFDEF);
  c -= UNCHANGED_GROUP_FORMAT_OPTION;
  specify_value (&group_format[c], optarg, group_format_option[c]);
  break;

 default:
  try_help (NULL, NULL);
 }
    prev = c;
  }

 if (output_style == OUTPUT_UNSPECIFIED)
  {
    if (show_c_function)
 {
  specify_style (OUTPUT_CONTEXT);
  if (ocontext < 0)
    context = 3;
 }
    else
 specify_style (OUTPUT_NORMAL);
  }

 if (output_style != OUTPUT_CONTEXT || hard_locale (LC_TIME))
  {
#if (defined STAT_TIMESPEC || defined STAT_TIMESPEC_NS \
   || defined HAVE_STRUCT_STAT_ST_SPARE1)
    time_format = "%Y-%m-%d %H:%M:%S.%N %z";
#else
    time_format = "%Y-%m-%d %H:%M:%S %z";
#endif
  }
 else
  {
   /* See POSIX 1003.1-2001 for this format.  */
    time_format = "%a %b %e %T %Y";
  }

 if (0 <= ocontext
    && (output_style == OUTPUT_CONTEXT
  || output_style == OUTPUT_UNIFIED)
    && (context < ocontext
  || (ocontext < context && ! explicit_context)))
  context = ocontext;

 if (! tabsize)
  tabsize = 8;
 if (! width)
```

```
  width = 130;

{
  /* Maximize first the half line width, and then the gutter width,
     according to the following constraints:

1.  Two half lines plus a gutter must fit in a line.
2.  If the half line width is nonzero:
    a.  The gutter width is at least GUTTER_WIDTH_MINIMUM.
    b.  If tabs are not expanded to spaces,
 a half line plus a gutter is an integral number of tabs,
 so that tabs in the right column line up.  */

  intmax_t t = expand_tabs ? 1 : tabsize;
  intmax_t w = width;
  intmax_t off = (w + t + GUTTER_WIDTH_MINIMUM) / (2 * t)  *  t;
  sdiff_half_width = MAX (0, MIN (off - GUTTER_WIDTH_MINIMUM, w - off));
  sdiff_column2_offset = sdiff_half_width ? off : w;
}

/* Make the horizon at least as large as the context, so that
   shift_boundaries has more freedom to shift the first and last hunks.  */
if (horizon_lines < context)
  horizon_lines = context;

summarize_regexp_list (&function_regexp_list);
summarize_regexp_list (&ignore_regexp_list);

if (output_style == OUTPUT_IFDEF)
  {
    for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
if (!line_format[i])
  line_format[i] = "%l\n";
    if (!group_format[OLD])
group_format[OLD]
  = group_format[CHANGED] ? group_format[CHANGED] : "%<";
    if (!group_format[NEW])
group_format[NEW]
  = group_format[CHANGED] ? group_format[CHANGED] : "%>";
    if (!group_format[UNCHANGED])
group_format[UNCHANGED] = "%=";
    if (!group_format[CHANGED])
group_format[CHANGED] = concat (group_format[OLD],
    group_format[NEW], "");
  }

no_diff_means_no_output =
  (output_style == OUTPUT_IFDEF ?
```

```
    (!*group_format[UNCHANGED]
     || (STREQ (group_format[UNCHANGED], "%=")
   && !*line_format[UNCHANGED]))
   : (output_style != OUTPUT_SDIFF) | suppress_common_lines);

files_can_be_treated_as_binary =
  (brief & binary
   & ~ (ignore_blank_lines | ignore_case | strip_trailing_cr
  | (ignore_regexp_list.regexps || ignore_white_space)));

switch_string = option_list (argv + 1, optind - 1);

if (from_file)
  {
    if (to_file)
fatal ("--from-file and --to-file both specified");
    else
for (; optind < argc; optind++)
  {
    int status = compare_files (NULL, from_file, argv[optind]);
    if (exit_status < status)
      exit_status = status;
  }
  }
else
  {
    if (to_file)
for (; optind < argc; optind++)
  {
    int status = compare_files (NULL, argv[optind], to_file);
    if (exit_status < status)
      exit_status = status;
  }
    else
{
  if (argc - optind != 2)
    {
      if (argc - optind < 2)
 try_help ("missing operand after '%s'", argv[argc - 1]);
      else
 try_help ("extra operand '%s'", argv[optind + 2]);
    }

  exit_status = compare_files (NULL, argv[optind], argv[optind + 1]);
}
  }

/* Print any messages that were saved up for last.  */
```

```
 print_message_queue ();

 check_stdout ();
 exit (exit_status);
 return exit_status;
}

/* Append to REGLIST the regexp PATTERN.  */

static void
add_regexp (struct regexp_list *reglist, char const *pattern)
{
 size_t patlen = strlen (pattern);
 char const *m = re_compile_pattern (pattern, patlen, reglist->buf);

 if (m != 0)
   error (0, 0, "%s: %s", pattern, m);
 else
   {
     char *regexps = reglist->regexps;
     size_t len = reglist->len;
     bool multiple_regexps = reglist->multiple_regexps = regexps != 0;
     size_t newlen = reglist->len = len + 2 * multiple_regexps + patlen;
     size_t size = reglist->size;

     if (size <= newlen)
 {
   if (!size)
     size = 1;

   do size *= 2;
   while (size <= newlen);

   reglist->size = size;
   reglist->regexps = regexps = xrealloc (regexps, size);
 }
     if (multiple_regexps)
 {
   regexps[len++] = '\\';
   regexps[len++] = '|';
 }
     memcpy (regexps + len, pattern, patlen + 1);
   }
}

/* Ensure that REGLIST represents the disjunction of its regexps.
   This is done here, rather than earlier, to avoid O(N^2) behavior.  */
```

```
static void
summarize_regexp_list (struct regexp_list *reglist)
{
 if (reglist->regexps)
   {
     /* At least one regexp was specified.  Allocate a fastmap for it.  */
     reglist->buf->fastmap = xmalloc (1 << CHAR_BIT);
     if (reglist->multiple_regexps)
 {
   /* Compile the disjunction of the regexps.
      (If just one regexp was specified, it is already compiled.)  */
   char const *m = re_compile_pattern (reglist->regexps, reglist->len,
         reglist->buf);
   if (m)
     error (EXIT_TROUBLE, 0, "%s: %s", reglist->regexps, m);
 }
   }
}

static void
try_help (char const *reason_msgid, char const *operand)
{
 if (reason_msgid)
   error (0, 0, _(reason_msgid), operand);
 error (EXIT_TROUBLE, 0, _("Try '%s --help' for more information."),
  program_name);
 abort ();
}

static void
check_stdout (void)
{
 if (ferror (stdout))
   fatal ("write failed");
 else if (fclose (stdout) != 0)
   pfatal_with_name (_("standard output"));
}

static char const * const option_help_msgid[] = {
 N_("    --normal                 output a normal diff (the default)"),
 N_("-q, --brief                  report only when files differ"),
 N_("-s, --report-identical-files  report when two files are the same"),
 N_("-c, -C NUM, --context[=NUM]   output NUM (default 3) lines of copied context"),
 N_("-u, -U NUM, --unified[=NUM]   output NUM (default 3) lines of unified context"),
 N_("-e, --ed                     output an ed script"),
 N_("-n, --rcs                    output an RCS format diff"),
 N_("-y, --side-by-side           output in two columns"),
 N_("-W, --width=NUM              output at most NUM (default 130) print columns"),
```

```
 N_("    --left-column             output only the left column of common lines"),
 N_("    --suppress-common-lines   do not output common lines"),
 "",
 N_("-p, --show-c-function         show which C function each change is in"),
 N_("-F, --show-function-line=RE   show the most recent line matching RE"),
 N_("    --label LABEL             use LABEL instead of file name\n"
   "                          (can be repeated)"),
 "",
 N_("-t, --expand-tabs             expand tabs to spaces in output"),
 N_("-T, --initial-tab             make tabs line up by prepending a tab"),
 N_("    --tabsize=NUM             tab stops every NUM (default 8) print columns"),
 N_("    --suppress-blank-empty    suppress space or tab before empty output lines"),
 N_("-l, --paginate                pass output through 'pr' to paginate it"),
 "",
 N_("-r, --recursive               recursively compare any subdirectories found"),
 N_("    --no-dereference          don't follow symbolic links"),
 N_("-N, --new-file                treat absent files as empty"),
 N_("    --unidirectional-new-file   treat absent first files as empty"),
 N_("    --ignore-file-name-case     ignore case when comparing file names"),
 N_("    --no-ignore-file-name-case  consider case when comparing file names"),
 N_("-x, --exclude=PAT             exclude files that match PAT"),
 N_("-X, --exclude-from=FILE       exclude files that match any pattern in FILE"),
 N_("-S, --starting-file=FILE      start with FILE when comparing directories"),
 N_("    --from-file=FILE1         compare FILE1 to all operands;\n"
   "                          FILE1 can be a directory"),
 N_("    --to-file=FILE2           compare all operands to FILE2;\n"
   "                          FILE2 can be a directory"),
 "",
 N_("-i, --ignore-case             ignore case differences in file contents"),
 N_("-E, --ignore-tab-expansion    ignore changes due to tab expansion"),
 N_("-Z, --ignore-trailing-space   ignore white space at line end"),
 N_("-b, --ignore-space-change     ignore changes in the amount of white space"),
 N_("-w, --ignore-all-space        ignore all white space"),
 N_("-B, --ignore-blank-lines      ignore changes where lines are all blank"),
 N_("-I, --ignore-matching-lines=RE  ignore changes where all lines match RE"),
 "",
 N_("-a, --text                    treat all files as text"),
 N_("    --strip-trailing-cr       strip trailing carriage return on input"),
#if O_BINARY
 N_("    --binary                  read and write data in binary mode"),
#endif
 "",
 N_("-D, --ifdef=NAME              output merged file with '#ifdef NAME' diffs"),
 N_("    --GTYPE-group-format=GFMT   format GTYPE input groups with GFMT"),
 N_("    --line-format=LFMT        format all input lines with LFMT"),
 N_("    --LTYPE-line-format=LFMT    format LTYPE input lines with LFMT"),
 N_("  These format options provide fine-grained control over the output\n"
   "    of diff, generalizing -D/--ifdef."),
```

```
 N_("  LTYPE is 'old', 'new', or 'unchanged'.  GTYPE is LTYPE or 'changed'."),
 N_("  GFMT (only) may contain:\n\
   %<  lines from FILE1\n\
   %>  lines from FILE2\n\
   %=  lines common to FILE1 and FILE2\n\
   %[-][WIDTH][.[PREC]]{doxX}LETTER  printf-style spec for LETTER\n\
     LETTERs are as follows for new group, lower case for old group:\n\
       F  first line number\n\
       L  last line number\n\
       N  number of lines = L-F+1\n\
       E  F-1\n\
       M  L+1\n\
   %(A=B?T:E)  if A equals B then T else E"),
 N_("  LFMT (only) may contain:\n\
   %L  contents of line\n\
   %l  contents of line, excluding any trailing newline\n\
   %[-][WIDTH][.[PREC]]{doxX}n  printf-style spec for input line number"),
 N_("  Both GFMT and LFMT may contain:\n\
   %%  %\n\
   %c'C'  the single character C\n\
   %c'\\OOO'  the character with octal code OOO\n\
   C    the character C (other characters represent themselves)"),
 "",
 N_("-d, --minimal            try hard to find a smaller set of changes"),
 N_("    --horizon-lines=NUM  keep NUM lines of the common prefix and suffix"),
 N_("    --speed-large-files  assume large files and many scattered small changes"),
 "",
 N_("    --help               display this help and exit"),
 N_("-v, --version            output version information and exit"),
 "",
 N_("FILES are 'FILE1 FILE2' or 'DIR1 DIR2' or 'DIR FILE...' or 'FILE... DIR'."),
 N_("If --from-file or --to-file is given, there are no restrictions on FILE(s)."),
 N_("If a FILE is '-', read standard input."),
 N_("Exit status is 0 if inputs are the same, 1 if different, 2 if trouble."),
 0
};

static void
usage (void)
{
 char const * const *p;

 printf (_("Usage: %s [OPTION]... FILES\n"), program_name);
 printf ("%s\n\n", _("Compare FILES line by line."));

 fputs (_("\
Mandatory arguments to long options are mandatory for short options too.\n\
"), stdout);
```

```
 for (p = option_help_msgid;  *p;  p++)
   {
     if (!**p)
 putchar ('\n');
     else
 {
   char const *msg = _(*p);
   char const *nl;
   while ((nl = strchr (msg, '\n')))
     {
       int msglen = nl + 1 - msg;
       printf ("  %.*s", msglen, msg);
       msg = nl + 1;
     }

   printf ("  %s\n" + 2 * (*msg != ' ' && *msg != '-'), msg);
 }
   }
 emit_bug_reporting_address ();
}

/* Set VAR to VALUE, reporting an OPTION error if this is a
  conflict.  */
static void
specify_value (char const **var, char const *value, char const *option)
{
 if (*var && ! STREQ (*var, value))
   {
     error (0, 0, _("conflicting %s option value '%s'"), option, value);
     try_help (NULL, NULL);
   }
 *var = value;
}

/* Set the output style to STYLE, diagnosing conflicts.  */
static void
specify_style (enum output_style style)
{
 if (output_style != style)
   {
     if (output_style != OUTPUT_UNSPECIFIED)
 try_help ("conflicting output style options", NULL);
     output_style = style;
   }
}

/* Set the last-modified time of *ST to be the current time.  */
```

```
static void
set_mtime_to_now (struct stat *st)
{
#ifdef STAT_TIMESPEC
 gettime (&STAT_TIMESPEC (st, st_mtim));
#else
 struct timespec t;
 gettime (&t);
 st->st_mtime = t.tv_sec;
# if defined STAT_TIMESPEC_NS
 STAT_TIMESPEC_NS (st, st_mtim) = t.tv_nsec;
# elif defined HAVE_STRUCT_STAT_ST_SPARE1
 st->st_spare1 = t.tv_nsec / 1000;
# endif
#endif
}

/* Compare two files (or dirs) with parent comparison PARENT
  and names NAME0 and NAME1.
  (If PARENT is null, then the first name is just NAME0, etc.)
  This is self-contained; it opens the files and closes them.

  Value is EXIT_SUCCESS if files are the same, EXIT_FAILURE if
  different, EXIT_TROUBLE if there is a problem opening them.  */

static int
compare_files (struct comparison const *parent,
       char const *name0,
       char const *name1)
{
 struct comparison cmp;
#define DIR_P(f) (S_ISDIR (cmp.file[f].stat.st_mode) != 0)
 register int f;
 int status = EXIT_SUCCESS;
 bool same_files;
 char *free0;
 char *free1;

 /* If this is directory comparison, perhaps we have a file
    that exists only in one of the directories.
    If so, just print a message to that effect.  */

 if (! ((name0 && name1)
  || (unidirectional_new_file && name1)
  || new_file))
   {
     char const *name = name0 ? name0 : name1;
```

```
    char const *dir = parent->file[!name0].name;

    /* See POSIX 1003.1-2001 for this format.  */
    message ("Only in %s: %s\n", dir, name);

    /* Return EXIT_FAILURE so that diff_dirs will return
 EXIT_FAILURE ("some files differ").  */
    return EXIT_FAILURE;
  }

 memset (cmp.file, 0, sizeof cmp.file);
 cmp.parent = parent;

 /* cmp.file[f].desc markers */
#define NONEXISTENT (-1) /* nonexistent file */
#define UNOPENED (-2) /* unopened file (e.g. directory) */
#define ERRNO_ENCODE(errno) (-3 - (errno)) /* encoded errno value */

#define ERRNO_DECODE(desc) (-3 - (desc)) /* inverse of ERRNO_ENCODE */

 cmp.file[0].desc = name0 ? UNOPENED : NONEXISTENT;
 cmp.file[1].desc = name1 ? UNOPENED : NONEXISTENT;

 /* Now record the full name of each file, including nonexistent ones.  */

 if (!name0)
   name0 = name1;
 if (!name1)
   name1 = name0;

 if (!parent)
   {
     free0 = NULL;
     free1 = NULL;
     cmp.file[0].name = name0;
     cmp.file[1].name = name1;
   }
 else
   {
     cmp.file[0].name = free0
= file_name_concat (parent->file[0].name, name0, NULL);
     cmp.file[1].name = free1
= file_name_concat (parent->file[1].name, name1, NULL);
   }

 /* Stat the files.  */

 for (f = 0; f < 2; f++)
```

```
 {
   if (cmp.file[f].desc != NONEXISTENT)
{
 if (f && file_name_cmp (cmp.file[f].name, cmp.file[0].name) == 0)
   {
     cmp.file[f].desc = cmp.file[0].desc;
     cmp.file[f].stat = cmp.file[0].stat;
   }
 else if (STREQ (cmp.file[f].name, "-"))
   {
     cmp.file[f].desc = STDIN_FILENO;
     if (binary && ! isatty (STDIN_FILENO))
set_binary_mode (STDIN_FILENO, O_BINARY);
     if (fstat (STDIN_FILENO, &cmp.file[f].stat) != 0)
cmp.file[f].desc = ERRNO_ENCODE (errno);
     else
{
  if (S_ISREG (cmp.file[f].stat.st_mode))
    {
      off_t pos = lseek (STDIN_FILENO, 0, SEEK_CUR);
      if (pos < 0)
 cmp.file[f].desc = ERRNO_ENCODE (errno);
      else
 cmp.file[f].stat.st_size =
   MAX (0, cmp.file[f].stat.st_size - pos);
    }

  /* POSIX 1003.1-2001 requires current time for
     stdin.  */
  set_mtime_to_now (&cmp.file[f].stat);
}
   }
 else if ((no_dereference_symlinks
    ? lstat (cmp.file[f].name, &cmp.file[f].stat)
    : stat (cmp.file[f].name, &cmp.file[f].stat))
   != 0)
   cmp.file[f].desc = ERRNO_ENCODE (errno);
}
  }

/* Mark files as nonexistent as needed for -N and -P, if they are
   inaccessible empty regular files (the kind of files that 'patch'
   creates to indicate nonexistent backups), or if they are
   top-level files that do not exist but their counterparts do
   exist.  */
for (f = 0; f < 2; f++)
  if ((new_file || (f == 0 && unidirectional_new_file))
&& (cmp.file[f].desc == UNOPENED
```

```
    ? (S_ISREG (cmp.file[f].stat.st_mode)
       && ! (cmp.file[f].stat.st_mode & (S_IRWXU | S_IRWXG | S_IRWXO))
       && cmp.file[f].stat.st_size == 0)
    : ((cmp.file[f].desc == ERRNO_ENCODE (ENOENT)
 || cmp.file[f].desc == ERRNO_ENCODE (EBADF))
       && ! parent
       && (cmp.file[1 - f].desc == UNOPENED
    || cmp.file[1 - f].desc == STDIN_FILENO))))
    cmp.file[f].desc = NONEXISTENT;

for (f = 0; f < 2; f++)
  if (cmp.file[f].desc == NONEXISTENT)
    {
memset (&cmp.file[f].stat, 0, sizeof cmp.file[f].stat);
cmp.file[f].stat.st_mode = cmp.file[1 - f].stat.st_mode;
    }

for (f = 0; f < 2; f++)
  {
    int e = ERRNO_DECODE (cmp.file[f].desc);
    if (0 <= e)
{
  errno = e;
  perror_with_name (cmp.file[f].name);
  status = EXIT_TROUBLE;
}
  }

if (status == EXIT_SUCCESS && ! parent && DIR_P (0) != DIR_P (1))
  {
    /* If one is a directory, and it was specified in the command line,
 use the file in that dir with the other file's basename.  */

    int fnm_arg = DIR_P (0);
    int dir_arg = 1 - fnm_arg;
    char const *fnm = cmp.file[fnm_arg].name;
    char const *dir = cmp.file[dir_arg].name;
    char const *filename = cmp.file[dir_arg].name = free0
= find_dir_file_pathname (dir, last_component (fnm));

    if (STREQ (fnm, "-"))
fatal ("cannot compare '-' to a directory");

    if ((no_dereference_symlinks
   ? lstat (filename, &cmp.file[dir_arg].stat)
   : stat (filename, &cmp.file[dir_arg].stat))
  != 0)
{
```

```
  perror_with_name (filename);
  status = EXIT_TROUBLE;
}
  }

if (status != EXIT_SUCCESS)
  {
    /* One of the files should exist but does not.  */
  }
else if (cmp.file[0].desc == NONEXISTENT
   && cmp.file[1].desc == NONEXISTENT)
  {
    /* Neither file "exists", so there's nothing to compare.  */
  }
else if ((same_files
    = (cmp.file[0].desc != NONEXISTENT
       && cmp.file[1].desc != NONEXISTENT
       && 0 < same_file (&cmp.file[0].stat, &cmp.file[1].stat)
       && same_file_attributes (&cmp.file[0].stat,
    &cmp.file[1].stat)))
   && no_diff_means_no_output)
  {
    /* The two named files are actually the same physical file.
 We know they are identical without actually reading them.  */
  }
else if (DIR_P (0) & DIR_P (1))
  {
    if (output_style == OUTPUT_IFDEF)
fatal ("-D option not supported with directories");

    /* If both are directories, compare the files in them.  */

    if (parent && !recursive)
{
  /* But don't compare dir contents one level down
     unless -r was specified.
     See POSIX 1003.1-2001 for this format.  */
  message ("Common subdirectories: %s and %s\n",
    cmp.file[0].name, cmp.file[1].name);
}
    else
status = diff_dirs (&cmp, compare_files);
  }
else if ((DIR_P (0) | DIR_P (1))
   || (parent
       && !((S_ISREG (cmp.file[0].stat.st_mode)
      || S_ISLNK (cmp.file[0].stat.st_mode))
     && (S_ISREG (cmp.file[1].stat.st_mode)
```

```
 || S_ISLNK  (cmp.file[1].stat.st_mode)))))
 {
   if (cmp.file[0].desc == NONEXISTENT || cmp.file[1].desc == NONEXISTENT)
{
 /* We have a subdirectory that exists only in one directory.  */

 if ((DIR_P (0) | DIR_P (1))
     && recursive
     && (new_file
  || (unidirectional_new_file
      && cmp.file[0].desc == NONEXISTENT)))
   status = diff_dirs (&cmp, compare_files);
 else
   {
     char const *dir;

     /* PARENT must be non-NULL here.  */
     assert (parent);
     dir = parent->file[cmp.file[0].desc == NONEXISTENT].name;

     /* See POSIX 1003.1-2001 for this format.  */
     message ("Only in %s: %s\n", dir, name0);

     status = EXIT_FAILURE;
   }
}
   else
{
 /* We have two files that are not to be compared.  */

 /* See POSIX 1003.1-2001 for this format.  */
 message5 ("File %s is a %s while file %s is a %s\n",
    file_label[0] ? file_label[0] : cmp.file[0].name,
    file_type (&cmp.file[0].stat),
    file_label[1] ? file_label[1] : cmp.file[1].name,
    file_type (&cmp.file[1].stat));

 /* This is a difference.  */
 status = EXIT_FAILURE;
}
 }
else if (S_ISLNK (cmp.file[0].stat.st_mode)
  || S_ISLNK (cmp.file[1].stat.st_mode))
 {
   /* We get here only if we use lstat(), not stat().  */
   assert (no_dereference_symlinks);

   if (S_ISLNK (cmp.file[0].stat.st_mode)
```

```
 && S_ISLNK (cmp.file[1].stat.st_mode))
{
 /* Compare the values of the symbolic links.  */
 char *link_value[2] = { NULL, NULL };

 for (f = 0; f < 2; f++)
   {
    link_value[f] = xreadlink (cmp.file[f].name);
    if (link_value[f] == NULL)
{
 perror_with_name (cmp.file[f].name);
 status = EXIT_TROUBLE;
 break;
}
   }
 if (status == EXIT_SUCCESS)
   {
    if ( ! STREQ (link_value[0], link_value[1]))
{
 message ("Symbolic links %s and %s differ\n",
   cmp.file[0].name, cmp.file[1].name);
 /* This is a difference.  */
 status = EXIT_FAILURE;
}
   }
 for (f = 0; f < 2; f++)
   free (link_value[f]);
}
   else
{
 /* We have two files that are not to be compared, because
    one of them is a symbolic link and the other one is not.  */

 message5 ("File %s is a %s while file %s is a %s\n",
    file_label[0] ? file_label[0] : cmp.file[0].name,
    file_type (&cmp.file[0].stat),
    file_label[1] ? file_label[1] : cmp.file[1].name,
    file_type (&cmp.file[1].stat));

 /* This is a difference.  */
 status = EXIT_FAILURE;
}
 }
else if (files_can_be_treated_as_binary
  && S_ISREG (cmp.file[0].stat.st_mode)
  && S_ISREG (cmp.file[1].stat.st_mode)
  && cmp.file[0].stat.st_size != cmp.file[1].stat.st_size)
 {
```

```
    message ("Files %s and %s differ\n",
       file_label[0] ? file_label[0] : cmp.file[0].name,
       file_label[1] ? file_label[1] : cmp.file[1].name);
    status = EXIT_FAILURE;
  }
else
  {
    /* Both exist and neither is a directory.  */

    /* Open the files and record their descriptors.  */

    int oflags = O_RDONLY | (binary ? O_BINARY : 0);

    if (cmp.file[0].desc == UNOPENED)
if ((cmp.file[0].desc = open (cmp.file[0].name, oflags, 0)) < 0)
  {
    perror_with_name (cmp.file[0].name);
    status = EXIT_TROUBLE;
  }
    if (cmp.file[1].desc == UNOPENED)
{
  if (same_files)
    cmp.file[1].desc = cmp.file[0].desc;
  else if ((cmp.file[1].desc = open (cmp.file[1].name, oflags, 0)) < 0)
    {
      perror_with_name (cmp.file[1].name);
      status = EXIT_TROUBLE;
    }
}

    /* Compare the files, if no error was found.  */

    if (status == EXIT_SUCCESS)
status = diff_2_files (&cmp);

    /* Close the file descriptors.  */

    if (0 <= cmp.file[0].desc && close (cmp.file[0].desc) != 0)
{
  perror_with_name (cmp.file[0].name);
  status = EXIT_TROUBLE;
}
    if (0 <= cmp.file[1].desc && cmp.file[0].desc != cmp.file[1].desc
  && close (cmp.file[1].desc) != 0)
{
  perror_with_name (cmp.file[1].name);
  status = EXIT_TROUBLE;
}
```

```
  }

/* Now the comparison has been done, if no error prevented it,
   and STATUS is the value this function will return.  */

if (status == EXIT_SUCCESS)
  {
    if (report_identical_files && !DIR_P (0))
message ("Files %s and %s are identical\n",
  file_label[0] ? file_label[0] : cmp.file[0].name,
  file_label[1] ? file_label[1] : cmp.file[1].name);
  }
else
  {
    /* Flush stdout so that the user sees differences immediately.
 This can hurt performance, unfortunately.  */
    if (fflush (stdout) != 0)
pfatal_with_name (_("standard output"));
  }

free (free0);
free (free1);

return status;
}
```

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1.622 schema-registry-serde 1.1.1

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1.623 schema-registry-build-tools 1.1.1

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1.624 aws-java-sdk-codeguruprofiler 1.12.199

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1.625 jakarta xml bind api 2.3.3

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1.627 python 2.7.5-92.el7_9

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A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python

releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
because its license has a choice of law clause. According to
CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
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Thanks to the many outside volunteers who have worked under Guido's
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1.628 pyxattr 0.5.1 5.el7

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1.629 guava 25.0-jre

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/**
  * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
  * key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
  * version.
  *
  * @throws UnsupportedOperationException always
  * @deprecated <b>Pass a key of type {@code Comparable} to use {@link
  *     ImmutableSortedMap#of(Comparable, Object)}.</b>
  */
```

Found in path(s):
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ComparatorOrdering.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/AbstractIndexedListIterator.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableAsList.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ComputationException.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ComparisonChain.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableSetMultimap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableEnumSet.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/RegularImmutableSortedSet.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableClassToInstanceMap.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/SingletonImmutableTable.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableMapEntry.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/WrappingExecutorService.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/AbstractScheduledService.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/EmptyContiguousSet.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/Murmur3_128HashFunction.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/cache/LoadingCache.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/PrimitiveSink.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
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jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ForwardingSortedMultiset.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/GeneralRange.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/AbstractRangeSet.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/SortedIterable.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableSortedMultiset.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-

jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/ReaderInputStream.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ConsumingQueueIterator.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/Platform.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/primitives/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Equivalence.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Strings.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/net/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/SortedLists.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/UncaughtExceptionHandlers.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ContiguousSet.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/Monitor.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/annotations/Beta.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Ascii.java
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*/
/**
* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
* {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
* under GWT but with a slightly different signature.
*
* <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler wouldn't recognize
* it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/
```

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/annotations/VisibleForTesting.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/PatternFilenameFilter.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/FluentFuture.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/escape/CharEscaper.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/AbstractTransformFuture.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-

jar/com/google/common/util/concurrent/TimeoutFuture.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/AppendableWriter.java
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*/
/**
* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
* version.
*/
```

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/AbstractSequentialIterator.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ForwardingSortedSetMultimap.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ForwardingImmutableCollection.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/MinMaxPriorityQueue.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ForwardingSetMultimap.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/primitives/ImmutableIntArray.java
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*/
/**
  * Returns an array containing all of the elements in the specified collection. This method
  * returns the elements in the order they are returned by the collection's iterator. The returned
  * array is "safe" in that no references to it are maintained by the collection. The caller is
  * thus free to modify the returned array.
  *
  * <p>This method assumes that the collection size doesn't change while the method is running.
  *
  * <p>TODO(kevinb): support concurrently modified collections?
  *
  * @param c the collection for which to return an array of elements

*/

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/CommonMatcher.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Verify.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Predicates.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Objects.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Function.java

* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Defaults.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/eventbus/AsyncEventBus.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/eventbus/Subscribe.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/ByteStreams.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/EnumMultiset.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/LittleEndianDataInputStream.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Predicate.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/eventbus/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/CountingOutputStream.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/MultiInputStream.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/FinalizableReference.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/FinalizableReferenceQueue.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/eventbus/AllowConcurrentEvents.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/Resources.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/ListenableFuture.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/Interners.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Supplier.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/LineBuffer.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/FinalizableSoftReference.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/Closeables.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/AbstractFuture.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/Flushables.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/CharStreams.java

* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Suppliers.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/LittleEndianDataOutputStream.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/AbstractIterator.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Functions.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Throwables.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/package-info.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/ExecutionList.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/FinalizablePhantomReference.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/HashBiMap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/Files.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Charsets.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Preconditions.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/CountingInputStream.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/FinalizableWeakReference.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/InsecureRecursiveDeleteException.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/graph/ImmutableNetwork.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/graph/SuccessorsFunction.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/graph/MutableGraph.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/graph/Network.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/graph/MutableNetwork.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/graph/Graph.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/graph/Graphs.java
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```
 *
 * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
 * java.util.HashMap class.
 */
```

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/JdkBackedImmutableSet.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/graph/AbstractBaseGraph.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/graph/Traverser.java
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/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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 */

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableRangeMap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/math/PairedStatsAccumulator.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/math/StatsAccumulator.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/reflect/Parameter.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/SipHashFunction.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/ByteSource.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/reflect/ClassPath.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/reflect/Element.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/annotations/GwtCompatible.java
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The snowball stemmers in
analysis/common/src/java/net/sf/snowball
were developed by Martin Porter and Richard Boulton.
The snowball stopword lists in
analysis/common/src/resources/org/apache/lucene/analysis/snowball
were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
http://snowball.tartarus.org/

The KStem stemmer in
analysis/common/src/org/apache/lucene/analysis/en
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst)
under the BSD-license.

The Arabic,Persian,Romanian,Bulgarian, and Hindi analyzers (common) come with a default stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:
analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt
See http://members.unine.ch/jacques.savoy/clef/index.html.

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers (common) are based on BSD-licensed reference implementations created by Jacques Savoy and Ljiljana Dolamic. These files reside in:
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java

analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

The Stempel analyzer (stempel) includes BSD-licensed software developed
by the Egothor project http://egothor.sf.net/, created by Leo Galambos, Martin Kvapil,
and Edmond Nolan.

The Polish analyzer (stempel) comes with a default
stopword list that is BSD-licensed created by the Carrot2 project. The file resides
in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.
See http://project.carrot2.org/license.html.

The SmartChineseAnalyzer source code (smartcn) was
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WordBreakTestUnicode_*.java (under modules/analysis/common/src/test/)
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The Morfologik analyzer (morfologik) includes BSD-licensed software
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(http://www.sjp.pl/slownik/en/) licenced on the terms of (inter alia)
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(http://sgjp.pl/morfeusz/)

Servlet-api.jar and javax.servlet-*.jar are under the CDDL license, the original
source code for this can be found at http://www.eclipse.org/jetty/downloads.php

==
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
==

This software includes a binary and/or source version of data from

mecab-ipadic-2.7.0-20070801

which can be obtained from

http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz

or

http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz

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1.633 aws-java-sdk-appconfigdata 1.12.199

1.633.1 Available under license :

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1.634 jctools-core 3.1.0

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1.635 systemd-libs 219-78.el7_9.7

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* /opt/cola/permits/1463018075_1667606810.503335/0/aws-java-sdk-kafka-1-12-199-sources-jar/com/amazonaws/services/kafka/model/transform/CloudWatchLogsJsonUnmarshaller.java
* /opt/cola/permits/1463018075_1667606810.503335/0/aws-java-sdk-kafka-1-12-199-sources-jar/com/amazonaws/services/kafka/model/CreateClusterResult.java
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* /opt/cola/permits/1463018075_1667606810.503335/0/aws-java-sdk-kafka-1-12-199-sources-
jar/com/amazonaws/services/kafka/model/VpcConfig.java
* /opt/cola/permits/1463018075_1667606810.503335/0/aws-java-sdk-kafka-1-12-199-sources-
jar/com/amazonaws/services/kafka/model/transform/UnauthenticatedMarshaller.java
* /opt/cola/permits/1463018075_1667606810.503335/0/aws-java-sdk-kafka-1-12-199-sources-

jar/com/amazonaws/services/kafka/model/transform/ServerlessSaslJsonUnmarshaller.java
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* /opt/cola/permits/1463018075_1667606810.503335/0/aws-java-sdk-kafka-1-12-199-sources-jar/com/amazonaws/services/kafka/model/DescribeClusterOperationResult.java
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* /opt/cola/permits/1463018075_1667606810.503335/0/aws-java-sdk-kafka-1-12-199-sources-jar/com/amazonaws/services/kafka/model/transform/TagResourceRequestMarshaller.java
* /opt/cola/permits/1463018075_1667606810.503335/0/aws-java-sdk-kafka-1-12-199-sources-jar/com/amazonaws/services/kafka/model/DescribeClusterRequest.java
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*/
/**
   * <p>
   * The version of the MSK cluster to update. Cluster versions aren't simple numbers. You can describe an MSK cluster
   * to find its version. When this update operation is successful, it generates a new cluster version.
   * </p>
   *
   * @return <p>
   *         The version of the MSK cluster to update. Cluster versions aren't simple numbers. You can describe an MSK
   *         cluster to find its version. When this update operation is successful, it generates a new cluster
   *         version.
   *         </p>
   */
```

Found in path(s):
* /opt/cola/permits/1463018075_1667606810.503335/0/aws-java-sdk-kafka-1-12-199-sources-jar/com/amazonaws/services/kafka/model/UpdateConnectivityRequest.java
* /opt/cola/permits/1463018075_1667606810.503335/0/aws-java-sdk-kafka-1-12-199-sources-jar/com/amazonaws/services/kafka/model/UpdateSecurityRequest.java
* /opt/cola/permits/1463018075_1667606810.503335/0/aws-java-sdk-kafka-1-12-199-sources-jar/com/amazonaws/services/kafka/model/UpdateMonitoringRequest.java

1.646 jetty-servlet 9.4.18.v20190429

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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*/

/** How to generate rules derived from left-recursive rules.
*  These rely on recRuleAltPredicate(),
*  recRuleArg(), recRuleSetResultAction(), recRuleSetReturnAction()
*  templates in main language.stg
*/
group LeftRecursiveRules;

recRule(ruleName, argName, primaryAlts, opAlts, setResultAction,
      userRetvals, leftRecursiveRuleRefLabels) ::=
<<
<ruleName><if(userRetvals)> returns [<userRetvals>]<endif>
  :   ( {} <primaryAlts:{alt | <alt.altText> }; separator="\n       | ">
      )
      (
        <opAlts; separator="\n       | ">
      )*
  ;
>>

recRuleAlt(alt, precOption, opPrec, pred) ::= <<
{<pred>}?\<<precOption>=<opPrec>\> <alt.altText>
>>

Found in path(s):
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/tool/templates/LeftRecursiveRules.stg
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* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/parse/ANTLRLexer.java
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jar/org/antlr/v4/parse/GrammarTreeVisitor.java
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*/
/*
This file contains the actual layout of the messages emitted by ANTLR.
The text itself is coming out of the languages/*stg files, according to the chosen locale.
This file contains the default format ANTLR uses.
*/

location(file, line, column) ::= "<file>(<line>,<column>)"

message(id, text) ::= "error <id> : <text>"

report(location, message, type) ::= "<location> : <type> <message.id> : <message.text>"

wantsSingleLineMessage() ::= "true"

Found in path(s):
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/tool/templates/messages/formats/vs2005.stg

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*/

Found in path(s):
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/Tool.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ErrorType.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/gui/PostScriptDocument.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/semantics/SemanticPipeline.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/GrammarParserInterpreter.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/gui/SystemFontMetrics.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/ListenerDispatchMethod.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_int.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/automata/LexerATNFactory.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_text.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/LL1Loop.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/QRetValueRef.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/ActionTemplate.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/RuleActionFunction.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/Choice.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/Alternative.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/OptionalBlock.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/target/Python2Target.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ast/GrammarASTWithOptions.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/LexerFile.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/BaseVisitorFile.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/RuleElement.java

* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_text.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/RetValueRef.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/ArgAction.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/target/JavaScriptTarget.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ast/RuleElementAST.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/LeftRecursiveRuleFunction.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/LL1OptionalBlockSingleAlt.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/Sync.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextRuleListGetterDecl.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/LabelElementPair.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/decl/CodeBlock.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/TestSetInline.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/SetNonLocalAttr.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/ListLabelRef.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_text.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_index.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/Grammar.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/ArgRef.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/automata/TailEpsilonRemover.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/LocalRef.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ast/PredAST.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/target/CppTarget.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ast/GrammarASTErrorNode.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/LexerGrammar.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/misc/FrequencySet.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/Lexer.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/LL1PlusBlockSingleAlt.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-

jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_stop.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ast/QuantifierAST.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ast/AltAST.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/codegen/model/OutputModelObject.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/tool/LeftRecursionCyclesMessage.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/codegen/model/decl/ContextTokenListIndexedGetterDecl.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/automata/ParserATNFactory.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ToolMessage.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/codegen/model/RuleSempredFunction.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/parse/v4ParserException.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/codegen/model/LL1Choice.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_start.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/semantics/SymbolCollector.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/tool/ANTLRToolListener.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/codegen/model/chunk/NonLocalAttrRef.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/codegen/model/VisitorFile.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/codegen/model/CodeBlockForOuterMostAlt.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/codegen/ActionTranslator.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/codegen/model/StarBlock.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/codegen/CodeGeneratorExtension.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/parse/GrammarASTAdaptor.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/codegen/OutputModelController.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/Action.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/gui/BasicFontMetrics.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/Attribute.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/codegen/model/ParserFile.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/dbg.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/codegen/CodeGenerator.java

* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/analysis/LeftRecursiveRuleTransformer.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/parse/TokenVocabParser.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/automata/ATNFactory.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/MatchSet.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextGetterDecl.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ast/RuleRefAST.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ast/StarBlockAST.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_stop.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_parser.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/ElementFrequenciesVisitor.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/decl/AltLabelStructDecl.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/gui/TreePostScriptGenerator.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ANTLRMessage.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/LexerFactory.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/semantics/RuleCollector.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/semantics/BasicSemanticChecks.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/gui/Trees.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/analysis/AnalysisPipeline.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_type.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/target/Python3Target.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/BlankOutputModelFactory.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ast/RuleAST.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/OutputFile.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/AttributeDict.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/LL1AltBlock.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextTokenGetterDecl.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/decl/StructDecl.java

* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/MatchNotSet.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/ParserFactory.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/CaptureNextToken.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextTokenListGetterDecl.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/misc/MutableInt.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/ActionText.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ast/GrammarASTVisitor.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/CodeBlockForAlt.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/decl/AttributeDecl.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/GrammarInterpreterRuleContext.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/automata/ATNVisitor.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/GrammarTransformPipeline.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/PlusBlock.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/gui/TestRig.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/target/CSharpTarget.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/parse/v3TreeGrammarException.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/parse/GrammarToken.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_start.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/LabelType.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/gui/TreeViewer.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ast/BlockAST.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/Target.java
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* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/analysis/LeftRecursiveRuleAltInfo.java
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* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/parse/ToolANTLRParser.java
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* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/DefaultOutputModelFactory.java
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* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/target/GoTarget.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/decl/RuleContextListDecl.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/ThrowNoViableAlt.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/GrammarSyntaxMessage.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/automata/ATNOptimizer.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/Rule.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextRuleGetterDecl.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/Loop.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ast/TerminalAST.java
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* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/MatchToken.java
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* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/semantics/UseDefAnalyzer.java
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* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/GrammarSemanticsMessage.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/Wildcard.java
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* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/LeftRecursiveRule.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/DOTGenerator.java
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* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/DefaultToolListener.java
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* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/target/JavaTarget.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/CodeGenPipeline.java
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* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/AddToLabelList.java
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*/

tree grammar BlockSetTransformer;
options {
 language     = Java;
 tokenVocab   = ANTLRParser;
 ASTLabelType = GrammarAST;
 output   = AST;
 filter   = true;
}

@header {
package org.antlr.v4.parse;
```

```
import org.antlr.v4.misc.Utils;
import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.List;
import java.util.Set;
import java.util.HashSet;
import java.util.ArrayList;
import org.antlr.v4.runtime.misc.IntervalSet;
}

@members {
public String currentRuleName;
public GrammarAST currentAlt;
public Grammar g;
public BlockSetTransformer(TreeNodeStream input, Grammar g) {
  this(input, new RecognizerSharedState());
  this.g = g;
}
}

topdown
  : ^(RULE (id=TOKEN_REF|id=RULE_REF) {currentRuleName=$id.text;} .+)
  | setAlt
  | ebnfBlockSet
  | blockSet
 ;

setAlt
 : {inContext("RULE BLOCK")}?
  ALT {currentAlt = $start;}
 ;

// (BLOCK (ALT (+ (BLOCK (ALT INT) (ALT ID)))))
ebnfBlockSet
@after {
 GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
 : ^(ebnfSuffix blockSet) -> ^(ebnfSuffix ^(BLOCK<BlockAST> ^(ALT<AltAST> blockSet)))
 ;

ebnfSuffix
@after {$tree = (GrammarAST)adaptor.dupNode($start);}
 : OPTIONAL
  | CLOSURE
  | POSITIVE_CLOSURE
 ;
```

```
blockSet
@init {
boolean inLexer = Grammar.isTokenName(currentRuleName);
}
@after {
 GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
 : {inContext("RULE")}? // top-level: rule block and > 1 alt
  ^(BLOCK ^(alt=ALT elementOptions? {((AltAST)$alt).altLabel==null}? setElement[inLexer]) ( ^(ALT
elementOptions? setElement[inLexer]) )+)
  -> ^(BLOCK<BlockAST>[$BLOCK.token] ^(ALT<AltAST>[$BLOCK.token,"ALT"] ^(SET[$BLOCK.token,
"SET"] setElement+)))
 | {!inContext("RULE")}? // if not rule block and > 1 alt
  ^(BLOCK ^(ALT elementOptions? setElement[inLexer]) ( ^(ALT elementOptions? setElement[inLexer]) )+)
  -> ^(SET[$BLOCK.token, "SET"] setElement+)
 ;

setElement[boolean inLexer]
@after {
 GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
 : ( ^(a=STRING_LITERAL elementOptions) {!inLexer ||
CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
  |   a=STRING_LITERAL {!inLexer || CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
  | {!inLexer}?=> ^(TOKEN_REF elementOptions)
  | {!inLexer}?=>   TOKEN_REF
  | {inLexer}?=>  ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
   {CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1 &&
    CharSupport.getCharValueFromGrammarCharLiteral($b.getText())!=-1}?
  )
 ;

elementOptions
 : ^(ELEMENT_OPTIONS elementOption*)
 ;

elementOption
 : ID
 | ^(ASSIGN id=ID v=ID)
 | ^(ASSIGN ID v=STRING_LITERAL)
 | ^(ASSIGN ID v=ACTION)
 | ^(ASSIGN ID v=INT)
 ;

Found in path(s):
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/parse/BlockSetTransformer.g
```

No license file was found, but licenses were detected in source scan.

```
/*
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*/

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using System.Text;
using System.Diagnostics;
using System.Collections.Generic;
using Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
```

```
using DFA = Antlr4.Runtime.Dfa.DFA;

<parser>
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using IParseTreeListener = Antlr4.Runtime.Tree.IParseTreeListener;
using IToken = Antlr4.Runtime.IToken;

/// \<summary>
/// This interface defines a complete listener for a parse tree produced by
/// \<see cref="<csIdentifier.(file.parserName)>"/>.
/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public interface I<file.grammarName>Listener : IParseTreeListener {
 <file.listenerNames:{lname |
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Enter a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Enter a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
void Enter<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context
context);
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Exit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Exit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
void Exit<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context
context);}; separator="\n">
```

```
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>

using Antlr4.Runtime.Misc;
using IErrorNode = Antlr4.Runtime.Tree.IErrorNode;
using ITerminalNode = Antlr4.Runtime.Tree.ITerminalNode;
using IToken = Antlr4.Runtime.IToken;
using ParserRuleContext = Antlr4.Runtime.ParserRuleContext;

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Listener"/>,
/// which can be extended to create a listener which only needs to handle a subset
/// of the available methods.
/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseListener : I<file.grammarName>Listener {
 <file.listenerNames:{lname |
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Enter a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Enter a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \<para>The default implementation does nothing.\</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void Enter<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname;
format="cap">Context context) { \}
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Exit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Exit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \<para>The default implementation does nothing.\</para>
```

```
/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void Exit<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname;
format="cap">Context context) { \}}; separator="\n">

 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
 public virtual void EnterEveryRule([NotNull] ParserRuleContext context) { }
 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
 public virtual void ExitEveryRule([NotNull] ParserRuleContext context) { }
 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
 public virtual void VisitTerminal([NotNull] ITerminalNode node) { }
 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
 public virtual void VisitErrorNode([NotNull] IErrorNode node) { }
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;

/// \<summary>
/// This interface defines a complete generic visitor for a parse tree produced
/// by \<see cref="<csIdentifier.(file.parserName)>"/>.
/// \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public interface I<file.grammarName>Visitor\<Result> : IParseTreeVisitor\<Result> {
 <file.visitorNames:{lname |
/// \<summary>
<if(file.visitorLabelRuleNames.(lname))>
/// Visit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(lname)>"/>.
<else>
/// Visit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
```

```
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
/// \<return>The visitor result.\</return>
Result Visit<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context
context);}; separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;
using ParserRuleContext = Antlr4.Runtime.ParserRuleContext;

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Visitor{Result}"/>,
/// which can be extended to create a visitor which only needs to handle a subset
/// of the available methods.
/// \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseVisitor\<Result> : AbstractParseTreeVisitor\<Result>,
I<file.grammarName>Visitor\<Result> {
 <file.visitorNames:{lname |
/// \<summary>
<if(file.visitorLabelRuleNames.(lname))>
/// Visit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(lname)>"/>.
<else>
/// Visit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \<para>
/// The default implementation returns the result of calling \<see
cref="AbstractParseTreeVisitor{Result\}.VisitChildren(IRuleNode)"/>
/// on \<paramref name="context"/>.
/// \</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
```

```
/// \<return>The visitor result.\</return>
public virtual Result Visit<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname;
format="cap">Context context) { return VisitChildren(context); \}}; separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
//------------------------------------------------------------------------------
// \<auto-generated>
//     This code was generated by a tool.
//     ANTLR Version: <ANTLRVersion>
//
//     Changes to this file may cause incorrect behavior and will be lost if
//     the code is regenerated.
// \</auto-generated>
//------------------------------------------------------------------------------

// Generated from <grammarFileName> by ANTLR <ANTLRVersion>

// Unreachable code detected
#pragma warning disable 0162
// The variable '...' is assigned but its value is never used
#pragma warning disable 0219
// Missing XML comment for publicly visible type or member '...'
#pragma warning disable 1591
// Ambiguous reference in cref attribute
#pragma warning disable 419

>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <csIdentifier.(parser.name)> : <superClass; null="Parser"> {
 protected static DFA[] decisionToDFA;
 protected static PredictionContextCache sharedContextCache = new PredictionContextCache();
 <if(parser.tokens)>
 public const int
  <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 public const int
```

```
 <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
 public static readonly string[] ruleNames = {
  <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
 };

 <vocabulary(parser.literalNames, parser.symbolicNames)>

 public override string GrammarFileName { get { return "<parser.grammarFileName>"; } }

 public override string[] RuleNames { get { return ruleNames; } }

 public override string SerializedAtn { get { return _serializedATN; } }

 static <csIdentifier.(parser.name)>() {
  decisionToDFA = new DFA[_ATN.NumberOfDecisions];
  for (int i = 0; i \< _ATN.NumberOfDecisions; i++) {
   decisionToDFA[i] = new DFA(_ATN.GetDecisionState(i), i);
  }
 }

 <namedActions.members>
 <parser:(ctor)()>
 <funcs; separator="\n">

<if(sempredFuncs)>
 public override bool Sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
  switch (ruleIndex) {
  <parser.sempredFuncs.values:{f|
case <f.ruleIndex>: return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
  }
  return true;
 }
 <sempredFuncs.values; separator="\n">
<endif>

 <atn>
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static readonly string[] _LiteralNames = {
 <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
private static readonly string[] _SymbolicNames = {
 <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
public static readonly IVocabulary DefaultVocabulary = new Vocabulary(_LiteralNames, _SymbolicNames);
```

```
[NotNull]
public override IVocabulary Vocabulary
{
 get
 {
  return DefaultVocabulary;
 }
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
public override void Action(RuleContext _localctx, int ruleIndex, int actionIndex) {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex> : <f.name>_action(<if(!recog.modes)>(<f.ctxType>)<endif>_localctx, actionIndex); break;};
separator="\n">
 }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
public override bool Sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
 switch (ruleIndex) {
 <recog.sempredFuncs.values:{f|
case <f.ruleIndex> : return <f.name>_sempred(<if(!recog.modes)>(<f.ctxType>)<endif>_localctx, predIndex);};
separator="\n">
 }
 return true;
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(parser) ::= <<
public <csIdentifier.(parser.name)>(ITokenStream input)
 : base(input)
{
 Interpreter = new ParserATNSimulator(this, _ATN, decisionToDFA, sharedContextCache);
}
>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
 switch (actionIndex) {
```

```
 <actions:{index|
case <index>: <actions.(index)> break;}; separator="\n">
 }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private bool <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
 switch (predIndex) {
 <actions:{index|
case <index>: return <actions.(index)>;}; separator="\n">
 }
 return true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<if(ruleCtx)>
<ruleCtx>
<endif>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

[RuleVersion(<namedActions.version; null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)>(<args; separator=", ">) {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<csIdentifier.(a.name)>}>);
 EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 <if(exceptions)>
 <exceptions; separator="\n">
 <else>
 catch (RecognitionException re) {
  _localctx.exception = re;
```

```
 ErrorHandler.ReportError(this, re);
 ErrorHandler.Recover(this, re);
 }
 <endif>
 finally {
  <finallyAction>
  ExitRule();
 }
 return _localctx;
}
>>

LeftFactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::=
<<

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)>(<args; separator=", ">) {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<csIdentifier.(a.name)>}>);
 EnterLeftFactoredRule(_localctx, <currentRule.startState>, RULE_<currentRule.variantOf>);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
 }
 finally {
  <finallyAction>
  ExitRule();
 }
 return _localctx;
}
>>

// This behaves similar to RuleFunction (enterRule is called, and no adjustments
// are made to the parse tree), but since it's still a variant no context class
// needs to be generated.
LeftUnfactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::=
<<
```

```
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)>(<args; separator=", ">) {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<csIdentifier.(a.name)>}>);
 EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.variantOf>);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
 }
 finally {
  <finallyAction>
  ExitRule();
 }
 return _localctx;
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

[RuleVersion(<namedActions.version; null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)>(<args; separator=", ">) {
 return <csIdentifier.(currentRule.name)>(0<currentRule.args:{a | , <csIdentifier.(a.name)>}>);
}

private <currentRule.ctxType> <csIdentifier.(currentRule.name)>(int _p<args:{a | , <a>}>) {
 ParserRuleContext _parentctx = Context;
 int _parentState = State;
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, _parentState<currentRule.args:{a | ,
<csIdentifier.(a.name)>}>);
 <currentRule.ctxType> _prevctx = _localctx;
```

```
 int _startState = <currentRule.startState>;
 EnterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
 }
 finally {
  <finallyAction>
  UnrollRecursionContexts(_parentctx);
 }
 return _localctx;
}
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
EnterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
{
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
}
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<if(choice.label)><labelref(choice.label)> = TokenStream.LT(1);<endif>
<preamble; separator="\n">
switch (TokenStream.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
 <alt>
```

```
 break;}; separator="\n">
default:
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
switch (TokenStream.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
 <alt>
 break;}; separator="\n">
default:
 <error>
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<preamble; separator="\n">
if (<expr>) {
 <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<preamble; separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 State = <choice.loopBackStateNumber>;
 ErrorHandler.Sync(this);
 <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision !>
ErrorHandler.Sync(this);
<preamble; separator="\n">
do {
 <alts; separator="\n">
 State = <choice.stateNumber>;<! loopback/exit decision !>
 ErrorHandler.Sync(this);
```

```
 <iteration>
} while ( <loopExpr> );
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<if(choice.label)><labelref(choice.label)> = TokenStream.LT(1);<endif>
<preamble; separator="\n">
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
<alts:{alt |
case <i>:
 <alt>
 break;}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
_alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.INVALID_ALT_NUMBER ) {
 if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
  <iteration>
  <alts> <! should only be one !>
 }
 State = <choice.loopBackStateNumber>;
 ErrorHandler.Sync(this);
 _alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
}
>>

PlusBlock(choice, alts, error) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision !>
ErrorHandler.Sync(this);
```

```
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
 default:
  <error>
 }
 State = <choice.loopBackStateNumber>;<! loopback/exit decision !>
 ErrorHandler.Sync(this);
 _alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
} while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.INVALID_ALT_NUMBER );
>>

Sync(s) ::= "Sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw new NoViableAltException(this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \<\< <offsetShift(s.varName, bits.shift)>) &
(<bits.ttypes:{ttype | (1L \<\< <offsetShift(tokenType.(ttype), bits.shift)>)}; separator=" | ">)) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>==<tokenType.(ttype)>}; separator=" || ">
```

```
%>

cases(ttypes) ::= <<
<ttypes:{t | case <tokenType.(t)>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
State = <r.stateNumber>; <if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif><csIdentifier.(r.name)>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><arg
ExprsChunks>);
>>

MatchToken(m) ::= <<
State = <m.stateNumber>; <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>Match(<tokenType.(m.name)>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
State = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }>TokenStream.LT(1);<endif>
<capture>
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>) ) {
 <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>ErrorHandler.RecoverInline(this);
}
else {
 ErrorHandler.ReportMatch(this);
   Consume();
}
>>

Wildcard(w) ::= <<
State = <w.stateNumber>;
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>MatchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
State = <p.stateNumber>;
if (!(<chunks>)) throw new FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
```

```
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "Skip();"
LexerMoreCommand()  ::= "More();"
LexerPopModeCommand() ::= "PopMode();"

LexerTypeCommand(arg, grammar)      ::= "_type = <tokenType.(arg)>;"
LexerChannelCommand(arg, grammar)   ::= "_channel = <channelName.(arg)>;"
LexerModeCommand(arg, grammar)      ::= "_mode = <modeName.(arg)>;"
LexerPushModeCommand(arg, grammar)  ::= "PushMode(<modeName.(arg)>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
LocalRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
RetValueRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<csIdentifier.(a.name)>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<csIdentifier.(tokenType.(t.name))>"
LabelRef(t) ::= "<ctx(t)>.<csIdentifier.(t.name)>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(csIdentifier.(t.name))>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<csIdentifier.(s.name)> = <rhsChunks>;"

TokenLabelType() ::= "<file.TokenLabelType; null={IToken}>"
InputSymbolType() ::= "<file.InputSymbolType; null={IToken}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Text:null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Type:0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Line:0)"
TokenPropertyRef_pos(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.CharPositionInLine:0)"
TokenPropertyRef_channel(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Channel:0)"
TokenPropertyRef_index(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.TokenIndex:0)"
TokenPropertyRef_int(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?int.Parse(<ctx(t)>.<tokenType.(t.label)>.Text):0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Start):null)"
RulePropertyRef_stop(r)  ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Stop):null)"
```

```
RulePropertyRef_text(r)  ::=
"(<ctx(r)>.<r.label>!=null?TokenStream.GetText(<ctx(r)>.<r.label>.Start,<ctx(r)>.<r.label>.Stop):null)"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.Start"
ThisRulePropertyRef_stop(r)  ::= "_localctx.Stop"
ThisRulePropertyRef_text(r)  ::= "TokenStream.GetText(_localctx.Start, TokenStream.LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "_localctx"
ThisRulePropertyRef_parser(r)  ::= "this"

NonLocalAttrRef(s)   ::= <%((<s.ruleName;
format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<csIdentifier.(s.name)>%>
SetNonLocalAttr(s, rhsChunks)   ::=
 <%((<s.ruleName; format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<csIdentifier.(s.name)> =
<rhsChunks>;%>

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.Add(<labelref(a.label)>);"

TokenDecl(t) ::= "<TokenLabelType()> <csIdentifier.(tokenType.(t.name))>"
TokenTypeDecl(t) ::= "int <csIdentifier.(tokenType.(t.name))>;"
TokenListDecl(t) ::= "IList\<IToken> <csIdentifier.(tokenType.(t.name))> = new List\<IToken>()"
RuleContextDecl(r) ::= "<r.ctxName> <csIdentifier.(r.name)>"
RuleContextListDecl(rdecl) ::= "IList\<<rdecl.ctxName>> <csIdentifier.(rdecl.name)> = new
List\<<rdecl.ctxName>>()"

contextGetterCollection(elementType) ::= <%
<elementType>[]
%>

ContextTokenGetterDecl(t)      ::=
   "public ITerminalNode <csIdentifier.(tokenType.(t.name))>() { return
GetToken(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>, 0); }"
ContextTokenListGetterDecl(t)  ::= <<
public <contextGetterCollection("ITerminalNode")> <csIdentifier.(tokenType.(t.name))>() { return
GetTokens(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>); }
>>
ContextTokenListIndexedGetterDecl(t)  ::= <<
public ITerminalNode <csIdentifier.(tokenType.(t.name))>(int i) {
 return GetToken(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>, i);
}
>>
ContextRuleGetterDecl(r)       ::= <<
public <r.ctxName> <csIdentifier.(r.name)>() {
 return GetRuleContext\<<r.ctxName>\>(0);
}
>>
ContextRuleListGetterDecl(r)   ::= <<
```

```
public <contextGetterCollection({<r.ctxName>})> <csIdentifier.(r.name)>() {
 return GetRuleContexts\<<r.ctxName>\>();
}
>>
ContextRuleListIndexedGetterDecl(r)  ::= <<
public <r.ctxName> <csIdentifier.(r.name)>(int i) {
 return GetRuleContext\<<r.ctxName>\>(i);
}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenType.(tokenName)>"
ImplicitRuleLabel(ruleName)  ::= "_<ruleName>"
ImplicitSetLabel(id)   ::= "_tset<id>"
ListLabelName(label)   ::= "_<label>"

CaptureNextToken(d) ::= "<d.varName> = TokenStream.LT(1);"
CaptureNextTokenType(d) ::= "<d.varName> = TokenStream.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,
        superClass={ParserRuleContext}) ::= <<
public partial class <struct.name> :
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>, <interfaces;
separator=", "><endif> {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 <if(ctorAttrs)>public <struct.name>(ParserRuleContext parent, int invokingState) : base(parent, invokingState) {
}<endif>
 public <struct.name>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>}>)
  : base(parent, invokingState)
 {
  <struct.ctorAttrs:{a | this.<csIdentifier.(a.name)> = <csIdentifier.(a.name)>;}; separator="\n">
 }
 public override int RuleIndex { get { return RULE_<struct.derivedFromName>; } }
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 public <struct.name>() { }
 public virtual void CopyFrom(<struct.name> context) {
  base.CopyFrom(context);
  <struct.attrs:{a | this.<csIdentifier.(a.name)> = context.<csIdentifier.(a.name)>;}; separator="\n">
 }
<endif>
 <dispatchMethods; separator="\n">
```

```
 <extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
public partial class <struct.name> : <currentRule.name; format="cap">Context {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 public <struct.name>(<currentRule.name; format="cap">Context context) { CopyFrom(context); }
 <dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
public override void <if(method.isEnter)>Enter<else>Exit<endif>Rule(IParseTreeListener listener) {
 I<parser.grammarName>Listener typedListener = listener as I<parser.grammarName>Listener;
 if (typedListener != null) typedListener.<if(method.isEnter)>Enter<else>Exit<endif><struct.derivedFromName;
format="cap">(this);
}
>>

VisitorDispatchMethod(method) ::= <<
public override TResult Accept\<TResult>(IParseTreeVisitor\<TResult> visitor) {
 I<parser.grammarName>Visitor\<TResult> typedVisitor = visitor as I<parser.grammarName>Visitor\<TResult>;
 if (typedVisitor != null) return typedVisitor.Visit<struct.derivedFromName; format="cap">(this);
 else return visitor.VisitChildren(this);
}
>>

AttributeDecl(d) ::= "<d.type> <csIdentifier.(d.name)><if(d.initValue)> = <d.initValue><endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)><typedContext(x.ctx)>.<endif><csIdentifier.(x.name)>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "<typedContext(actionChunk.ctx)>"

// only casts _localctx to the type when the cast isn't redundant (i.e. to a sub-context for a labeled alt)
typedContext(ctx) ::= "<if(ctx.provideCopyFrom)>((<ctx.name>)_localctx)<else>_localctx<endif>"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "Precpred(Context, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>;"
recRuleSetStopToken()                 ::= "Context.Stop = TokenStream.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = new <ctxName>Context(_parentctx, _parentState);
<if(label)>
```

```
<if(isListLabel)>
_localctx.<label>.Add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>
PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
_localctx = new <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
_parentState));
<if(label)>
<if(isListLabel)>
((<currentAltLabel; format="cap">Context)_localctx).<label>.Add(_prevctx);
<else>
((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;
<endif>
<endif>
PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
_localctx = new <ctxName>Context(_localctx);
Context = _localctx;
_prevctx = _localctx;
>>

recRuleSetPrevCtx() ::= <<
if ( ParseListeners!=null )
 TriggerExitRuleEvent();
_prevctx = _localctx;
>>


LexerFile(file, lexer, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using System.Text;
using Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using DFA = Antlr4.Runtime.Dfa.DFA;
```

```
<lexer>
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <csIdentifier.(lexer.name)> : <superClass; null="Lexer"> {
 protected static DFA[] decisionToDFA;
 protected static PredictionContextCache sharedContextCache = new PredictionContextCache();
 public const int
  <lexer.tokens:{k | <tokenType.(k)>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
 <if(lexer.channels)>
 public const int
  <lexer.channels:{k | <csIdentifier.(k)>=<lexer.channels.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <rest(lexer.modes):{m| public const int <modeName.(m)> = <i>;}; separator="\n">
 public static string[] modeNames = {
  <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
 };

 public static readonly string[] ruleNames = {
  <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
 };

 <namedActions.members>

 public <csIdentifier.(lexer.name)>(ICharStream input)
  : base(input)
 {
  Interpreter = new LexerATNSimulator(this, _ATN, decisionToDFA, sharedContextCache);
 }

 <vocabulary(lexer.literalNames, lexer.symbolicNames)>

 public override string GrammarFileName { get { return "<lexer.grammarFileName>"; } }

 public override string[] RuleNames { get { return ruleNames; } }

 public override string[] ModeNames { get { return modeNames; } }

 public override string SerializedAtn { get { return _serializedATN; } }

 static <csIdentifier.(lexer.name)>() {
  decisionToDFA = new DFA[_ATN.NumberOfDecisions];
  for (int i = 0; i \< _ATN.NumberOfDecisions; i++) {
```

```
   decisionToDFA[i] = new DFA(_ATN.GetDecisionState(i), i);
  }
 }
 <dumpActions(lexer, "", actionFuncs, sempredFuncs)>
 <atn>
}
>>


SerializedATN(model) ::= <<
private static string _serializedATN = _serializeATN();
private static string _serializeATN()
{
   StringBuilder sb = new StringBuilder();
   sb.Append("<model.serialized; wrap={");<\n><\t>sb.Append("}>");
   return sb.ToString();
}

public static readonly ATN _ATN =
 new ATNDeserializer().Deserialize(_serializedATN.ToCharArray());


>>

initValue(typeName) ::= <<
default(<typeName>)
>>

codeFileExtension() ::= ".cs"

modeName ::= [
 "DEFAULT_MODE" : "DefaultMode",
 default : key
]

channelName ::= [
 "HIDDEN" : "Hidden",
 "DEFAULT_TOKEN_CHANNEL" : "DefaultTokenChannel",
 default : key
]

tokenType ::= [
 "EOF" : "Eof",
 default : key
]

csIdentifier ::= [
 "abstract" : "@abstract",
```

"as" : "@as",
"base" : "@base",
"bool" : "@bool",
"break" : "@break",
"byte" : "@byte",
"case" : "@case",
"catch" : "@catch",
"char" : "@char",
"checked" : "@checked",
"class" : "@class",
"const" : "@const",
"continue" : "@continue",
"decimal" : "@decimal",
"default" : "@default",
"delegate" : "@delegate",
"do" : "@do",
"double" : "@double",
"else" : "@else",
"enum" : "@enum",
"event" : "@event",
"explicit" : "@explicit",
"extern" : "@extern",
"false" : "@false",
"finally" : "@finally",
"fixed" : "@fixed",
"float" : "@float",
"for" : "@for",
"foreach" : "@foreach",
"goto" : "@goto",
"if" : "@if",
"implicit" : "@implicit",
"in" : "@in",
"int" : "@int",
"interface" : "@interface",
"internal" : "@internal",
"is" : "@is",
"lock" : "@lock",
"long" : "@long",
"namespace" : "@namespace",
"new" : "@new",
"null" : "@null",
"object" : "@object",
"operator" : "@operator",
"out" : "@out",
"override" : "@override",
"params" : "@params",
"private" : "@private",
"protected" : "@protected",

```
 "public" : "@public",
 "readonly" : "@readonly",
 "ref" : "@ref",
 "return" : "@return",
 "sbyte" : "@sbyte",
 "sealed" : "@sealed",
 "short" : "@short",
 "sizeof" : "@sizeof",
 "stackalloc" : "@stackalloc",
 "static" : "@static",
 "string" : "@string",
 "struct" : "@struct",
 "switch" : "@switch",
 "this" : "@this",
 "throw" : "@throw",
 "true" : "@true",
 "try" : "@try",
 "typeof" : "@typeof",
 "uint" : "@uint",
 "ulong" : "@ulong",
 "unchecked" : "@unchecked",
 "unsafe" : "@unsafe",
 "ushort" : "@ushort",
 "using" : "@using",
 "virtual" : "@virtual",
 "void" : "@void",
 "volatile" : "@volatile",
 "while" : "@while",
 default : key
]
```

Found in path(s):
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/templates/codegen/CSharp/CSharp.stg
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*/

// File      : A3Lexer.g
// Author    : Jim Idle (jimi@temporal-wave.com)
// Copyright : Free BSD - See @header clause below
// Version   : First implemented as part of ANTLR 3.2 this is the self
//             hosting ANTLR 3 Lexer.
//
// Description
// -----------
// This is the definitive lexer grammar for parsing ANTLR V3.x.x grammars. All other
// gramnmars are derived from this grammar via source code control integration (perforce)
// or by the gdiff tool.
//
```

```
// This grammar and its associated grmmmars A3Parser.g and A3Walker.g exhibit the following
// traits, which are recommended for all production quality grammars:
//
// 1) They are separate grammars, not composite grammars;
// 2) They implement all supporting methods in a superclass (at least this is recommended
//    for language targets that support inheritence;
// 3) All errors are pushed as far down the parsing chain as possible, which means
//    that the lexer tries to defer error reporting to the parser, and the parser
//    tries to defer error reporting to a semantic phase consisting of a single
//    walk of the AST. The reason for this is that the error messages produced
//    from later phases of the parse will generally have better context and so
//    be more useful to the end user. Consider the message: "Syntax error at 'options'"
//    vs: "You cannot specify two options{} sections in a single grammar file".
// 4) The lexer is 'programmed' to catch common mistakes such as unterminated literals
//    and report them specifically and not just issue confusing lexer mismatch errors.
//

/** Read in an ANTLR grammar and build an AST.  Try not to do
*  any actions, just build the tree.
*
*  The phases are:
*
*  A3Lexer.g (this file)
*           A3Parser.g
*           A3Verify.g (derived from A3Walker.g)
*  assign.types.g
*  define.g
*  buildnfa.g
*  antlr.print.g (optional)
*  codegen.g
*
*  Terence Parr
*  University of San Francisco
*  2005
*  Jim Idle (this v3 grammar)
*  Temporal Wave LLC
*  2009
*/
lexer grammar ANTLRLexer;

// ============================================================================
// Note that while this grammar does not care about order of constructs
// that don't really matter, such as options before @header etc, it must first
// be parsed by the original v2 parser, before it replaces it. That parser does
// care about order of structures. Hence we are constrained by the v2 parser
// for at least the first bootstrap release that causes this parser to replace
// the v2 version.
// ============================================================================
```

```
// -------
// Options
//
// V3 option directives to tell the tool what we are asking of it for this
// grammar.
//
options {

 // Target language is Java, which is the default but being specific
 // here as this grammar is also meant as a good example grammar for
 // for users.
 //
 language      = Java;

 // The super class that this lexer should expect to inherit from, and
 // which contains any and all support routines for the lexer. This is
 // commented out in this baseline (definitive or normative grammar)
 // - see the ANTLR tool implementation for hints on how to use the super
 //   class
 //
 //superclass    = AbstractA3Lexer;
}

tokens { SEMPRED; TOKEN_REF; RULE_REF; LEXER_CHAR_SET; ARG_ACTION; }

// Include the copyright in this source and also the generated source
//
@lexer::header {
/*
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THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
}


@members {
 public static final int COMMENTS_CHANNEL = 2;

   public CommonTokenStream tokens; // track stream we push to; need for context info
   public boolean isLexerRule = false;

 public void grammarError(ErrorType etype, org.antlr.runtime.Token token, Object... args) { }

 /** scan backwards from current point in this.tokens list
  *  looking for the start of the rule or subrule.
  *  Return token or null if for some reason we can't find the start.
  */
 public Token getRuleOrSubruleStartToken() {
     if ( tokens==null ) return null;
  int i = tokens.index();
       int n = tokens.size();
       if ( i>=n ) i = n-1; // seems index == n as we lex
  while ( i>=0 && i<n) {
   int ttype = tokens.get(i).getType();
   if ( ttype == LPAREN || ttype == TOKEN_REF || ttype == RULE_REF ) {
    return tokens.get(i);
   }
   i--;
  }
  return null;
 }
}

// --------
// Comments
//
// ANTLR comments can be multi or single line and we don't care
// which particularly. However we also accept Javadoc style comments
// of the form: /** ... */ and we do take care to distinguish those
// from ordinary multi-line comments
```

```
// Note how we guide the lexical PATH because we want to issue a decriptive
// error message in case of a standalone '/' character, which makes no
// sense in ANTLR source code. We alo trap unterminated multi-line comments
//
fragment DOC_COMMENT : ;
COMMENT
@init {

 // Record the start line and offsets as if we need to report an
 // unterminated comment, then we want to show the start of the comment
 // we think is broken, not the end, where people will have to try and work
 // it out themselves.
 //
 int startLine = $line;
 int offset    = getCharPositionInLine();
}
  : // Eat the first character only, then see if we have a comment
    // or something silly.
    //
    '/'  // Comment introducer

    (
       // Single line comment, possibly with embedded src/line directives
       // in a similar style to the C pre-processor, allowing generated
       // code to refer the programmer back to the original source code
       // in case of error.
       //
       '/'
         (
            (' $ANTLR')=> ' $ANTLR' SRC
          | ~(NLCHARS)*
         )

      | // Multi-line comment, which may be a documentation comment
        // if it starts /** (note that we protect against accidentaly
        // recognizing a comment /**/ as a documentation comment
        //
        '*' (
             { input.LA(2) != '/'}?=> '*' { $type = DOC_COMMENT; }
           | { true }?=>  // Required to cover all alts with predicates
            )

           // Should we support embedded multiline comments here?
           //
           (
              // Pick out end of multiline comment and exit the loop
              // if we find it.
              //
```

```
            {    !(input.LA(1) == '*' && input.LA(2) == '/') }?

              // Anything else other than the non-greedy match of
              // the comment close sequence
              //
              .
          )*
        (
            // Look for the comment terminator, but if it is accidentally
            // unterminated, then we will hit EOF, which will trigger the
            // epsilon alt and hence we can issue an error message relative
            // to the start of the unterminated multi-line comment
            //
            '*/'

          | // Unterminated comment!
            //
            {
              // ErrorManager.msg(Msg.UNTERMINATED_DOC_COMMENT, startLine, offset, $pos, startLine,
offset, $pos, (Object)null);
            }
         )

      | // There was nothing that made sense following the opening '/' and so
        // we issue an error regarding the malformed comment
        //
        {
          // TODO: Insert error message relative to comment start
          //
        }
    )
    {
     // We do not wish to pass the comments in to the parser. If you are
     // writing a formatter then you will want to preserve the comments off
     // channel, but could just skip and save token space if not.
     //
     $channel=COMMENTS_CHANNEL;
    }
  ;

ARG_OR_CHARSET
options {k=1;}
  :  {isLexerRule}?=> LEXER_CHAR_SET {$type=LEXER_CHAR_SET;}
  |  {!isLexerRule}?=> ARG_ACTION
     {
     $type=ARG_ACTION;
     // Set the token text to our gathered string minus outer [ ]
     String t = $text;
```

```
        t = t.substring(1,t.length()-1);
        setText(t);
        }
    ;

fragment
LEXER_CHAR_SET
 : '['
  ( '\\' ~('\r'|'\n')
  | ~('\r'|'\n'|'\\'|']')
  )*
  ']'
 ;

// ----------
// Argument specs
//
// Certain argument lists, such as those specifying call parameters
// to a rule invocation, or input parameters to a rule specification
// are contained within square brackets. In the lexer we consume them
// all at once and sort them out later in the grammar analysis.
//
fragment
ARG_ACTION
 : '['
        (
            ARG_ACTION

          | ('"')=>ACTION_STRING_LITERAL

          | ('\'')=>ACTION_CHAR_LITERAL

          | ~('['|']')
        )*

      ']'
 ;

// -------
// Actions
//
// Other than making sure to distinguish between { and } embedded
// within what we have assumed to be literals in the action code, the
// job of the lexer is merely to gather the code within the action
// (delimited by {}) and pass it to the parser as a single token.
// We know that this token will be asked for its text somewhere
// in the upcoming parse, so setting the text here to exclude
// the delimiting {} is no additional overhead.
```

```
//
ACTION
 : NESTED_ACTION
  ( '?' {$type = SEMPRED;}
   ( (WSNLCHARS* '=>') => WSNLCHARS* '=>' // v3 gated sempred
    {
    Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
    t.setLine(state.tokenStartLine);
    t.setText(state.text);
    t.setCharPositionInLine(state.tokenStartCharPositionInLine);
    grammarError(ErrorType.V3_GATED_SEMPRED, t);
    }
   )?
  )?
 ;

// ----------------
// Action structure
//
// Many language targets use {} as block delimiters and so we
// must recursively match {} delimited blocks to balance the
// braces. Additionally, we must make some assumptions about
// literal string representation in the target language. We assume
// that they are delimited by ' or " and so consume these
// in their own alts so as not to inadvertantly match {}.
// This rule calls itself on matching a {
//
fragment
NESTED_ACTION
@init {

 // Record the start line and offsets as if we need to report an
 // unterminated block, then we want to show the start of the comment
 // we think is broken, not the end, where people will have to try and work
 // it out themselves.
 //
 int startLine = getLine();
 int offset    = getCharPositionInLine();
}

   : // Action and other blocks start with opening {
     //
   '{'
     (
     // And now we can match one of a number of embedded
     // elements within the action until we find a
     // } that balances the opening {. If we do not find
     // the balanced } then we will hit EOF and can issue
```

```
    // an error message about the brace that we belive to
    // be mismatched. This won't be foolproof but we will
    // be able to at least report an error against the
    // opening brace that we feel is in error and this will
    // guide the user to the correction as best we can.
    //


      // An embedded {} block
     //
     NESTED_ACTION

     | // What appears to be a literal
       //
       ACTION_CHAR_LITERAL

     | // We have assumed that the target language has C/Java
       // type comments.
       //
       COMMENT

     | // What appears to be a literal
       //
       ACTION_STRING_LITERAL

    | // What appears to be an escape sequence
      //
      ACTION_ESC

    | // Some other single character that is not
      // handled above
      //
      ~('\\'|'"'|'\''|'/'|'{'|'}')

    )*

(
    // Correctly balanced closing brace
    //
    '}'

  | // Looks like have an imblanced {} block, report
    // with respect to the opening brace.
    //
    {
       // TODO: Report imbalanced {}
       System.out.println("Block starting  at line " + startLine + " offset " + (offset+1) + " contains imbalanced {} or
is missing a }");
```

```
    }
)
 ;


// Keywords
// --------
// keywords used to specify ANTLR v3 grammars. Keywords may not be used as
// labels for rules or in any other context where they would be ambiguous
// with the keyword vs some other identifier
// OPTIONS, TOKENS, and CHANNELS must also consume the opening brace that captures
// their option block, as this is the easiest way to parse it separate
// to an ACTION block, despite it using the same {} delimiters.
//
OPTIONS      : 'options'  WSNLCHARS* '{'  ;
TOKENS_SPEC  : 'tokens'   WSNLCHARS* '{'  ;
CHANNELS     : 'channels' WSNLCHARS* '{'  ;

IMPORT       : 'import'              ;
FRAGMENT     : 'fragment'            ;
LEXER        : 'lexer'               ;
PARSER       : 'parser'              ;
GRAMMAR      : 'grammar'             ;
TREE_GRAMMAR : 'tree' WSNLCHARS* 'grammar' ;
PROTECTED    : 'protected'           ;
PUBLIC       : 'public'              ;
PRIVATE      : 'private'             ;
RETURNS      : 'returns'             ;
LOCALS       : 'locals'              ;
THROWS       : 'throws'              ;
CATCH        : 'catch'               ;
FINALLY      : 'finally'             ;
MODE         : 'mode'                ;

// -----------
// Punctuation
//
// Character sequences used as separators, delimters, operators, etc
//
COLON        : ':'
               {
               // scan backwards, looking for a RULE_REF or TOKEN_REF.
               // which would indicate the start of a rule definition.
               // If we see a LPAREN, then it's the start of the subrule.
               // this.tokens is the token string we are pushing into, so
               // just loop backwards looking for a rule definition. Then
               // we set isLexerRule.
               Token t = getRuleOrSubruleStartToken();
```

```
            if ( t!=null ) {
                if ( t.getType()==RULE_REF ) isLexerRule = false;
                else if ( t.getType()==TOKEN_REF ) isLexerRule = true;
                // else must be subrule; don't alter context
            }
            }
          ;
COLONCOLON   : '::'                ;
COMMA        : ','                 ;
SEMI         : ';'                 ;
LPAREN       : '('                 ;
RPAREN       : ')'                 ;
RARROW       : '->'                ;
LT           : '<'                 ;
GT           : '>'                 ;
ASSIGN       : '='                 ;
QUESTION     : '?'                 ;
SYNPRED      : '=>'
     {
      Token t = new CommonToken(input, state.type, state.channel,
                        state.tokenStartCharIndex, getCharIndex()-1);
   t.setLine(state.tokenStartLine);
   t.setText(state.text);
   t.setCharPositionInLine(state.tokenStartCharPositionInLine);
   grammarError(ErrorType.V3_SYNPRED, t);
           $channel=HIDDEN;
   }
         ;
STAR         : '*'                 ;
PLUS         : '+'                 ;
PLUS_ASSIGN  : '+='                ;
OR           : '|'                 ;
DOLLAR       : '$'                 ;
DOT      : '.'                 ; // can be WILDCARD or DOT in qid or imported rule ref
RANGE        : '..'                ;
AT           : '@'                 ;
POUND        : '#'                 ;
NOT          : '~'                 ;
RBRACE       : '}'                 ;

/** Allow unicode rule/token names */
ID   : a=NameStartChar NameChar*
   {
   if ( Grammar.isTokenName($a.text) ) $type = TOKEN_REF;
   else $type = RULE_REF;
   }
  ;
```

```
fragment
NameChar    :   NameStartChar
        |   '0'..'9'
        |   '_'
        |   '\u00B7'
        |   '\u0300'..'\u036F'
        |   '\u203F'..'\u2040'
        ;

fragment
NameStartChar
        :   'A'..'Z' | 'a'..'z'
        |   '\u00C0'..'\u00D6'
        |   '\u00D8'..'\u00F6'
        |   '\u00F8'..'\u02FF'
        |   '\u0370'..'\u037D'
        |   '\u037F'..'\u1FFF'
        |   '\u200C'..'\u200D'
        |   '\u2070'..'\u218F'
        |   '\u2C00'..'\u2FEF'
        |   '\u3001'..'\uD7FF'
        |   '\uF900'..'\uFDCF'
        |   '\uFDF0'..'\uFEFE'
        |   '\uFF00'..'\uFFFD'
        ; // ignores | ['\u10000-'\uEFFFF] ;

// ----------------------------
// Literals embedded in actions
//
// Note that we have made the assumption that the language used within
// actions uses the fairly standard '' and ' delimiters for literals and
// that within these literals, characters are escaped using the \ character.
// There are some languages which do not conform to this in all cases, such
// as by using /string/ and so on. We will have to deal with such cases if
// if they come up in targets.
//

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal characters. Within these, we do
// not want to inadvertantly match things like '}' and so we eat them
// specifically. While this rule is called CHAR it allows for the fact that
// some languages may use/allow ' as the string delimiter.
//
fragment
ACTION_CHAR_LITERAL
 : '\'' (('\\')=>ACTION_ESC | ~'\'' )* '\''
 ;
```

```
// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal strings. Within these, we do
// not want to inadvertantly match things like '}' and so we eat them
// specifically.
//
fragment
ACTION_STRING_LITERAL
 : '"' (('\\')=>ACTION_ESC | ~'"')* '"'
 ;

// Within literal strings and characters that are not part of the ANTLR
// syntax, we must allow for escaped character sequences so that we do not
// inadvertantly recognize the end of a string or character when the terminating
// delimiter has been esacped.
//
fragment
ACTION_ESC
 : '\\' .
 ;

// -------
// Integer
//
// Obviously (I hope) match an aribtrary long sequence of digits.
//
INT : ('0'..'9')+
   ;

// -----------
// Source spec
//
// A fragment rule for picking up information about an origrinating
// file from which the grammar we are parsing has been generated. This allows
// ANTLR to report errors against the originating file and not the generated
// file.
//
fragment
SRC : 'src' WSCHARS+ file=ACTION_STRING_LITERAL WSCHARS+ line=INT
    {
      // TODO: Add target specific code to change the source file name and current line number
      //
    }
  ;

// --------------
// Literal string
//
// ANTLR makes no disticintion between a single character literal and a
```

```
// multi-character string. All literals are single quote delimited and
// may contain unicode escape sequences of the form \uxxxx, where x
// is a valid hexadecimal number (as per Java basically).
STRING_LITERAL
  :  '\'' ( ( ESC_SEQ | ~('\\'|'\''|'\r'|'\n') ) )*
     (    '\''
     |    // Unterminated string literal
          {
          Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
          t.setLine(state.tokenStartLine);
          t.setText(state.text);
          t.setCharPositionInLine(state.tokenStartCharPositionInLine);
          grammarError(ErrorType.UNTERMINATED_STRING_LITERAL, t);
          }
     )
  ;

// A valid hex digit specification
//
fragment
HEX_DIGIT : ('0'..'9'|'a'..'f'|'A'..'F') ;

// Any kind of escaped character that we can embed within ANTLR
// literal strings.
//
fragment
ESC_SEQ
  : '\\'
     (
          // The standard escaped character set such as tab, newline,
          // etc.
          //
     'b'|'t'|'n'|'f'|'r'|'\"'|'\''|'\\'

      | // A Java style Unicode escape sequence
        //
        UNICODE_ESC

      | // An illegal escape seqeunce
        //
        {
            Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-1, getCharIndex());
            t.setText(t.getText());
            t.setLine(input.getLine());
            t.setCharPositionInLine(input.getCharPositionInLine()-1);
            grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t);
        }
     )
```

```
  ;

fragment
UNICODE_ESC

@init {

 // Flag to tell us whether we have a valid number of
 // hex digits in the escape sequence
 //
 int hCount = 0;
}
  :   'u' // Leadin for unicode escape sequence

      // We now require 4 hex digits. Note though
      // that we accept any number of characters
      // and issue an error if we do not get 4. We cannot
      // use an inifinite count such as + because this
      // might consume too many, so we lay out the lexical
      // options and issue an error at the invalid paths.
      //
    (
      (
        HEX_DIGIT  { hCount++; }
         (
            HEX_DIGIT  { hCount++; }
           (
              HEX_DIGIT  { hCount++; }
              (
                 // Four valid hex digits, we are good
                 //
                 HEX_DIGIT { hCount++; }

               | // Three valid digits
              )

            | // Two valid digits
           )

         | // One valid digit
       )
        )
      | // No valid hex digits at all
    )

    // Now check the digit count and issue an error if we need to
    //
    {
```

```
    if (hCount != 4) {
            Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-3-hCount, getCharIndex()-
1);
            t.setText(t.getText());
            t.setLine(input.getLine());
            t.setCharPositionInLine(input.getCharPositionInLine()-hCount-2);
            grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t);
    }
   }
  ;

// ----------
// Whitespace
//
// Characters and character constructs that are of no import
// to the parser and are used to make the grammar easier to read
// for humans.
//
WS
  : (
     ' '
      | '\t'
      | '\r'
      | '\n'
      | '\f'
    )+
    {$channel=HIDDEN;}
  ;

// A fragment rule for use in recognizing end of line in
// rules like COMMENT.
//
fragment
NLCHARS
  : '\n' | '\r'
  ;

// A fragment rule for recognizing traditional whitespace
// characters within lexer rules.
//
fragment
WSCHARS
  : ' ' | '\t' | '\f'
  ;

// A fragment rule for recognizing both traditional whitespace and
// end of line markers, when we don't care to distinguish but don't
// want any action code going on.
```

```
//
fragment
WSNLCHARS
  : ' ' | '\t' | '\f' | '\n' | '\r'
  ;

// This rule allows ANTLR 4 to parse grammars using the UTF-8 encoding with a
// byte order mark. Since this Unicode character doesn't appear as a token
// anywhere else in the grammar, we can simply skip all instances of it without
// problem. This rule will not break usage of \uFEFF inside a LEXER_CHAR_SET or
// STRING_LITERAL.
UnicodeBOM
  :   '\uFEFF' {skip();}
  ;

// ----------------
// Illegal Character
//
// This is an illegal character trap which is always the last rule in the
// lexer specification. It matches a single character of any value and being
// the last rule in the file will match when no other rule knows what to do
// about the character. It is reported as an error but is not passed on to the
// parser. This means that the parser to deal with the gramamr file anyway
// but we will not try to analyse or code generate from a file with lexical
// errors.
//
ERRCHAR
  : .
    {
      Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
      t.setLine(state.tokenStartLine);
      t.setText(state.text);
      t.setCharPositionInLine(state.tokenStartCharPositionInLine);
      String msg = getTokenErrorDisplay(t) + " came as a complete surprise to me";
      grammarError(ErrorType.SYNTAX_ERROR, t, msg);
      state.syntaxErrors++;
      skip();
    }
  ;
```

Found in path(s):
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/parse/ANTLRLexer.g
No license file was found, but licenses were detected in source scan.

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*/

Found in path(s):
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No license file was found, but licenses were detected in source scan.

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*/

/** Find left-recursive rules */
tree grammar LeftRecursiveRuleWalker;

options {
 tokenVocab=ANTLRParser;
  ASTLabelType=GrammarAST;
}

@header {
package org.antlr.v4.parse;

import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}

@members {
private String ruleName;
private int currentOuterAltNumber; // which outer alt of rule?
public int numAlts;  // how many alts for this rule total?

public void setAltAssoc(AltAST altTree, int alt) {}
public void binaryAlt(AltAST altTree, int alt) {}
public void prefixAlt(AltAST altTree, int alt) {}
public void suffixAlt(AltAST altTree, int alt) {}
public void otherAlt(AltAST altTree, int alt) {}
public void setReturnValues(GrammarAST t) {}
}

@rulecatch { }

// TODO: can get parser errors for not matching pattern; make them go away
public
rec_rule returns [boolean isLeftRec]
@init
{
 currentOuterAltNumber = 1;
}
 : ^( r=RULE id=RULE_REF {ruleName=$id.getText();}
  ruleModifier?
```

```
//   (ARG_ACTION)? shouldn't allow args, right?
   (^(RETURNS a=ARG_ACTION {setReturnValues($a);}))?
//       ( ^(THROWS .+) )? don't allow
       ( ^(LOCALS ARG_ACTION) )? // TODO: copy these to gen'd code
       ( ^(OPTIONS .*)
      |  ^(AT ID ACTION) // TODO: copy
      )*
   ruleBlock {$isLeftRec = $ruleBlock.isLeftRec;}
   exceptionGroup
  )
 ;

exceptionGroup
   : exceptionHandler* finallyClause?
   ;

exceptionHandler
 : ^(CATCH ARG_ACTION ACTION)
 ;

finallyClause
 : ^(FINALLY ACTION)
 ;

ruleModifier
   : PUBLIC
   | PRIVATE
   | PROTECTED
   ;

ruleBlock returns [boolean isLeftRec]
@init{boolean lr=false; this.numAlts = $start.getChildCount();}
 : ^( BLOCK
   (
    o=outerAlternative
    {if ($o.isLeftRec) $isLeftRec = true;}
    {currentOuterAltNumber++;}
   )+
  )
 ;

/** An alt is either prefix, suffix, binary, or ternary operation or "other" */
outerAlternative returns [boolean isLeftRec]
   :   (binary)=>          binary
                       {binaryAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
   |   (prefix)=>          prefix
                       {prefixAlt((AltAST)$start, currentOuterAltNumber);}
   |   (suffix)=>          suffix
```

```
                    {suffixAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
  |  nonLeftRecur       {otherAlt((AltAST)$start,  currentOuterAltNumber);}
  ;

binary
 : ^( ALT elementOptions? recurse element* recurse epsilonElement* )
     {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
 ;

prefix
 : ^( ALT elementOptions?
   element+
   recurse epsilonElement*
   )
     {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
 ;

suffix
  :  ^( ALT elementOptions? recurse element+ )
     {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
  ;

nonLeftRecur
  :  ^(ALT elementOptions? element+)
  ;

recurse
 : ^(ASSIGN ID recurseNoLabel)
 | ^(PLUS_ASSIGN ID recurseNoLabel)
 | recurseNoLabel
 ;

recurseNoLabel : {((CommonTree)input.LT(1)).getText().equals(ruleName)}? RULE_REF;

token returns [GrammarAST t=null]
 : ^(ASSIGN ID s=token {$t = $s.t;})
 | ^(PLUS_ASSIGN ID s=token {$t = $s.t;})
 | b=STRING_LITERAL        {$t = $b;}
   | ^(b=STRING_LITERAL elementOptions)  {$t = $b;}
   | ^(c=TOKEN_REF elementOptions)   {$t = $c;}
 | c=TOKEN_REF             {$t = $c;}
 ;

elementOptions
  : ^(ELEMENT_OPTIONS elementOption*)
  ;

elementOption
```

```
  : ID
  |  ^(ASSIGN ID ID)
  |  ^(ASSIGN ID STRING_LITERAL)
  |  ^(ASSIGN ID ACTION)
  |  ^(ASSIGN ID INT)
  ;

element
 : atom
 | ^(NOT element)
 | ^(RANGE atom atom)
 | ^(ASSIGN ID element)
 | ^(PLUS_ASSIGN ID element)
  | ^(SET setElement+)
  |  RULE_REF
 | ebnf
 | epsilonElement
 ;

epsilonElement
 : ACTION
 | SEMPRED
 | EPSILON
 | ^(ACTION elementOptions)
 | ^(SEMPRED elementOptions)
 ;

setElement
 : ^(STRING_LITERAL elementOptions)
 | ^(TOKEN_REF elementOptions)
 | STRING_LITERAL
 | TOKEN_REF
 ;

ebnf:   block
  |  ^( OPTIONAL block )
  |  ^( CLOSURE block )
  |  ^( POSITIVE_CLOSURE block )
  ;

block
  : ^(BLOCK ACTION? alternative+)
  ;

alternative
 : ^(ALT elementOptions? element+)
  ;
```

```
atom
 : ^(RULE_REF ARG_ACTION? elementOptions?)
   | ^(STRING_LITERAL elementOptions)
 | STRING_LITERAL
   | ^(TOKEN_REF elementOptions)
 | TOKEN_REF
   | ^(WILDCARD elementOptions)
 | WILDCARD
 | ^(DOT ID element)
 ;
```

Found in path(s):
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/parse/LeftRecursiveRuleWalker.g
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```
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*/

atn(startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph ATN {
```

```
rankdir=LR;
<decisionRanks; separator="\n">
<states; separator="\n">
<edges; separator="\n">
}
>>

dfa(name, startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph <name>  {
<if(rankdir)>rankdir=<rankdir>;<endif>
<decisionRanks; separator="\n">
<states; separator="\n">
<edges; separator="\n">
}
>>

decision-rank(states) ::= <<
{rank=same; rankdir=TB; <states:{s | s<s>}; separator="; ">}
>>

edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>

action-edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>

epsilon-edge(src,label,target,arrowhead,transitionIndex,loopback=false) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontname="Times-Italic",
label="&epsilon;"<if(loopback)>, style="dashed"<endif>];
>>

state(state, label, name, transitions) ::= <%
<name>[fontsize=11,
  label="
    <! rest(transition) tests for decision states: these nodes have a non-empty set of transitions after the first one. !>
    <if(rest(transitions))>
      {
      <! Label on the left side of the record node. !>
      <label>
      |
      <! Named ports in order on right side of record node, no display text. !>
      {<transitions:{t|\<p<i0>>}; separator="|">}}
    <else>
      <label>
```

```
    <endif>
    "
  <if(rest(transitions))>
    , shape=record, fixedsize=false
  <else>
    , shape=circle, fixedsize=true, width=.55
  <endif>
  , peripheries=1];
%>

stopstate(name,label,actionIndex,useBox) ::= <<
<name>[fontsize=11, label="<label><if(actionIndex)>,\naction:<actionIndex><endif>",
<if(useBox)>shape=polygon,sides=4,peripheries=2,fixedsize=false<else>shape=doublecircle, fixedsize=true,
width=.6<endif>];
>>
```

Found in path(s):
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/templates/dot/graphs.stg
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*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
```

```
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*/

javaTypeInitMap ::= [
 "int":"0",
 "long":"0",
 "float":"0.0f",
 "double":"0.0",
 "boolean":"false",
 "byte":"0",
 "short":"0",
 "char":"0",
 default:"null" // anything other than a primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<namedActions.header>
import org.antlr.v4.runtime.atn.*;
import org.antlr.v4.runtime.dfa.DFA;
import org.antlr.v4.runtime.*;
import org.antlr.v4.runtime.misc.*;
import org.antlr.v4.runtime.tree.*;
import java.util.List;
import java.util.Iterator;
import java.util.ArrayList;

<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.ParseTreeListener;

/**
* This interface defines a complete listener for a parse tree produced by
* {@link <file.parserName>}.
*/
public interface <file.grammarName>Listener extends ParseTreeListener {
```

```
 <file.listenerNames:{lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
* Enter a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
* Enter a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
* @param ctx the parse tree
*/
void enter<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);
/**
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
* Exit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
* @param ctx the parse tree
*/
void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);}; separator="\n">
}
>>

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>

import org.antlr.v4.runtime.ParserRuleContext;
import org.antlr.v4.runtime.tree.ErrorNode;
import org.antlr.v4.runtime.tree.TerminalNode;

/**
* This class provides an empty implementation of {@link <file.grammarName>Listener},
* which can be extended to create a listener which only needs to handle a subset
* of the available methods.
*/
public class <file.grammarName>BaseListener implements <file.grammarName>Listener {
 <file.listenerNames:{lname |
/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
@Override public void enter<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \}
```

```
/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
@Override public void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \}};
separator="\n">

 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 @Override public void enterEveryRule(ParserRuleContext ctx) { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 @Override public void exitEveryRule(ParserRuleContext ctx) { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 @Override public void visitTerminal(TerminalNode node) { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 @Override public void visitErrorNode(ErrorNode node) { }
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.ParseTreeVisitor;

/**
* This interface defines a complete generic visitor for a parse tree produced
* by {@link <file.parserName>}.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
```

```
* operations with no return type.
*/
public interface <file.grammarName>Visitor\<T> extends ParseTreeVisitor\<T> {
 <file.visitorNames:{lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
* Visit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.visitorLabelRuleNames.(lname)>\}.
<else>
* Visit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
* @param ctx the parse tree
* @return the visitor result
*/
T visit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);}; separator="\n">
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.AbstractParseTreeVisitor;

/**
* This class provides an empty implementation of {@link <file.grammarName>Visitor},
* which can be extended to create a visitor which only needs to handle a subset
* of the available methods.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
public class <file.grammarName>BaseVisitor\<T> extends AbstractParseTreeVisitor\<T> implements
<file.grammarName>Visitor\<T> {
 <file.visitorNames:{lname |
/**
* {@inheritDoc\}
*
* \<p>The default implementation returns the result of calling
* {@link #visitChildren\} on {@code ctx\}.\</p>
*/
@Override public T visit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { return
visitChildren(ctx); \}}; separator="\n">
}
>>
```

```
fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName; format="java-escape"> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})
public class <parser.name> extends <superClass; null="Parser"> {
 static { RuntimeMetaData.checkVersion("<file.ANTLRVersion>", RuntimeMetaData.VERSION); }

 protected static final DFA[] _decisionToDFA;
 protected static final PredictionContextCache _sharedContextCache =
  new PredictionContextCache();
 <if(parser.tokens)>
 public static final int
  <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 public static final int
  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
 public static final String[] ruleNames = {
  <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
 };

 <vocabulary(parser.literalNames, parser.symbolicNames)>

 @Override
 public String getGrammarFileName() { return "<parser.grammarFileName; format="java-escape">"; }

 @Override
 public String[] getRuleNames() { return ruleNames; }

 @Override
 public String getSerializedATN() { return _serializedATN; }

 @Override
 public ATN getATN() { return _ATN; }

 <namedActions.members>
 <parser:(ctor)()>
 <funcs; separator="\n">

<if(sempredFuncs)>
 public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
  switch (ruleIndex) {
  <parser.sempredFuncs.values:{f|
```

```
case <f.ruleIndex>:
 return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
  }
 return true;
 }
 <sempredFuncs.values; separator="\n">
<endif>

 <atn>
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static final String[] _LITERAL_NAMES = {
 <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
private static final String[] _SYMBOLIC_NAMES = {
 <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
public static final Vocabulary VOCABULARY = new VocabularyImpl(_LITERAL_NAMES,
_SYMBOLIC_NAMES);

/**
* @deprecated Use {@link #VOCABULARY} instead.
*/
@Deprecated
public static final String[] tokenNames;
static {
 tokenNames = new String[_SYMBOLIC_NAMES.length];
 for (int i = 0; i \< tokenNames.length; i++) {
  tokenNames[i] = VOCABULARY.getLiteralName(i);
  if (tokenNames[i] == null) {
   tokenNames[i] = VOCABULARY.getSymbolicName(i);
  }

  if (tokenNames[i] == null) {
   tokenNames[i] = "\<INVALID>";
  }
 }
}

@Override
@Deprecated
public String[] getTokenNames() {
 return tokenNames;
}

@Override
```

```
public Vocabulary getVocabulary() {
 return VOCABULARY;
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
@Override
public void action(RuleContext _localctx, int ruleIndex, int actionIndex) {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex>:
 <f.name>_action((<f.ctxType>)_localctx, actionIndex);
 break;}; separator="\n">
 }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
@Override
public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
 switch (ruleIndex) {
 <recog.sempredFuncs.values:{f|
case <f.ruleIndex>:
 return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
 }
 return true;
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
public <p.name>(TokenStream input) {
 super(input);
 _interp = new ParserATNSimulator(this,_ATN,_decisionToDFA,_sharedContextCache);
}
>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
 switch (actionIndex) {
 <actions:{index|
case <index>:
```

```
 <actions.(index)>
 break;}; separator="\n">
 }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private boolean <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
 switch (predIndex) {
 <actions:{index|
case <index>:
 return <actions.(index)>;}; separator="\n">
 }
 return true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>
<currentRule.name>(<args; separator=","">) throws RecognitionException {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, getState()<currentRule.args:{a | ,
<a.name>}>);
 enterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 <if(exceptions)>
 <exceptions; separator="\n">
 <else>
 catch (RecognitionException re) {
  _localctx.exception = re;
  _errHandler.reportError(this, re);
  _errHandler.recover(this, re);
```

```
 }
 <endif>
 finally {
  <finallyAction>
  exitRule();
 }
 return _localctx;
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>
<currentRule.name>(<args; separator=", ">) throws RecognitionException {
 return <currentRule.name>(0<currentRule.args:{a | , <a.name>}>);
}

private <currentRule.ctxType> <currentRule.name>(int _p<args:{a | , <a>}>) throws RecognitionException {
 ParserRuleContext _parentctx = _ctx;
 int _parentState = getState();
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | ,
<a.name>}>);
 <currentRule.ctxType> _prevctx = _localctx;
 int _startState = <currentRule.startState>;
 enterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch (RecognitionException re) {
  _localctx.exception = re;
  _errHandler.reportError(this, re);
  _errHandler.recover(this, re);
 }
 finally {
  <finallyAction>
  unrollRecursionContexts(_parentctx);
```

```
 }
 return _localctx;
}
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
{
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
}
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1);<endif>
<preamble; separator="\n">
switch (_input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
 <alt>
 break;}; separator="\n">
default:
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
switch (_input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
 <alt>
 break;}; separator="\n">
default:
 <error>
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
setState(<choice.stateNumber>);
```

```
_errHandler.sync(this);
<preamble; separator="\n">
if (<expr>) {
 <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<preamble; separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 setState(<choice.loopBackStateNumber>);
 _errHandler.sync(this);
 <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
_errHandler.sync(this);
<preamble; separator="\n">
do {
 <alts; separator="\n">
 setState(<choice.stateNumber>); <! loopback/exit decision !>
 _errHandler.sync(this);
 <iteration>
} while ( <loopExpr> );
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1);<endif>
<preamble; separator="\n">
switch ( getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx) ) {
<alts:{alt |
case <i>:
 <alt>
 break;}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
```

```
setState(<choice.stateNumber>);
_errHandler.sync(this);
switch ( getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx) ) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
_alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER ) {
 if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
  <iteration>
  <alts> <! should only be one !>
 }
 setState(<choice.loopBackStateNumber>);
 _errHandler.sync(this);
 _alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
}
>>

PlusBlock(choice, alts, error) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
_errHandler.sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
 default:
  <error>
 }
 setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
 _errHandler.sync(this);
 _alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER );
>>

Sync(s) ::= "sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw new NoViableAltException(this);"
```

```
TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \<\< <offsetShift(s.varName, bits.shift)>) &
(<bits.ttypes:{ttype | (1L \<\< <offsetShift(ttype, bits.shift)>)}; separator=" | ">)) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>==<ttype>}; separator=" || ">
%>

cases(ttypes) ::= <<
<ttypes:{t | case <t>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
setState(<r.stateNumber>);
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif><r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>
);
>>

MatchToken(m) ::= <<
setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>match(<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"
```

```
MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l | <labelref(l)> = }>_input.LT(1);<endif>
<capture>
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>) ) {
 <if(m.labels)><m.labels:{l | <labelref(l)> = (Token)}><endif>_errHandler.recoverInline(this);
}
else {
 if ( _input.LA(1)==Token.EOF ) matchedEOF = true;
 _errHandler.reportMatch(this);
 consume();
}
>>

Wildcard(w) ::= <<
setState(<w.stateNumber>);
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
setState(<p.stateNumber>);
if (!(<chunks>)) throw new FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "skip();"
LexerMoreCommand()  ::= "more();"
LexerPopModeCommand() ::= "popMode();"

LexerTypeCommand(arg, grammar)      ::= "_type = <arg>;"
LexerChannelCommand(arg, grammar)   ::= "_channel = <arg>;"
LexerModeCommand(arg, grammar)      ::= "_mode = <arg>;"
```

```
LexerPushModeCommand(arg, grammar)  ::= "pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.name>"
LocalRef(a) ::= "_localctx.<a.name>"
RetValueRef(a) ::= "_localctx.<a.name>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>;"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getText():null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getType():0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getLine():0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getCharPositionInLine():0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getChannel():0)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getTokenIndex():0)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>.<t.label>!=null?Integer.valueOf(<ctx(t)>.<t.label>.getText()):0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.start):null)"
RulePropertyRef_stop(r)  ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.stop):null)"
RulePropertyRef_text(r)  ::=
"(<ctx(r)>.<r.label>!=null?_input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop):null)"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r)  ::= "_localctx.stop"
ThisRulePropertyRef_text(r)  ::= "_input.getText(_localctx.start, _input.LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "_localctx"
ThisRulePropertyRef_parser(r)  ::= "this"

NonLocalAttrRef(s)   ::= "((<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.name>"
SetNonLocalAttr(s, rhsChunks)   ::=
 "((<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.name> = <rhsChunks>;"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.add(<labelref(a.label)>);"

TokenDecl(t) ::= "<TokenLabelType()> <t.name>"
TokenTypeDecl(t) ::= "int <t.name>;"
TokenListDecl(t) ::= "List\<Token> <t.name> = new ArrayList\<Token>()"
RuleContextDecl(r) ::= "<r.ctxName> <r.name>"
```

```
RuleContextListDecl(rdecl) ::= "List\<<rdecl.ctxName>> <rdecl.name> = new ArrayList\<<rdecl.ctxName>>()"

ContextTokenGetterDecl(t)      ::=
   "public TerminalNode <t.name>() { return getToken(<parser.name>.<t.name>, 0); }"
ContextTokenListGetterDecl(t)  ::=
   "public List\<TerminalNode> <t.name>() { return getTokens(<parser.name>.<t.name>); }"
ContextTokenListIndexedGetterDecl(t)  ::= <<
public TerminalNode <t.name>(int i) {
 return getToken(<parser.name>.<t.name>, i);
}
>>
ContextRuleGetterDecl(r)       ::= <<
public <r.ctxName> <r.name>() {
 return getRuleContext(<r.ctxName>.class,0);
}
>>
ContextRuleListGetterDecl(r)   ::= <<
public List\<<r.ctxName>\> <r.name>() {
 return getRuleContexts(<r.ctxName>.class);
}
>>
ContextRuleListIndexedGetterDecl(r)   ::= <<
public <r.ctxName> <r.name>(int i) {
 return getRuleContext(<r.ctxName>.class,i);
}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = _input.LT(1);"
CaptureNextTokenType(d) ::= "<d.varName> = _input.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers)
 ::= <<
public static class <struct.name> extends
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
<interfaces; separator=", "><endif> {
 <attrs:{a | public <a>;}; separator="\n">
```

```
 <getters:{g | <g>}; separator="\n">
 <if(ctorAttrs)>public <struct.name>(ParserRuleContext parent, int invokingState) { super(parent, invokingState);
}<endif>
 public <struct.name>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>}>) {
  super(parent, invokingState);
  <struct.ctorAttrs:{a | this.<a.name> = <a.name>;}; separator="\n">
 }
 @Override public int getRuleIndex() { return RULE_<struct.derivedFromName>; }
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 public <struct.name>() { }
 public void copyFrom(<struct.name> ctx) {
  super.copyFrom(ctx);
  <struct.attrs:{a | this.<a.name> = ctx.<a.name>;}; separator="\n">
 }
<endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
public static class <struct.name> extends <currentRule.name; format="cap">Context {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 public <struct.name>(<currentRule.name; format="cap">Context ctx) { copyFrom(ctx); }
 <dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
@Override
public void <if(method.isEnter)>enter<else>exit<endif>Rule(ParseTreeListener listener) {
 if ( listener instanceof <parser.grammarName>Listener )
((<parser.grammarName>Listener)listener).<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName;
format="cap">(this);
}
>>

VisitorDispatchMethod(method) ::= <<
@Override
public \<T> T accept(ParseTreeVisitor\<? extends T> visitor) {
 if ( visitor instanceof <parser.grammarName>Visitor ) return ((<parser.grammarName>Visitor\<? extends
T>)visitor).visit<struct.derivedFromName; format="cap">(this);
 else return visitor.visitChildren(this);
}
>>

AttributeDecl(d) ::= "<d.type> <d.name><if(d.initValue)> = <d.initValue><endif>"
```

```
/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>((<x.ctx.name>)_localctx).<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "((<actionChunk.ctx.name>)_localctx)"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "precpred(_ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>;"
recRuleSetStopToken()                 ::= "_ctx.stop = _input.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = new <ctxName>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>
<if(label)>_localctx.<label> = _prevctx;<endif>
pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
_localctx = new <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
_parentState));
<if(label)>
<if(isListLabel)>
((<currentAltLabel; format="cap">Context)_localctx).<label>.add(_prevctx);
<else>
((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;
<endif>
<endif>
pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
_localctx = new <ctxName>Context(_localctx);
_ctx = _localctx;
_prevctx = _localctx;
>>

recRuleSetPrevCtx() ::= <<
if ( _parseListeners!=null ) triggerExitRuleEvent();
_prevctx = _localctx;
>>
```

```
LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<if(lexerFile.genPackage)>
package <lexerFile.genPackage>;
<endif>
<namedActions.header>
import org.antlr.v4.runtime.Lexer;
import org.antlr.v4.runtime.CharStream;
import org.antlr.v4.runtime.Token;
import org.antlr.v4.runtime.TokenStream;
import org.antlr.v4.runtime.*;
import org.antlr.v4.runtime.atn.*;
import org.antlr.v4.runtime.dfa.DFA;
import org.antlr.v4.runtime.misc.*;

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})
public class <lexer.name> extends <superClass; null="Lexer"> {
 static { RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION); }

 protected static final DFA[] _decisionToDFA;
 protected static final PredictionContextCache _sharedContextCache =
  new PredictionContextCache();
 public static final int
  <lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
 <if(lexer.channels)>
 public static final int
  <lexer.channels:{k | <k>=<lexer.channels.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <rest(lexer.modes):{m| public static final int <m> = <i>;}; separator="\n">
 public static String[] modeNames = {
  <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
 };

 public static final String[] ruleNames = {
  <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
 };

 <vocabulary(lexer.literalNames, lexer.symbolicNames)>

 <namedActions.members>

 public <lexer.name>(CharStream input) {
```

```
 super(input);
 _interp = new LexerATNSimulator(this,_ATN,_decisionToDFA,_sharedContextCache);
 }

 @Override
 public String getGrammarFileName() { return "<lexer.grammarFileName>"; }

 @Override
 public String[] getRuleNames() { return ruleNames; }

 @Override
 public String getSerializedATN() { return _serializedATN; }

 @Override
 public String[] getModeNames() { return modeNames; }

 @Override
 public ATN getATN() { return _ATN; }

 <dumpActions(lexer, "", actionFuncs, sempredFuncs)>
 <atn>
}
>>

SerializedATN(model) ::= <<
<if(rest(model.segments))>
<! requires segmented representation !>
private static final int _serializedATNSegments = <length(model.segments)>;
<model.segments:{segment|private static final String _serializedATNSegment<i0> =
 "<segment; wrap={"+<\n><\t>"}>";}; separator="\n">
public static final String _serializedATN = Utils.join(
 new String[] {
  <model.segments:{segment | _serializedATNSegment<i0>}; separator=",\n">
 },
 ""
);
<else>
<! only one segment, can be inlined !>
public static final String _serializedATN =
 "<model.serialized; wrap={"+<\n><\t>"}>";
<endif>
public static final ATN _ATN =
 new ATNDeserializer().deserialize(_serializedATN.toCharArray());
static {
 _decisionToDFA = new DFA[_ATN.getNumberOfDecisions()];
 for (int i = 0; i \< _ATN.getNumberOfDecisions(); i++) {
  _decisionToDFA[i] = new DFA(_ATN.getDecisionState(i), i);
 }
```

<! org.antlr.v4.tool.DOTGenerator dot = new org.antlr.v4.tool.DOTGenerator(null);!>
<! System.out.println(dot.getDOT(_ATN.decisionToState.get(0), ruleNames, false));!>
<! System.out.println(dot.getDOT(_ATN.ruleToStartState[2], ruleNames, false));!>
}
>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".java"

Found in path(s):
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/tool/templates/codegen/Java/Java.stg
No license file was found, but licenses were detected in source scan.

```
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

/** ANTLR tool checks output templates are compatible with tool code generation.
*  For now, a simple string match used on x.y of x.y.z scheme.
*  Must match Tool.VERSION during load to templates.
*
*  REQUIRED.
*/

pythonTypeInitMap ::= [
 "bool":"False",
 "int":"0",
 "float":"0.0",
 "str":"",
 default:"None" // anything other than a primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
# encoding: utf-8
from antlr4 import *
from io import StringIO

<namedActions.header>
<parser>

>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if __name__ is not None and "." in __name__:
  from .<file.parserName> import <file.parserName>
else:
  from <file.parserName> import <file.parserName>
<header>

# This class defines a complete listener for a parse tree produced by <file.parserName>.
class <file.grammarName>Listener(ParseTreeListener):

  <file.listenerNames:{lname |
# Enter a parse tree produced by <file.parserName>#<lname>.
def enter<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
  pass
```

```
# Exit a parse tree produced by <file.parserName>#<lname>.
def exit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
  pass

}; separator="\n">

>>


VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if __name__ is not None and "." in __name__:
  from .<file.parserName> import <file.parserName>
else:
  from <file.parserName> import <file.parserName>
<header>

# This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

class <file.grammarName>Visitor(ParseTreeVisitor):

  <file.visitorNames:{lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
  return self.visitChildren(ctx)

}; separator="\n">

del <file.parserName>
>>


fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
from .<superClass> import <superClass>

<endif>
<atn>
```

```
class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

  grammarFileName = "<parser.grammarFileName>"

  atn = ATNDeserializer().deserialize(serializedATN())

  decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

  sharedContextCache = PredictionContextCache()

  literalNames = [ <parser.literalNames:{t | <t>}; null="\"\<INVALID>\"", separator=", ", wrap, anchor> ]

  symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="\"\<INVALID>\"", separator=", ", wrap, anchor> ]

  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator="\n", wrap, anchor>

  ruleNames =  [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ]

  EOF = <TokenLabelType()>.EOF
  <if(parser.tokens)>
  <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator="\n", wrap, anchor>
  <endif>

  <parser:(ctor)()>

  <namedActions.members>

  <funcs; separator="\n">


<if(sempredFuncs)>
  def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
      if self._predicates == None:
          self._predicates = dict()
<parser.sempredFuncs.values:{f |
      self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n        ">
      pred = self._predicates.get(ruleIndex, None)
      if pred is None:
          raise Exception("No predicate with index:" + str(ruleIndex))
      else:
          return pred(localctx, predIndex)

  <sempredFuncs.values; separator="\n">
<endif>



>>
```

```
dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx:RuleContext, ruleIndex:int, actionIndex:int):
 if self._actions is None:
  actions = dict()
<recog.actionFuncs.values:{f|
  actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
  self._actions = actions
 action = self._actions.get(ruleIndex, None)
 if action is not None:
  action(localctx, actionIndex)
 else:
  raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n">

<endif>
<if(sempredFuncs)>
def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
   if self._predicates is None:
       preds = dict()
<recog.sempredFuncs.values:{f|
       preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
       self._predicates = preds
   pred = self._predicates.get(ruleIndex, None)
   if pred is not None:
       return pred(localctx, predIndex)
   else:
       raise Exception("No registered predicate for:" + str(ruleIndex))

<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
def __init__(self, input:TokenStream):
   super().__init__(input)
   self.checkVersion("<file.ANTLRVersion>")
   self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
   self._predicates = None

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
```

```
def <r.name>_action(self, localctx:<r.ctxType> , actionIndex:int):
<actions:{index|
<if(first(actions))>
  if actionIndex == <index>:
     <actions.(index)>
<elseif(rest(actions))>
  elif actionIndex == <index>:
     <actions.(index)>
<endif> }; separator="\n">
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx:<r.ctxType>, predIndex:int):
  <actions:{index|
<if(first(actions))>
  if predIndex == <index>:
     return <actions.(index)>
<elseif(rest(actions))>
  elif predIndex == <index>:
     return <actions.(index)>
<endif> }; separator="\n">

>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>

<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.name>(self<currentRule.args:{a | , <a.name><if(a.type)>:<a.type><endif>}>):

  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a | , <a.name>}>)
  self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)
  <namedActions.init>
  <locals; separator="\n">
  try:
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  <if(exceptions)>
  <exceptions; separator="\n">
  <else>
```

```
  except RecognitionException as re:
    localctx.exception = re
    self._errHandler.reportError(self, re)
    self._errHandler.recover(self, re)
  <endif>
  finally:
    <finallyAction>
    self.exitRule()
  return localctx

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.name>(self, _p:int=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):
  _parentctx = self._ctx
  _parentState = self.state
  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.name>}>)
  _prevctx = localctx
  _startState = <currentRule.startState>
  self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
  <namedActions.init>
  <locals; separator="\n">
  try:
    <code>
    <postamble; separator="\n">
    <namedActions.after>
  except RecognitionException as re:
    localctx.exception = re
    self._errHandler.reportError(self, re)
    self._errHandler.recover(self, re)
  finally:
    <finallyAction>
    self.unrollRecursionContexts(_parentctx)
  return localctx

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(self, localctx)<endif>
self.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
```

```
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  pass}; separator="\nel">
else:
  <error>

>>

LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  pass}; separator="\nel">
else:
  <error>
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
if <expr>:
  <alts; separator="\n">

<!else if ( !(<followExpr>) ) <error>!>
>>


LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
```

```
while <loopExpr>:
  <alts; separator="\n">
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  <iteration>

>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
  <alts; separator="\n">
  self.state = <choice.stateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  <iteration>
  if not (<loopExpr>):
     break

>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i>:
  <alt>
  pass
}; separator="\nel">

>>

OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">

>>
```

```
StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  if _alt==1<if(!choice.ast.greedy)>+1<endif>:
     <iteration>
     <alts> <! should only be one !>
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  <alts:{alt|
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">
  else:
     <error>
  self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

Sync(s) ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" or ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
```

```
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> and ((1 \<\< <offsetShiftVar(s.varName,
bits.shift)>) & (<bits.ttypes:{ttype | (1 \<\< <offsetShiftType(ttype, bits.shift)>)}; separator=" | ">)) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<parser.name>.<shiftAmount> - <offset>)<else><parser.name>.<shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>==<parser.name>.<ttype>}; separator=" or ">
%>

cases(ttypes) ::= <<
if token in [<ttypes:{t | <parser.name>.<t>}; separator=", ">]:
>>

InvokeRule(r, argExprsChunks) ::= <<
self.state = <r.stateNumber>
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>self.<r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChu
nks>)
>>

MatchToken(m) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>self.match(<parser.name>.<m.name>)
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr>)<endif>:
<if(m.labels)><m.labels:{l |     <labelref(l)> = }><else>    <endif>self._errHandler.recoverInline(self)
```

```
else:
  self._errHandler.reportMatch(self)
  self.consume()
>>

Wildcard(w) ::= <<
self.state = <w.stateNumber>
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>self.matchWildcard()
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
self.state = <p.stateNumber>
if not <chunks>:
  from antlr4.error.Errors import FailedPredicateException
  raise FailedPredicateException(self, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>)
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "skip()"
LexerMoreCommand()  ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg, grammar)      ::= "_type = <arg>"
LexerChannelCommand(arg, grammar)   ::= "_channel = <arg>"
LexerModeCommand(arg, grammar)      ::= "_mode = <arg>"
LexerPushModeCommand(arg, grammar)  ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValueRef(a) ::= "localctx.<a.name>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
```

```
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type()"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if (<ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r)  ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r)  ::= "(None if <ctx(r)>.<r.label> is None else
self._input.getText((<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "self"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r)  ::= "localctx.stop"
ThisRulePropertyRef_text(r)  ::= "self._input.getText((localctx.start, self._input.LT(-1)))"
ThisRulePropertyRef_ctx(r)  ::= "localctx"
ThisRulePropertyRef_parser(r)  ::= "self"

NonLocalAttrRef(s)     ::= "getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks)  ::= "getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "self.<t.name> = None # <TokenLabelType()>"
TokenTypeDecl(t) ::= "self.<t.name> = 0 # <TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.name> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.name> = None # <r.ctxName>"
RuleContextListDecl(rdecl) ::= "self.<rdecl.name> = list() # of <rdecl.ctxName>s"

ContextTokenGetterDecl(t)      ::= <<
def <t.name>(self):
  return self.getToken(<parser.name>.<t.name>, 0)
>>

// should never be called
ContextTokenListGetterDecl(t)  ::= <<
def <t.name>_list(self):
```

```
  return self.getTokens(<parser.name>.<t.name>)
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
def <t.name>(self, i:int=None):
  if i is None:
     return self.getTokens(<parser.name>.<t.name>)
  else:
     return self.getToken(<parser.name>.<t.name>, i)
>>

ContextRuleGetterDecl(r)       ::= <<
def <r.name>(self):
  return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)

>>

// should never be called
ContextRuleListGetterDecl(r)   ::= <<
def <r.name>_list(self):
  return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)

>>

ContextRuleListIndexedGetterDecl(r)   ::= <<
def <r.name>(self, i:int=None):
  if i is None:
     return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
  else:
     return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)

>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"
```

```
StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers) ::= <<
class <struct.name>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):

  def __init__(self, parser, parent:ParserRuleContext=None, invokingState:int=-1<struct.ctorAttrs:{a | ,
<a.name><if(a.type)>:<a.type><endif>=None}>):
    super().__init__(parent, invokingState)
    self.parser = parser
    <attrs:{a | <a>}; separator="\n">
    <struct.ctorAttrs:{a | self.<a.name> = <a.name>}; separator="\n">

  <getters:{g | <g>}; separator="\n\n">

  def getRuleIndex(self):
    return <parser.name>.RULE_<struct.derivedFromName>

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
  def copyFrom(self, ctx:ParserRuleContext):
    super().copyFrom(ctx)
    <struct.attrs:{a | self.<a.name> = ctx.<a.name>}; separator="\n">

<endif>
  <dispatchMethods; separator="\n">
  <extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.name>(<currentRule.name; format="cap">Context):

  def __init__(self, parser, ctx:ParserRuleContext): # actually a <parser.name>.<currentRule.name;
format="cap">Context
    super().__init__(parser)
    <attrs:{a | <a>}; separator="\n">
    self.copyFrom(ctx)

  <getters:{g | <g>}; separator="\n">

  <dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener:ParseTreeListener):
  if hasattr( listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">" ):
    listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)

>>
```

```
VisitorDispatchMethod(method) ::= <<
def accept(self, visitor:ParseTreeVisitor):
  if hasattr( visitor, "visit<struct.derivedFromName; format="cap">" ):
    return visitor.visit<struct.derivedFromName; format="cap">(self)
  else:
    return visitor.visitChildren(self)

>>

AttributeDecl(d) ::= "self.<d.name> = <if(d.initValue)><d.initValue><else>None<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "self.precpred(self._ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>"
recRuleSetStopToken()                ::= "self._ctx.stop = self._input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label) ::= <<
localctx = <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
<if(label)>localctx.<label> = _prevctx<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName;
format="cap">Context(self, _parentctx, _parentState))
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleReplaceContext(ctxName) ::= <<
localctx = <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>

recRuleSetPrevCtx() ::= <<
```

```
if self._parseListeners is not None:
  self.triggerExitRuleEvent()
_prevctx = localctx
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
from antlr4 import *
from io import StringIO

<namedActions.header>

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<

<atn>

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

  atn = ATNDeserializer().deserialize(serializedATN())

  decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

  <rest(lexer.modes):{m| <m> = <i>}; separator="\n">

  <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>

  modeNames = [ <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor> ]

  literalNames = [ "\<INVALID>",
       <lexer.literalNames:{t | <t>}; separator=", ", wrap, anchor> ]

  symbolicNames = [ "\<INVALID>",
       <lexer.symbolicNames:{t | <t>}; separator=", ", wrap, anchor> ]

  ruleNames = [ <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ]

  grammarFileName = "<lexer.grammarFileName>"

  def __init__(self, input=None):
     super().__init__(input)
     self.checkVersion("<lexerFile.ANTLRVersion>")
     self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
     self._actions = None
     self._predicates = None
```

```
  <namedActions.members>

  <dumpActions(lexer, "", actionFuncs, sempredFuncs)>

>>

SerializedATN(model) ::= <<
<! only one segment, can be inlined !>

def serializedATN():
  with StringIO() as buf:
    buf.write("<model.serialized; wrap={")<\n>       buf.write("}>")
    return buf.getvalue()

>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".py"

Found in path(s):
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/tool/templates/codegen/Python3/Python3.stg
No license file was found, but licenses were detected in source scan.

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```

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Found in path(s):
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/parse/ANTLRParser.g
No license file was found, but licenses were detected in source scan.

```
/*
* [The "BSD license"]
*  Copyright (c) 2016, Mike Lischke
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*/
```

Found in path(s):
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/tool/templates/codegen/Cpp/Files.stg
No license file was found, but licenses were detected in source scan.

```
/*
* [The "BSD license"]
```

```
tree grammar SourceGenTriggers;
options {
 language     = Java;
 tokenVocab   = ANTLRParser;
 ASTLabelType = GrammarAST;
}

@header {
package org.antlr.v4.codegen;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.codegen.model.*;
import org.antlr.v4.codegen.model.decl.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.Collections;
import java.util.Map;
import java.util.HashMap;
}

@members {
```

```
 public OutputModelController controller;
  public boolean hasLookaheadBlock;
  public SourceGenTriggers(TreeNodeStream input, OutputModelController controller) {
   this(input);
   this.controller = controller;
  }
}

dummy : block[null, null] ;

block[GrammarAST label, GrammarAST ebnfRoot] returns [List<? extends SrcOp> omos]
  : ^( blk=BLOCK (^(OPTIONS .+))?
  {List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();}
    ( alternative {alts.add($alternative.altCodeBlock);} )+
   )
   {
   if ( alts.size()==1 && ebnfRoot==null) return alts;
   if ( ebnfRoot==null ) {
      $omos = DefaultOutputModelFactory.list(controller.getChoiceBlock((BlockAST)$blk, alts, $label));
   }
   else {
        Choice choice = controller.getEBNFBlock($ebnfRoot, alts);
        hasLookaheadBlock |= choice instanceof PlusBlock || choice instanceof StarBlock;
      $omos = DefaultOutputModelFactory.list(choice);
   }
   }
  ;

alternative returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
  boolean outerMost = inContext("RULE BLOCK");
}
@after {
  controller.finishAlternative($altCodeBlock, $ops, outerMost);
}
  : a=alt[outerMost] {$altCodeBlock=$a.altCodeBlock; $ops=$a.ops;}
 ;

alt[boolean outerMost] returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
 // set alt if outer ALT only (the only ones with alt field set to Alternative object)
 AltAST altAST = (AltAST)retval.start;
 if ( outerMost ) controller.setCurrentOuterMostAlt(altAST.alt);
}
 : {
  List<SrcOp> elems = new ArrayList<SrcOp>();
  // TODO: shouldn't we pass $start to controller.alternative()?
  $altCodeBlock = controller.alternative(controller.getCurrentOuterMostAlt(), outerMost);
```

```
 $altCodeBlock.ops = $ops = elems;
 controller.setCurrentBlock($altCodeBlock);
 }
 ^( ALT elementOptions? ( element {if ($element.omos!=null) elems.addAll($element.omos);} )+ )

| ^(ALT elementOptions? EPSILON)
     {$altCodeBlock = controller.epsilon(controller.getCurrentOuterMostAlt(), outerMost);}
  ;

element returns [List<? extends SrcOp> omos]
 : labeledElement     {$omos = $labeledElement.omos;}
 | atom[null,false]   {$omos = $atom.omos;}
 | subrule       {$omos = $subrule.omos;}
 |   ACTION       {$omos = controller.action((ActionAST)$ACTION);}
 |   SEMPRED       {$omos = controller.sempred((ActionAST)$SEMPRED);}
 | ^(ACTION elementOptions)  {$omos = controller.action((ActionAST)$ACTION);}
 |   ^(SEMPRED elementOptions)  {$omos = controller.sempred((ActionAST)$SEMPRED);}
 ;

labeledElement returns [List<? extends SrcOp> omos]
 : ^(ASSIGN ID atom[$ID,false] )   {$omos = $atom.omos;}
 | ^(PLUS_ASSIGN ID atom[$ID,false])  {$omos = $atom.omos;}
 | ^(ASSIGN ID block[$ID,null] )   {$omos = $block.omos;}
 | ^(PLUS_ASSIGN ID block[$ID,null])  {$omos = $block.omos;}
 ;

subrule returns [List<? extends SrcOp> omos]
 : ^(OPTIONAL b=block[null,$OPTIONAL])
  {
  $omos = $block.omos;
  }
 | ( ^(op=CLOSURE b=block[null,null])
  | ^(op=POSITIVE_CLOSURE b=block[null,null])
  )
  {
  List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();
  SrcOp blk = $b.omos.get(0);
  CodeBlockForAlt alt = new CodeBlockForAlt(controller.delegate);
  alt.addOp(blk);
  alts.add(alt);
  SrcOp loop = controller.getEBNFBlock($op, alts); // "star it"
      hasLookaheadBlock |= loop instanceof PlusBlock || loop instanceof StarBlock;
      $omos = DefaultOutputModelFactory.list(loop);
  }
 |  block[null, null]     {$omos = $block.omos;}
  ;

blockSet[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
```

```
  : ^(SET atom[label,invert]+) {$omos = controller.set($SET, $label, invert);}
  ;

/*
setElement
 : STRING_LITERAL
 | TOKEN_REF
 | ^(RANGE STRING_LITERAL STRING_LITERAL)
 ;
*/

// TODO: combine ROOT/BANG into one then just make new op ref'ing return value of atom/terminal...
// TODO: same for NOT
atom[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
 : ^(NOT a=atom[$label, true])  {$omos = $a.omos;}
 | range[label]       {$omos = $range.omos;}
 | ^(DOT ID terminal[$label])
 | ^(DOT ID ruleref[$label])
  | ^(WILDCARD .)       {$omos = controller.wildcard($WILDCARD, $label);}
  | WILDCARD        {$omos = controller.wildcard($WILDCARD, $label);}
  |   terminal[label]     {$omos = $terminal.omos;}
  |   ruleref[label]     {$omos = $ruleref.omos;}
 | blockSet[$label, invert]  {$omos = $blockSet.omos;}
 ;

ruleref[GrammarAST label] returns [List<SrcOp> omos]
  : ^(RULE_REF ARG_ACTION? elementOptions?)  {$omos = controller.ruleRef($RULE_REF, $label,
$ARG_ACTION);}
  ;

range[GrammarAST label] returns [List<SrcOp> omos]
  : ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
  ;

terminal[GrammarAST label] returns [List<SrcOp> omos]
  :  ^(STRING_LITERAL .)   {$omos = controller.stringRef($STRING_LITERAL, $label);}
  | STRING_LITERAL    {$omos = controller.stringRef($STRING_LITERAL, $label);}
  | ^(TOKEN_REF ARG_ACTION .) {$omos = controller.tokenRef($TOKEN_REF, $label, $ARG_ACTION);}
  | ^(TOKEN_REF .)    {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
  | TOKEN_REF     {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
  ;

elementOptions
  : ^(ELEMENT_OPTIONS elementOption+)
  ;

elementOption
  : ID
```

```
  |  ^(ASSIGN ID ID)
  |  ^(ASSIGN ID STRING_LITERAL)
  |  ^(ASSIGN ID ACTION)
  |  ^(ASSIGN ID INT)
  ;
```

Found in path(s):
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/SourceGenTriggers.g
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*/

lexer grammar ActionSplitter;

options { filter=true; }

@header {
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
```

```
import org.antlr.v4.tool.ast.*;
}

@members {
ActionSplitterListener delegate;

public ActionSplitter(CharStream input, ActionSplitterListener delegate) {
  this(input, new RecognizerSharedState());
  this.delegate = delegate;
}

/** force filtering (and return tokens). triggers all above actions. */
public List<Token> getActionTokens() {
  List<Token> chunks = new ArrayList<Token>();
  Token t = nextToken();
  while ( t.getType()!=Token.EOF ) {
     chunks.add(t);
     t = nextToken();
  }
  return chunks;
}

private boolean isIDStartChar(int c) {
 return c == '_' || Character.isLetter(c);
}
}

// ignore comments right away

COMMENT
  :   '/*' ( options {greedy=false;} : . )* '*/' {delegate.text($text);}
  ;

LINE_COMMENT
  : '//' ~('\n'|'\r')* '\r'? '\n' {delegate.text($text);}
  ;

SET_NONLOCAL_ATTR
 : '$' x=ID '::' y=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
  {
  delegate.setNonLocalAttr($text, $x, $y, $expr);
  }
 ;

NONLOCAL_ATTR
 : '$' x=ID '::' y=ID {delegate.nonLocalAttr($text, $x, $y);}
 ;
```

```
QUALIFIED_ATTR
 : '$' x=ID '.' y=ID {input.LA(1)!='('}? {delegate.qualifiedAttr($text, $x, $y);}
 ;

SET_ATTR
 : '$' x=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
  {
  delegate.setAttr($text, $x, $expr);
  }
 ;

ATTR
 : '$' x=ID {delegate.attr($text, $x);}
 ;

// Anything else is just random text
TEXT
@init {StringBuilder buf = new StringBuilder();}
@after {delegate.text(buf.toString());}
 : ( c=~('\\'| '$') {buf.append((char)$c);}
  | '\\$' {buf.append('$');}
  | '\\' c=~('$') {buf.append('\\').append((char)$c);}
  | {!isIDStartChar(input.LA(2))}? => '$' {buf.append('$');}
  )+
 ;

fragment
ID  : ('a'..'z'|'A'..'Z'|'_') ('a'..'z'|'A'..'Z'|'0'..'9'|'_')*
   ;

/** Don't allow an = as first char to prevent $x == 3; kind of stuff. */
fragment
ATTR_VALUE_EXPR
 : ~'=' (~';')*
 ;

fragment
WS : (' '|'\t'|'\n'|'\r')+
 ;
```

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* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/parse/ActionSplitter.g
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*/

/** ANTLR tool checks output templates are compatible with tool code generation.
*  For now, a simple string match used on x.y of x.y.z scheme.
*  Must match Tool.VERSION during load to templates.
*
*  REQUIRED.
*/

pythonTypeInitMap ::= [
 "bool":"False",
 "int":"0",
 "float":"0.0",
 "str":"",
 default:"None" // anything other than a primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
var antlr4 = require('antlr4/index');
<if(file.genListener)>
```

```
var <file.grammarName>Listener = require('./<file.grammarName>Listener').<file.grammarName>Listener;
<endif>
<if(file.genVisitor)>
var <file.grammarName>Visitor = require('./<file.grammarName>Visitor').<file.grammarName>Visitor;
<endif>

<namedActions.header>
<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
var antlr4 = require('antlr4/index');

// This class defines a complete listener for a parse tree produced by <file.parserName>.
function <file.grammarName>Listener() {
 antlr4.tree.ParseTreeListener.call(this);
 return this;
}

<file.grammarName>Listener.prototype = Object.create(antlr4.tree.ParseTreeListener.prototype);
<file.grammarName>Listener.prototype.constructor = <file.grammarName>Listener;

<file.listenerNames:{lname |
// Enter a parse tree produced by <file.parserName>#<lname>.
<file.grammarName>Listener.prototype.enter<lname; format="cap"> = function(ctx) {
\};

// Exit a parse tree produced by <file.parserName>#<lname>.
<file.grammarName>Listener.prototype.exit<lname; format="cap"> = function(ctx) {
\};

}; separator="\n">

exports.<file.grammarName>Listener = <file.grammarName>Listener;
>>


VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
var antlr4 = require('antlr4/index');

// This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

function <file.grammarName>Visitor() {
 antlr4.tree.ParseTreeVisitor.call(this);
 return this;
}
```

```
<file.grammarName>Visitor.prototype = Object.create(antlr4.tree.ParseTreeVisitor.prototype);
<file.grammarName>Visitor.prototype.constructor = <file.grammarName>Visitor;

<file.visitorNames:{lname |
// Visit a parse tree produced by <file.parserName>#<lname>.
<file.grammarName>Visitor.prototype.visit<lname; format="cap"> = function(ctx) {
 return this.visitChildren(ctx);
\};

}; separator="\n">

exports.<file.grammarName>Visitor = <file.grammarName>Visitor;
>>


fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName; format="java-escape"> by ANTLR <ANTLRVersion>
// jshint ignore: start
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<if(superClass)>
var <superClass> = require('./<superClass>').<superClass>;
<endif>

var grammarFileName = "<parser.grammarFileName; format="java-escape">";

<atn>

var atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);

var decisionsToDFA = atn.decisionToState.map( function(ds, index) { return new antlr4.dfa.DFA(ds, index); });

var sharedContextCache = new antlr4.PredictionContextCache();

var literalNames = [ <parser.literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];

var symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];

var ruleNames =  [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ];

function <parser.name> (input) {
 <superClass; null="antlr4.Parser">.call(this, input);
   this._interp = new antlr4.atn.ParserATNSimulator(this, atn, decisionsToDFA, sharedContextCache);
   this.ruleNames = ruleNames;
   this.literalNames = literalNames;
   this.symbolicNames = symbolicNames;
```

```
 <namedActions.members>
   return this;
}

<parser.name>.prototype = Object.create(<superClass; null="antlr4.Parser">.prototype);
<parser.name>.prototype.constructor = <parser.name>;

Object.defineProperty(<parser.name>.prototype, "atn", {
 get : function() {
  return atn;
 }
});

<parser.name>.EOF = antlr4.Token.EOF;
<if(parser.tokens)>
<parser.tokens:{k | <parser.name>.<k> = <parser.tokens.(k)>;}; separator="\n", wrap, anchor>
<endif>

<parser.rules:{r | <parser.name>.RULE_<r.name> = <r.index>;}; separator="\n", wrap, anchor>

<funcs; separator="\n">

<if(sempredFuncs)>
<parser.name>.prototype.sempred = function(localctx, ruleIndex, predIndex) {
 switch(ruleIndex) {
 <parser.sempredFuncs.values:{f | case <f.ruleIndex>:
  return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
   default:
       throw "No predicate with index:" + ruleIndex;
  }
};

<sempredFuncs.values; separator="\n">
<endif>

exports.<parser.name> = <parser.name>;

>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
<lexer.name>.prototype.action = function(localctx, ruleIndex, actionIndex) {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex>:
 this.<f.name>_action(localctx, actionIndex);
 break;}; separator="\n">
 default:
```

```
 throw "No registered action for:" + ruleIndex;
 }
};

<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
<lexer.name>.prototype.sempred = function(localctx, ruleIndex, predIndex) {
 switch (ruleIndex) {
  <recog.sempredFuncs.values:{f| case <f.ruleIndex>:
 return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
    default:
     throw "No registered predicate for:" + ruleIndex;
   }
};

<sempredFuncs.values; separator="\n">
<endif>
>>


/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

<lexer.name>.prototype.<r.name>_action = function(localctx , actionIndex) {
 switch (actionIndex) {
 <actions:{index|
case <index>:
 <actions.(index)>
 break;}; separator="\n">
 default:
  throw "No registered action for:" + actionIndex;
 }
};
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
<if (r.factory.g.lexer)><lexer.name><else><parser.name><endif>.prototype.<r.name>_sempred = function(localctx,
predIndex) {
 switch(predIndex) {
  <actions:{index| case <index>:
 return <actions.(index)>;}; separator="\n">
  default:
```

```
  throw "No predicate with index:" + predIndex;
 }
};

>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>

<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<! Define fields of this parser to export the context classes !>
<parser.name>.<currentRule.ctxType> = <currentRule.ctxType>;

<parser.name>.prototype.<currentRule.name> = function(<currentRule.args:{a | <a.name>}; separator=", ">) {

  var localctx = new <currentRule.ctxType>(this, this._ctx, this.state<currentRule.args:{a | , <a.name>}>);
  this.enterRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>);
  <namedActions.init>
  <locals; separator="\n">
  try {
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  <if(exceptions)>
  <exceptions; separator="\n">
  <else>
  } catch (re) {
   if(re instanceof antlr4.error.RecognitionException) {
       localctx.exception = re;
       this._errHandler.reportError(this, re);
       this._errHandler.recover(this, re);
    } else {
     throw re;
    }
  }<endif> finally {
     <finallyAction>
     this.exitRule();
  }
  return localctx;
};

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
```

```
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<parser.name>.prototype.<currentRule.name> = function(_p<if(currentRule.args)>, <args:{a | , <a>}><endif>) {
 if(_p===undefined) {
    _p = 0;
 }
  var _parentctx = this._ctx;
  var _parentState = this.state;
  var localctx = new <currentRule.ctxType>(this, this._ctx, _parentState<args:{a | , <a.name>}>);
  var _prevctx = localctx;
  var _startState = <currentRule.startState>;
  this.enterRecursionRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p);
  <namedActions.init>
  <locals; separator="\n">
  try {
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  } catch( error) {
     if(error instanceof antlr4.error.RecognitionException) {
       localctx.exception = error;
       this._errHandler.reportError(this, error);
       this._errHandler.recover(this, error);
    } else {
    throw error;
    }
  } finally {
     <finallyAction>
     this.unrollRecursionContexts(_parentctx)
  }
  return localctx;
};

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(this, localctx);<endif>
this.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
```

```
<ops; separator="\n">
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = this._input.LT(1);<endif>
<preamble; separator="\n">
switch(this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  break;}; separator="\n">
default:
  <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
switch (this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
 <alt>
 break;}; separator="\n">
default:
 <error>
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<preamble; separator="\n">
if(<expr>) {
  <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<preamble; separator="\n">
while(<loopExpr>) {
  <alts; separator="\n">
  this.state = <choice.loopBackStateNumber>;
  this._errHandler.sync(this);
  <iteration>
```

```
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
<preamble; separator="\n">
do {
  <alts; separator="\n">
  this.state = <choice.stateNumber>; <! loopback/exit decision !>
  this._errHandler.sync(this);
  <iteration>
} while(<loopExpr>);
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
var la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
switch(la_) {
<alts:{alt |
case <i>:
  <alt>
  break;
}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
var la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
<alts:{alt |
if(la_===<i><if(!choice.ast.greedy)>+1<endif>) {
  <alt>
}; separator="\n} else ">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
var _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx)
while(_alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER) {
```

```
  if(_alt===1<if(!choice.ast.greedy)>+1<endif>) {
     <iteration>
     <alts> <! should only be one !>
  }
  this.state = <choice.loopBackStateNumber>;
  this._errHandler.sync(this);
  _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
}

>>

PlusBlock(choice, alts, error) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
var _alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
 default:
  <error>
 }
 this.state = <choice.loopBackStateNumber>; <! loopback/exit decision !>
 this._errHandler.sync(this);
 _alt = this._interp.adaptivePredict(this._input,<choice.decision>, this._ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER );
>>

Sync(s) ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "throw new antlr4.error.NoViableAltException(this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Javascript language spec - shift operators are 32 bits long max
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x1f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> && ((1 \<\< <offsetShiftVar(s.varName,
bits.shift)>) & (<bits.ttypes:{ttype | (1 \<\< <offsetShiftType(ttype, bits.shift)>)}; separator=" | ">)) !== 0)
```

```
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<parser.name>.<shiftAmount> - <offset>)<else><parser.name>.<shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>===<parser.name>.<ttype>}; separator=" || ">
%>

cases(ttypes) ::= <<
<ttypes:{t | case <parser.name>.<t>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
this.state = <r.stateNumber>;
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>this.<r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChu
nks>);
>>

MatchToken(m) ::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>this.match(<parser.name>.<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }>this._input.LT(1);<endif>
<capture>
<if(invert)>if(<m.varName>\<=0 || <expr>)<else>if(!(<expr>))<endif> {
  <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>this._errHandler.recoverInline(this);
}
else {
```

```
 this._errHandler.reportMatch(this);
  this.consume();
}
>>

Wildcard(w) ::= <<
this.state = <w.stateNumber>;
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
this.state = <p.stateNumber>;
if (!( <chunks>)) {
  throw new antlr4.error.FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "this.skip()"
LexerMoreCommand()  ::= "this.more()"
LexerPopModeCommand() ::= "this.popMode()"
LexerTypeCommand(arg, grammar)      ::= "this._type = <arg>"
LexerChannelCommand(arg, grammar)   ::= "this._channel = <arg>"
LexerModeCommand(arg, grammar)      ::= "this._mode = <arg>"
LexerPushModeCommand(arg, grammar)  ::= "this.pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValueRef(a) ::= "localctx.<a.name>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
```

```
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label>===null ? null : <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : parseInt(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label>===null ? null : <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r)  ::= "(<ctx(r)>.<r.label>===null ? null : <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r)  ::= "(<ctx(r)>.<r.label>===null ? null : this._input.getText(new
antlr4.Interval(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "this"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r)  ::= "localctx.stop"
ThisRulePropertyRef_text(r)  ::= "this._input.getText(new antlr4.Interval(localctx.start, this._input.LT(-1)))"
ThisRulePropertyRef_ctx(r)  ::= "localctx"
ThisRulePropertyRef_parser(r)  ::= "this"

NonLocalAttrRef(s)     ::= "getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks)  ::= "getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.push(<labelref(a.label)>);"

TokenDecl(t) ::= "this.<t.name> = null; // <TokenLabelType()>"
TokenTypeDecl(t) ::= "var <t.name> = 0; // <TokenLabelType()> type"
TokenListDecl(t) ::= "this.<t.name> = []; // of <TokenLabelType()>s"
RuleContextDecl(r) ::= "this.<r.name> = null; // <r.ctxName>"
RuleContextListDecl(rdecl) ::= "this.<rdecl.name> = []; // of <rdecl.ctxName>s"

ContextTokenGetterDecl(t)      ::= <<
<t.name> = function() {
  return this.getToken(<parser.name>.<t.name>, 0);
};
>>

// should never be called
ContextTokenListGetterDecl(t)  ::= <<
def <t.name>_list(self):
```

```
  return self.getTokens(<parser.name>.<t.name>)
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
<t.name> = function(i) {
 if(i===undefined) {
  i = null;
 }
  if(i===null) {
     return this.getTokens(<parser.name>.<t.name>);
  } else {
     return this.getToken(<parser.name>.<t.name>, i);
  }
};

>>

ContextRuleGetterDecl(r)       ::= <<
<r.name> = function() {
  return this.getTypedRuleContext(<r.ctxName>,0);
};
>>

// should never be called
ContextRuleListGetterDecl(r)   ::= <<
def <r.name>_list(self):
  return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)

>>

ContextRuleListIndexedGetterDecl(r)   ::= <<
<r.name> = function(i) {
  if(i===undefined) {
     i = null;
  }
  if(i===null) {
     return this.getTypedRuleContexts(<r.ctxName>);
  } else {
     return this.getTypedRuleContext(<r.ctxName>,i);
  }
};
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
```

```
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = this._input.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers) ::= <<
function <struct.name>(parser, parent, invokingState<struct.ctorAttrs:{a | , <a.name>}>) {
 if(parent===undefined) {
    parent = null;
 }
 if(invokingState===undefined || invokingState===null) {
  invokingState = -1;
 }
 <if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif>.call(this, parent,
invokingState);
   this.parser = parser;
   this.ruleIndex = <parser.name>.RULE_<struct.derivedFromName>;
   <attrs:{a | <a>}; separator="\n">
   <struct.ctorAttrs:{a | this.<a.name> = <a.name> || null;}; separator="\n">
   return this;
}

<struct.name>.prototype =
Object.create(<if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif>.prototype);
<struct.name>.prototype.constructor = <struct.name>;

<getters:{g | <struct.name>.prototype.<g>}; separator="\n\n">

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
<struct.name>.prototype.copyFrom = function(ctx) {
<if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif>.prototype.copyFrom.call(this,
ctx);
   <struct.attrs:{a | this.<a.name> = ctx.<a.name>;}; separator="\n">
};
<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
function <struct.name>(parser, ctx) {
 <currentRule.name; format="cap">Context.call(this, parser);
```

```
  <attrs:{a | <a>;}; separator="\n">
  <currentRule.name; format="cap">Context.prototype.copyFrom.call(this, ctx);
  return this;
}

<struct.name>.prototype = Object.create(<currentRule.name; format="cap">Context.prototype);
<struct.name>.prototype.constructor = <struct.name>;

<! Define fields of this parser to export this struct/context class !>
<parser.name>.<struct.name> = <struct.name>;

<getters:{g | <struct.name>.prototype.<g>}; separator="\n\n">
<dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
<struct.name>.prototype.<if(method.isEnter)>enter<else>exit<endif>Rule = function(listener) {
  if(listener instanceof <parser.grammarName>Listener ) {
     listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(this);
 }
};

>>

VisitorDispatchMethod(method) ::= <<
<struct.name>.prototype.accept = function(visitor) {
  if ( visitor instanceof <parser.grammarName>Visitor ) {
     return visitor.visit<struct.derivedFromName; format="cap">(this);
  } else {
     return visitor.visitChildren(this);
  }
};

>>

AttributeDecl(d) ::= "this.<d.name> = <if(d.initValue)><d.initValue><else>null<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "this.precpred(this._ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>"
recRuleSetStopToken()                 ::= "this._ctx.stop = this._input.LT(-1);"
```

```
recRuleAltStartAction(ruleName, ctxName, label) ::= <<
localctx = new <ctxName>Context(this, _parentctx, _parentState);
<if(label)>localctx.<label> = _prevctx;<endif>
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = new <currentAltLabel; format="cap">Context(this, new <ruleName; format="cap">Context(this,
_parentctx, _parentState));
<if(label)>
<if(isListLabel)>
localctx.<label>.push(_prevctx);
<else>
localctx.<label> = _prevctx;
<endif>
<endif>
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
localctx = new <ctxName>Context(this, localctx);
this._ctx = localctx;
_prevctx = localctx;
>>

recRuleSetPrevCtx() ::= <<
if(this._parseListeners!==null) {
  this.triggerExitRuleEvent();
}
_prevctx = localctx;
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
var antlr4 = require('antlr4/index');

<namedActions.header>

<lexer>

>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<

<atn>
```

```
var atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);

var decisionsToDFA = atn.decisionToState.map( function(ds, index) { return new antlr4.dfa.DFA(ds, index); });

function <lexer.name>(input) {
 <if(superClass)><superClass><else>antlr4.Lexer<endif>.call(this, input);
  this._interp = new antlr4.atn.LexerATNSimulator(this, atn, decisionsToDFA, new
antlr4.PredictionContextCache());
  return this;
}

<lexer.name>.prototype = Object.create(<if(superClass)><superClass><else>antlr4.Lexer<endif>.prototype);
<lexer.name>.prototype.constructor = <lexer.name>;

<lexer.name>.EOF = antlr4.Token.EOF;
<lexer.tokens:{k | <lexer.name>.<k> = <lexer.tokens.(k)>;}; separator="\n", wrap, anchor>

<rest(lexer.modes):{m| <lexer.name>.<m> = <i>;}; separator="\n">

<lexer.name>.prototype.modeNames = [ <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor> ];

<lexer.name>.prototype.literalNames = [ <lexer.literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];

<lexer.name>.prototype.symbolicNames = [ <lexer.symbolicNames:{t | <t>}; null="null", separator=", ", wrap,
anchor> ];

<lexer.name>.prototype.ruleNames = [ <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ];

<lexer.name>.prototype.grammarFileName = "<lexer.grammarFileName>";

<namedActions.members>

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>

exports.<lexer.name> = <lexer.name>;

>>

SerializedATN(model) ::= <<
<! only one segment, can be inlined !>

var serializedATN = ["<model.serialized; wrap={",<\n>    "}>"].join("");

>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
```

```
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".js"
```

Found in path(s):
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/templates/codegen/JavaScript/JavaScript.stg
No license file was found, but licenses were detected in source scan.


```
/*
This file contains the actual layout of the messages emitted by ANTLR.
The text itself is coming out of the languages/*stg files, according to the chosen locale.
This file contains the format that mimicks GCC output.
*/

location(file, line, column) ::= "<file>:<line>:"

message(id, text) ::= "<text> (<id>)"
```

report(location, message, type) ::= "<location> <type>: <message>"

wantsSingleLineMessage() ::= "true"

Found in path(s):
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/templates/messages/formats/gnu.stg
No license file was found, but licenses were detected in source scan.

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*/
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 THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
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 */

Found in path(s):
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/gui/GraphicsSupport.java
No license file was found, but licenses were detected in source scan.

/*

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THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
/*
This file contains the actual layout of the messages emitted by ANTLR.
This file contains the default format ANTLR uses.
*/

location(file, line, column) ::= "<file>:<line>:<column>:"

message(id, text) ::= "(<id>) <text>"

report(location, message, type) ::= "<type>(<message.id>): <location> <message.text>"

wantsSingleLineMessage() ::= "false"

Found in path(s):
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/tool/templates/messages/formats/antlr.stg
No license file was found, but licenses were detected in source scan.

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*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

/** templates used to generate make-compatible dependencies */

/** Generate "f : x, y, z" dependencies for input
*  dependencies and generated files. in and out
*  are File objects.  For example, you can say
*  <f.canonicalPath>
*/
dependencies(grammarFileName,in,out) ::= <<
<if(in)><grammarFileName>: <in; separator=", "><endif>
<out:{f | <f> : <grammarFileName>}; separator="\n">
>>
```

Found in path(s):
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/templates/depend.stg
No license file was found, but licenses were detected in source scan.

```
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```

```
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*/

/** ANTLR tool checks output templates are compatible with tool code generation.
*  For now, a simple string match used on x.y of x.y.z scheme.
*  Must match Tool.VERSION during load to templates.
*
*  REQUIRED.
*/

pythonTypeInitMap ::= [
 "bool":"False",
 "int":"0",
 "float":"0.0",
 "str":"",
 default:"None" // anything other than a primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
# encoding: utf-8
from __future__ import print_function
from antlr4 import *
from io import StringIO
```

```
<namedActions.header>
<parser>

>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
<header>

# This class defines a complete listener for a parse tree produced by <file.parserName>.
class <file.grammarName>Listener(ParseTreeListener):

  <file.listenerNames:{lname |
# Enter a parse tree produced by <file.parserName>#<lname>.
def enter<lname; format="cap">(self, ctx):
  pass

# Exit a parse tree produced by <file.parserName>#<lname>.
def exit<lname; format="cap">(self, ctx):
  pass

}; separator="\n">

>>


VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
<header>

# This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

class <file.grammarName>Visitor(ParseTreeVisitor):

  <file.visitorNames:{lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx):
  return self.visitChildren(ctx)

}; separator="\n">

>>


fileHeader(grammarFileName, ANTLRVersion) ::= <<
```

```
# Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
from .<superClass> import <superClass>

<endif>
<atn>

class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

  grammarFileName = "<parser.grammarFileName>"

  atn = ATNDeserializer().deserialize(serializedATN())

  decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

  sharedContextCache = PredictionContextCache()

  literalNames = [ <parser.literalNames:{t | u<t>}; null="u\"\<INVALID>\"", separator=", ", wrap, anchor> ]

  symbolicNames = [ <parser.symbolicNames:{t | u<t>}; null="u\"\<INVALID>\"", separator=", ", wrap, anchor> ]

  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator="\n", wrap, anchor>

  ruleNames =  [ <parser.ruleNames:{r | u"<r>"}; separator=", ", wrap, anchor> ]

  EOF = <TokenLabelType()>.EOF
  <if(parser.tokens)>
  <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator="\n", wrap, anchor>
  <endif>

  <parser:(ctor)()>

  <namedActions.members>

  <funcs; separator="\n">


<if(sempredFuncs)>
  def sempred(self, localctx, ruleIndex, predIndex):
      if self._predicates == None:
          self._predicates = dict()
```

```
<parser.sempredFuncs.values:{f |
      self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n        ">
      pred = self._predicates.get(ruleIndex, None)
      if pred is None:
         raise Exception("No predicate with index:" + str(ruleIndex))
      else:
         return pred(localctx, predIndex)

  <sempredFuncs.values; separator="\n">
<endif>



>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx, ruleIndex, actionIndex):
 if self._actions is None:
  actions = dict()
<recog.actionFuncs.values:{f|
  actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
  self._actions = actions
 action = self._actions.get(ruleIndex, None)
 if action is not None:
  action(localctx, actionIndex)
 else:
  raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n">

<endif>
<if(sempredFuncs)>
def sempred(self, localctx, ruleIndex, predIndex):
   if self._predicates is None:
      preds = dict()
<recog.sempredFuncs.values:{f|
      preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
      self._predicates = preds
   pred = self._predicates.get(ruleIndex, None)
   if pred is not None:
      return pred(localctx, predIndex)
   else:
      raise Exception("No registered predicate for:" + str(ruleIndex))

<sempredFuncs.values; separator="\n">
<endif>
>>
```

```
parser_ctor(p) ::= <<
def __init__(self, input):
  super(<parser.name>, self).__init__(input)
  self.checkVersion("<file.ANTLRVersion>")
  self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
  self._predicates = None

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx , actionIndex):
<actions:{index|
<if(first(actions))>
  if actionIndex == <index>:
      <actions.(index)>
<elseif(rest(actions))>
  elif actionIndex == <index>:
      <actions.(index)>
<endif> }; separator="\n">
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx, predIndex):
  <actions:{index|
<if(first(actions))>
  if predIndex == <index>:
      return <actions.(index)>
<elseif(rest(actions))>
  elif predIndex == <index>:
      return <actions.(index)>
<endif> }; separator="\n">

>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>

<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">
```

```
def <currentRule.name>(self<currentRule.args:{a | , <a.name>}>):

  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a | , <a.name>}>)
  self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)
  <namedActions.init>
  <locals; separator="\n">
  try:
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  <if(exceptions)>
  <exceptions; separator="\n">
  <else>
  except RecognitionException as re:
     localctx.exception = re
     self._errHandler.reportError(self, re)
     self._errHandler.recover(self, re)
  <endif>
  finally:
     <finallyAction>
     self.exitRule()
  return localctx

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.name>(self, _p=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):
  _parentctx = self._ctx
  _parentState = self.state
  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.name>}>)
  _prevctx = localctx
  _startState = <currentRule.startState>
  self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
  <namedActions.init>
  <locals; separator="\n">
  try:
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  except RecognitionException as re:
     localctx.exception = re
```

```
      self._errHandler.reportError(self, re)
      self._errHandler.recover(self, re)
  finally:
      <finallyAction>
      self.unrollRecursionContexts(_parentctx)
  return localctx

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(self, localctx)<endif>
self.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  pass}; separator="\nel">
else:
  <error>

>>

LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  pass}; separator="\nel">
else:
  <error>
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
```

```
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
if <expr>:
  <alts; separator="\n">

<!else if ( !(<followExpr>) ) <error>!>
>>


LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
while <loopExpr>:
  <alts; separator="\n">
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  <iteration>

>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
  <alts; separator="\n">
  self.state = <choice.stateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  <iteration>
  if not (<loopExpr>):
     break

>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i>:
  <alt>
  pass
```

```
}; separator="\nel">

>>

OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">

>>

StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  if _alt==1<if(!choice.ast.greedy)>+1<endif>:
    <iteration>
    <alts> <! should only be one !>
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  <alts:{alt|
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">
  else:
    <error>
  self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

Sync(s) ::= "sync(<s.expecting.name>)"
```

```
ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" or ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> and ((1 \<\< <offsetShiftVar(s.varName,
bits.shift)>) & (<bits.ttypes:{ttype | (1 \<\< <offsetShiftType(ttype, bits.shift)>)}; separator=" | ">)) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<parser.name>.<shiftAmount> - <offset>)<else><parser.name>.<shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>==<parser.name>.<ttype>}; separator=" or ">
%>

cases(ttypes) ::= <<
if token in [<ttypes:{t | <parser.name>.<t>}; separator=", ">]:
>>

InvokeRule(r, argExprsChunks) ::= <<
self.state = <r.stateNumber>
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>self.<r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChu
nks>)
>>

MatchToken(m) ::= <<
```

```
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>self.match(<parser.name>.<m.name>)
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr>)<endif>:
<if(m.labels)><m.labels:{l |     <labelref(l)> = }><else>    <endif>self._errHandler.recoverInline(self)
else:
  self._errHandler.reportMatch(self)
  self.consume()
>>

Wildcard(w) ::= <<
self.state = <w.stateNumber>
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>self.matchWildcard()
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
self.state = <p.stateNumber>
if not <chunks>:
  from antlr4.error.Errors import FailedPredicateException
  raise FailedPredicateException(self, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>)
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "skip()"
LexerMoreCommand()  ::= "more()"
```

```
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg, grammar)      ::= "_type = <arg>"
LexerChannelCommand(arg, grammar)   ::= "_channel = <arg>"
LexerModeCommand(arg, grammar)      ::= "_mode = <arg>"
LexerPushModeCommand(arg, grammar)  ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValueRef(a) ::= "localctx.<a.name>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type()"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if (<ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r)  ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r)  ::= "(None if <ctx(r)>.<r.label> is None else
self._input.getText((<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "self"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r)  ::= "localctx.stop"
ThisRulePropertyRef_text(r)  ::= "self._input.getText((localctx.start, self._input.LT(-1)))"
ThisRulePropertyRef_ctx(r)  ::= "localctx"
ThisRulePropertyRef_parser(r)  ::= "self"

NonLocalAttrRef(s)     ::= "getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks)  ::= "getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"
```

```
TokenDecl(t) ::= "self.<t.name> = None # <TokenLabelType()>"
TokenTypeDecl(t) ::= "self.<t.name> = 0 # <TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.name> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.name> = None # <r.ctxName>"
RuleContextListDecl(rdecl) ::= "self.<rdecl.name> = list() # of <rdecl.ctxName>s"

ContextTokenGetterDecl(t)      ::= <<
def <t.name>(self):
  return self.getToken(<parser.name>.<t.name>, 0)
>>

// should never be called
ContextTokenListGetterDecl(t)  ::= <<
def <t.name>_list(self):
  return self.getTokens(<parser.name>.<t.name>)
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
def <t.name>(self, i=None):
  if i is None:
     return self.getTokens(<parser.name>.<t.name>)
  else:
     return self.getToken(<parser.name>.<t.name>, i)
>>

ContextRuleGetterDecl(r)       ::= <<
def <r.name>(self):
  return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)

>>

// should never be called
ContextRuleListGetterDecl(r)   ::= <<
def <r.name>_list(self):
  return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)

>>

ContextRuleListIndexedGetterDecl(r)   ::= <<
def <r.name>(self, i=None):
  if i is None:
     return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
  else:
     return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)

>>

LexerRuleContext() ::= "RuleContext"
```

```
/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers) ::= <<
class <struct.name>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):

  def __init__(self, parser, parent=None, invokingState=-1<struct.ctorAttrs:{a | , <a.name>=None}>):
    super(<parser.name>.<struct.name>, self).__init__(parent, invokingState)
    self.parser = parser
    <attrs:{a | <a>}; separator="\n">
    <struct.ctorAttrs:{a | self.<a.name> = <a.name>}; separator="\n">

  <getters:{g | <g>}; separator="\n\n">

  def getRuleIndex(self):
    return <parser.name>.RULE_<struct.derivedFromName>

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
  def copyFrom(self, ctx):
    super(<parser.name>.<struct.name>, self).copyFrom(ctx)
    <struct.attrs:{a | self.<a.name> = ctx.<a.name>}; separator="\n">

<endif>
  <dispatchMethods; separator="\n">
  <extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.name>(<currentRule.name; format="cap">Context):

  def __init__(self, parser, ctx): # actually a <parser.name>.<currentRule.name; format="cap">Context)
    super(<parser.name>.<struct.name>, self).__init__(parser)
    <attrs:{a | <a>}; separator="\n">
    self.copyFrom(ctx)

  <getters:{g | <g>}; separator="\n">
```

```
  <dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener):
  if hasattr(listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">"):
     listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)

>>

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor):
  if hasattr(visitor, "visit<struct.derivedFromName; format="cap">"):
     return visitor.visit<struct.derivedFromName; format="cap">(self)
  else:
     return visitor.visitChildren(self)

>>

AttributeDecl(d) ::= "self.<d.name> = <if(d.initValue)><d.initValue><else>None<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "self.precpred(self._ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>"
recRuleSetStopToken()                 ::= "self._ctx.stop = self._input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label) ::= <<
localctx = <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
<if(label)>localctx.<label> = _prevctx<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName;
format="cap">Context(self, _parentctx, _parentState))
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
```

```
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>


recRuleReplaceContext(ctxName) ::= <<
localctx = <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
  self.triggerExitRuleEvent()
_prevctx = localctx
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
# encoding: utf-8
from __future__ import print_function
from antlr4 import *
from io import StringIO

<namedActions.header>

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<

<atn>

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

  atn = ATNDeserializer().deserialize(serializedATN())

  decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

  <rest(lexer.modes):{m| <m> = <i>}; separator="\n">

  <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>

  modeNames = [ <lexer.modes:{m| u"<m>"}; separator=", ", wrap, anchor> ]

  literalNames = [ u"\<INVALID>",
```

```
        <lexer.literalNames:{t | u<t>}; separator=", ", wrap, anchor> ]

  symbolicNames = [ u"\<INVALID>",
        <lexer.symbolicNames:{t | u<t>}; separator=", ", wrap, anchor> ]

  ruleNames = [ <lexer.ruleNames:{r | u"<r>"}; separator=", ", wrap, anchor> ]

  grammarFileName = u"<lexer.grammarFileName>"

  def __init__(self, input=None):
     super(<lexer.name>, self).__init__(input)
     self.checkVersion("<lexerFile.ANTLRVersion>")
     self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
     self._actions = None
     self._predicates = None

  <namedActions.members>

  <dumpActions(lexer, "", actionFuncs, sempredFuncs)>

>>

SerializedATN(model) ::= <<
<! only one segment, can be inlined !>

def serializedATN():
  with StringIO() as buf:
     buf.write(u"<model.serialized; wrap={")<\n>       buf.write(u"}>")
     return buf.getvalue()

>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".py"

Found in path(s):
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/tool/templates/codegen/Python2/Python2.stg
No license file was found, but licenses were detected in source scan.

/*
* [The "BSD license"]
```

```
*  Copyright (c) 2012-2016 Terence Parr
*  Copyright (c) 2012-2016 Sam Harwell
*  All rights reserved.
*
*  Redistribution and use in source and binary forms, with or without
*  modification, are permitted provided that the following conditions
*  are met:
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*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

/** The definitive ANTLR v3 tree grammar to walk/visit ANTLR v4 grammars.
*  Parses trees created by ANTLRParser.g.
*
*  Rather than have multiple tree grammars, one for each visit, I'm
*  creating this generic visitor that knows about context. All of the
*  boilerplate pattern recognition is done here. Then, subclasses can
*  override the methods they care about. This prevents a lot of the same
*  context tracking stuff like "set current alternative for current
*  rule node" that is repeated in lots of tree filters.
*/
tree grammar GrammarTreeVisitor;
options {
 language      = Java;
 tokenVocab    = ANTLRParser;
 ASTLabelType  = GrammarAST;
}

// Include the copyright in this source and also the generated source
@header {
/*
```

```
package org.antlr.v4.parse;
import org.antlr.v4.Tool;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
}

@members {
public String grammarName;
public GrammarAST currentRuleAST;
public String currentModeName = LexerGrammar.DEFAULT_MODE_NAME;
public String currentRuleName;
public GrammarAST currentOuterAltRoot;
public int currentOuterAltNumber = 1; // 1..n
public int rewriteEBNFLevel = 0;

public GrammarTreeVisitor() { this(null); }

// Should be abstract but can't make gen'd parser abstract;
// subclasses should implement else everything goes to stderr!
```

```
public ErrorManager getErrorManager() { return null; }

public void visitGrammar(GrammarAST t) { visit(t, "grammarSpec"); }
public void visit(GrammarAST t, String ruleName) {
 CommonTreeNodeStream nodes = new CommonTreeNodeStream(new GrammarASTAdaptor(), t);
 setTreeNodeStream(nodes);
 try {
  Method m = getClass().getMethod(ruleName);
  m.invoke(this);
 }
 catch (Throwable e) {
  ErrorManager errMgr = getErrorManager();
  if ( e instanceof InvocationTargetException ) {
   e = e.getCause();
  }
  //e.printStackTrace(System.err);
  if ( errMgr==null ) {
   System.err.println("can't find rule "+ruleName+
         " or tree structure error: "+t.toStringTree()
         );
   e.printStackTrace(System.err);
  }
  else errMgr.toolError(ErrorType.INTERNAL_ERROR, e);
 }
}

public void discoverGrammar(GrammarRootAST root, GrammarAST ID) { }
public void finishPrequels(GrammarAST firstPrequel) { }
public void finishGrammar(GrammarRootAST root, GrammarAST ID) { }

public void grammarOption(GrammarAST ID, GrammarAST valueAST) { }
public void ruleOption(GrammarAST ID, GrammarAST valueAST) { }
public void blockOption(GrammarAST ID, GrammarAST valueAST) { }
public void defineToken(GrammarAST ID) { }
public void defineChannel(GrammarAST ID) { }
public void globalNamedAction(GrammarAST scope, GrammarAST ID, ActionAST action) { }
public void importGrammar(GrammarAST label, GrammarAST ID) { }

public void modeDef(GrammarAST m, GrammarAST ID) { }

public void discoverRules(GrammarAST rules) { }
public void finishRules(GrammarAST rule) { }
public void discoverRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
      ActionAST arg, ActionAST returns, GrammarAST thrws,
      GrammarAST options, ActionAST locals,
      List<GrammarAST> actions,
      GrammarAST block) { }
public void finishRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
```

```
public void discoverLexerRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
                              GrammarAST block) { }
public void finishLexerRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void ruleCatch(GrammarAST arg, ActionAST action) { }
public void finallyAction(ActionAST action) { }
public void discoverOuterAlt(AltAST alt) { }
public void finishOuterAlt(AltAST alt) { }
public void discoverAlt(AltAST alt) { }
public void finishAlt(AltAST alt) { }

public void ruleRef(GrammarAST ref, ActionAST arg) { }
public void tokenRef(TerminalAST ref) { }
public void elementOption(GrammarASTWithOptions t, GrammarAST ID, GrammarAST valueAST) { }
public void stringRef(TerminalAST ref) { }
public void wildcardRef(GrammarAST ref) { }
public void actionInAlt(ActionAST action) { }
public void sempredInAlt(PredAST pred) { }
public void label(GrammarAST op, GrammarAST ID, GrammarAST element) { }
public void lexerCallCommand(int outerAltNumber, GrammarAST ID, GrammarAST arg) { }
public void lexerCommand(int outerAltNumber, GrammarAST ID) { }

protected void enterGrammarSpec(GrammarAST tree) { }
protected void exitGrammarSpec(GrammarAST tree) { }

protected void enterPrequelConstructs(GrammarAST tree) { }
protected void exitPrequelConstructs(GrammarAST tree) { }

protected void enterPrequelConstruct(GrammarAST tree) { }
protected void exitPrequelConstruct(GrammarAST tree) { }

protected void enterOptionsSpec(GrammarAST tree) { }
protected void exitOptionsSpec(GrammarAST tree) { }

protected void enterOption(GrammarAST tree) { }
protected void exitOption(GrammarAST tree) { }

protected void enterOptionValue(GrammarAST tree) { }
protected void exitOptionValue(GrammarAST tree) { }

protected void enterDelegateGrammars(GrammarAST tree) { }
protected void exitDelegateGrammars(GrammarAST tree) { }

protected void enterDelegateGrammar(GrammarAST tree) { }
protected void exitDelegateGrammar(GrammarAST tree) { }

protected void enterTokensSpec(GrammarAST tree) { }
protected void exitTokensSpec(GrammarAST tree) { }
```

```
protected void enterTokenSpec(GrammarAST tree) { }
protected void exitTokenSpec(GrammarAST tree) { }

protected void enterChannelsSpec(GrammarAST tree) { }
protected void exitChannelsSpec(GrammarAST tree) { }

protected void enterChannelSpec(GrammarAST tree) { }
protected void exitChannelSpec(GrammarAST tree) { }

protected void enterAction(GrammarAST tree) { }
protected void exitAction(GrammarAST tree) { }

protected void enterRules(GrammarAST tree) { }
protected void exitRules(GrammarAST tree) { }

protected void enterMode(GrammarAST tree) { }
protected void exitMode(GrammarAST tree) { }

protected void enterLexerRule(GrammarAST tree) { }
protected void exitLexerRule(GrammarAST tree) { }

protected void enterRule(GrammarAST tree) { }
protected void exitRule(GrammarAST tree) { }

protected void enterExceptionGroup(GrammarAST tree) { }
protected void exitExceptionGroup(GrammarAST tree) { }

protected void enterExceptionHandler(GrammarAST tree) { }
protected void exitExceptionHandler(GrammarAST tree) { }

protected void enterFinallyClause(GrammarAST tree) { }
protected void exitFinallyClause(GrammarAST tree) { }

protected void enterLocals(GrammarAST tree) { }
protected void exitLocals(GrammarAST tree) { }

protected void enterRuleReturns(GrammarAST tree) { }
protected void exitRuleReturns(GrammarAST tree) { }

protected void enterThrowsSpec(GrammarAST tree) { }
protected void exitThrowsSpec(GrammarAST tree) { }

protected void enterRuleAction(GrammarAST tree) { }
protected void exitRuleAction(GrammarAST tree) { }

protected void enterRuleModifier(GrammarAST tree) { }
protected void exitRuleModifier(GrammarAST tree) { }
```

```
protected void enterLexerRuleBlock(GrammarAST tree) { }
protected void exitLexerRuleBlock(GrammarAST tree) { }

protected void enterRuleBlock(GrammarAST tree) { }
protected void exitRuleBlock(GrammarAST tree) { }

protected void enterLexerOuterAlternative(AltAST tree) { }
protected void exitLexerOuterAlternative(AltAST tree) { }

protected void enterOuterAlternative(AltAST tree) { }
protected void exitOuterAlternative(AltAST tree) { }

protected void enterLexerAlternative(GrammarAST tree) { }
protected void exitLexerAlternative(GrammarAST tree) { }

protected void enterLexerElements(GrammarAST tree) { }
protected void exitLexerElements(GrammarAST tree) { }

protected void enterLexerElement(GrammarAST tree) { }
protected void exitLexerElement(GrammarAST tree) { }

protected void enterLabeledLexerElement(GrammarAST tree) { }
protected void exitLabeledLexerElement(GrammarAST tree) { }

protected void enterLexerBlock(GrammarAST tree) { }
protected void exitLexerBlock(GrammarAST tree) { }

protected void enterLexerAtom(GrammarAST tree) { }
protected void exitLexerAtom(GrammarAST tree) { }

protected void enterActionElement(GrammarAST tree) { }
protected void exitActionElement(GrammarAST tree) { }

protected void enterAlternative(AltAST tree) { }
protected void exitAlternative(AltAST tree) { }

protected void enterLexerCommand(GrammarAST tree) { }
protected void exitLexerCommand(GrammarAST tree) { }

protected void enterLexerCommandExpr(GrammarAST tree) { }
protected void exitLexerCommandExpr(GrammarAST tree) { }

protected void enterElement(GrammarAST tree) { }
protected void exitElement(GrammarAST tree) { }

protected void enterAstOperand(GrammarAST tree) { }
protected void exitAstOperand(GrammarAST tree) { }
```

```
protected void enterLabeledElement(GrammarAST tree) { }
protected void exitLabeledElement(GrammarAST tree) { }

protected void enterSubrule(GrammarAST tree) { }
protected void exitSubrule(GrammarAST tree) { }

protected void enterLexerSubrule(GrammarAST tree) { }
protected void exitLexerSubrule(GrammarAST tree) { }

protected void enterBlockSuffix(GrammarAST tree) { }
protected void exitBlockSuffix(GrammarAST tree) { }

protected void enterEbnfSuffix(GrammarAST tree) { }
protected void exitEbnfSuffix(GrammarAST tree) { }

protected void enterAtom(GrammarAST tree) { }
protected void exitAtom(GrammarAST tree) { }

protected void enterBlockSet(GrammarAST tree) { }
protected void exitBlockSet(GrammarAST tree) { }

protected void enterSetElement(GrammarAST tree) { }
protected void exitSetElement(GrammarAST tree) { }

protected void enterBlock(GrammarAST tree) { }
protected void exitBlock(GrammarAST tree) { }

protected void enterRuleref(GrammarAST tree) { }
protected void exitRuleref(GrammarAST tree) { }

protected void enterRange(GrammarAST tree) { }
protected void exitRange(GrammarAST tree) { }

protected void enterTerminal(GrammarAST tree) { }
protected void exitTerminal(GrammarAST tree) { }

protected void enterElementOptions(GrammarAST tree) { }
protected void exitElementOptions(GrammarAST tree) { }

protected void enterElementOption(GrammarAST tree) { }
protected void exitElementOption(GrammarAST tree) { }

 @Override
 public void traceIn(String ruleName, int ruleIndex)  {
  System.err.println("enter "+ruleName+": "+input.LT(1));
 }

 @Override
```

```
 public void traceOut(String ruleName, int ruleIndex)  {
  System.err.println("exit "+ruleName+": "+input.LT(1));
 }
}

grammarSpec
@init {
 enterGrammarSpec($start);
}
@after {
 exitGrammarSpec($start);
}
   :   ^( GRAMMAR ID {grammarName=$ID.text;}
      {discoverGrammar((GrammarRootAST)$GRAMMAR, $ID);}
       prequelConstructs
      {finishPrequels($prequelConstructs.firstOne);}
       rules mode*
      {finishGrammar((GrammarRootAST)$GRAMMAR, $ID);}
   )
 ;

prequelConstructs returns [GrammarAST firstOne=null]
@init {
 enterPrequelConstructs($start);
}
@after {
 exitPrequelConstructs($start);
}
 : {$firstOne=$start;} prequelConstruct+
 |
 ;

prequelConstruct
@init {
 enterPrequelConstructs($start);
}
@after {
 exitPrequelConstructs($start);
}
 :   optionsSpec
   |   delegateGrammars
   |   tokensSpec
   |   channelsSpec
   |   action
   ;

optionsSpec
@init {
```

```
 enterOptionsSpec($start);
}
@after {
 exitOptionsSpec($start);
}
 : ^(OPTIONS option*)
   ;

option
@init {
 enterOption($start);
 boolean rule = inContext("RULE ...");
 boolean block = inContext("BLOCK ...");
}
@after {
 exitOption($start);
}
   :   ^(a=ASSIGN ID v=optionValue)
     {
     if ( block ) blockOption($ID, $v.start); // most specific first
     else if ( rule ) ruleOption($ID, $v.start);
     else grammarOption($ID, $v.start);
     }
   ;

optionValue returns [String v]
@init {
 enterOptionValue($start);
 $v = $start.token.getText();
}
@after {
 exitOptionValue($start);
}
   :   ID
   |   STRING_LITERAL
   |   INT
   ;

delegateGrammars
@init {
 enterDelegateGrammars($start);
}
@after {
 exitDelegateGrammars($start);
}
 :   ^(IMPORT delegateGrammar+)
 ;
```

```
delegateGrammar
@init {
 enterDelegateGrammar($start);
}
@after {
 exitDelegateGrammar($start);
}
   :  ^(ASSIGN label=ID id=ID) {importGrammar($label, $id);}
   |  id=ID      {importGrammar(null, $id);}
   ;

tokensSpec
@init {
 enterTokensSpec($start);
}
@after {
 exitTokensSpec($start);
}
 :  ^(TOKENS_SPEC tokenSpec+)
 ;

tokenSpec
@init {
 enterTokenSpec($start);
}
@after {
 exitTokenSpec($start);
}
 : ID     {defineToken($ID);}
 ;

channelsSpec
@init {
 enterChannelsSpec($start);
}
@after {
 exitChannelsSpec($start);
}
 :  ^(CHANNELS channelSpec+)
 ;

channelSpec
@init {
 enterChannelSpec($start);
}
@after {
 exitChannelSpec($start);
}
```

```
 : ID     {defineChannel($ID);}
 ;

action
@init {
 enterAction($start);
}
@after {
 exitAction($start);
}
 : ^(AT sc=ID? name=ID ACTION) {globalNamedAction($sc, $name, (ActionAST)$ACTION);}
 ;

rules
@init {
 enterRules($start);
}
@after {
 exitRules($start);
}
   : ^(RULES {discoverRules($RULES);} (rule|lexerRule)* {finishRules($RULES);})
   ;

mode
@init {
 enterMode($start);
}
@after {
 exitMode($start);
}
 : ^( MODE ID {currentModeName=$ID.text; modeDef($MODE, $ID);} lexerRule* )
 ;

lexerRule
@init {
 enterLexerRule($start);
 List<GrammarAST> mods = new ArrayList<GrammarAST>();
 currentOuterAltNumber=0;
}
@after {
 exitLexerRule($start);
}
 : ^( RULE TOKEN_REF
   {currentRuleName=$TOKEN_REF.text; currentRuleAST=$RULE;}
   (^(RULEMODIFIERS m=FRAGMENT {mods.add($m);}))?
       {discoverLexerRule((RuleAST)$RULE, $TOKEN_REF, mods, (GrammarAST)input.LT(1));}
       lexerRuleBlock
       {
```

```
      finishLexerRule((RuleAST)$RULE, $TOKEN_REF, $lexerRuleBlock.start);
      currentRuleName=null; currentRuleAST=null;
      }
      )
 ;

rule
@init {
 enterRule($start);
 List<GrammarAST> mods = new ArrayList<GrammarAST>();
 List<GrammarAST> actions = new ArrayList<GrammarAST>(); // track roots
 currentOuterAltNumber=0;
}
@after {
 exitRule($start);
}
 :   ^( RULE RULE_REF {currentRuleName=$RULE_REF.text; currentRuleAST=$RULE;}
   (^(RULEMODIFIERS (m=ruleModifier{mods.add($m.start);})+))?
   ARG_ACTION?
      ret=ruleReturns?
      thr=throwsSpec?
      loc=locals?
      ( opts=optionsSpec
     |   a=ruleAction {actions.add($a.start);}
     )*
      {discoverRule((RuleAST)$RULE, $RULE_REF, mods, (ActionAST)$ARG_ACTION,
          $ret.start!=null?(ActionAST)$ret.start.getChild(0):null,
          $thr.start, $opts.start,
          $loc.start!=null?(ActionAST)$loc.start.getChild(0):null,
          actions, (GrammarAST)input.LT(1));}
      ruleBlock exceptionGroup
      {finishRule((RuleAST)$RULE, $RULE_REF, $ruleBlock.start); currentRuleName=null; currentRuleAST=null;}
      )
   ;

exceptionGroup
@init {
 enterExceptionGroup($start);
}
@after {
 exitExceptionGroup($start);
}
   : exceptionHandler* finallyClause?
   ;

exceptionHandler
@init {
 enterExceptionHandler($start);
```

```
}
@after {
 exitExceptionHandler($start);
}
 : ^(CATCH ARG_ACTION ACTION) {ruleCatch($ARG_ACTION, (ActionAST)$ACTION);}
 ;

finallyClause
@init {
 enterFinallyClause($start);
}
@after {
 exitFinallyClause($start);
}
 : ^(FINALLY ACTION)    {finallyAction((ActionAST)$ACTION);}
 ;

locals
@init {
 enterLocals($start);
}
@after {
 exitLocals($start);
}
 : ^(LOCALS ARG_ACTION)
 ;

ruleReturns
@init {
 enterRuleReturns($start);
}
@after {
 exitRuleReturns($start);
}
 : ^(RETURNS ARG_ACTION)
 ;

throwsSpec
@init {
 enterThrowsSpec($start);
}
@after {
 exitThrowsSpec($start);
}
   : ^(THROWS ID+)
   ;

ruleAction
```

```
@init {
 enterRuleAction($start);
}
@after {
 exitRuleAction($start);
}
 : ^(AT ID ACTION)
 ;

ruleModifier
@init {
 enterRuleModifier($start);
}
@after {
 exitRuleModifier($start);
}
   : PUBLIC
   | PRIVATE
   | PROTECTED
   | FRAGMENT
   ;

lexerRuleBlock
@init {
 enterLexerRuleBlock($start);
}
@after {
 exitLexerRuleBlock($start);
}
   : ^( BLOCK
      ( {
       currentOuterAltRoot = (GrammarAST)input.LT(1);
     currentOuterAltNumber++;
     }
       lexerOuterAlternative
      )+
     )
   ;

ruleBlock
@init {
 enterRuleBlock($start);
}
@after {
 exitRuleBlock($start);
}
   : ^( BLOCK
      ( {
```

```
      currentOuterAltRoot = (GrammarAST)input.LT(1);
    currentOuterAltNumber++;
    }
      outerAlternative
     )+
    )
   ;

lexerOuterAlternative
@init {
 enterLexerOuterAlternative((AltAST)$start);
 discoverOuterAlt((AltAST)$start);
}
@after {
 finishOuterAlt((AltAST)$start);
 exitLexerOuterAlternative((AltAST)$start);
}
 : lexerAlternative
 ;


outerAlternative
@init {
 enterOuterAlternative((AltAST)$start);
 discoverOuterAlt((AltAST)$start);
}
@after {
 finishOuterAlt((AltAST)$start);
 exitOuterAlternative((AltAST)$start);
}
 : alternative
 ;

lexerAlternative
@init {
 enterLexerAlternative($start);
}
@after {
 exitLexerAlternative($start);
}
 : ^(LEXER_ALT_ACTION lexerElements lexerCommand+)
   |   lexerElements
   ;

lexerElements
@init {
 enterLexerElements($start);
}
```

```
@after {
 exitLexerElements($start);
}
  : ^(ALT lexerElement+)
  ;

lexerElement
@init {
 enterLexerElement($start);
}
@after {
 exitLexerElement($start);
}
 : labeledLexerElement
 | lexerAtom
 | lexerSubrule
 |   ACTION      {actionInAlt((ActionAST)$ACTION);}
 |   SEMPRED     {sempredInAlt((PredAST)$SEMPRED);}
 |   ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
 |   ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
 | EPSILON
 ;

labeledLexerElement
@init {
 enterLabeledLexerElement($start);
}
@after {
 exitLabeledLexerElement($start);
}
  :   ^((ASSIGN|PLUS_ASSIGN) ID (lexerAtom|block))
 ;

lexerBlock
@init {
 enterLexerBlock($start);
}
@after {
 exitLexerBlock($start);
}
 : ^(BLOCK optionsSpec? lexerAlternative+)
  ;

lexerAtom
@init {
 enterLexerAtom($start);
}
@after {
```

```
 exitLexerAtom($start);
}
  :   terminal
  |   ^(NOT blockSet)
  |   blockSet
  |   ^(WILDCARD elementOptions)
  |   WILDCARD
  | LEXER_CHAR_SET
  |   range
  |   ruleref
  ;

actionElement
@init {
 enterActionElement($start);
}
@after {
 exitActionElement($start);
}
 : ACTION
 |   ^(ACTION elementOptions)
 |   SEMPRED
 |   ^(SEMPRED elementOptions)
 ;

alternative
@init {
 enterAlternative((AltAST)$start);
 discoverAlt((AltAST)$start);
}
@after {
 finishAlt((AltAST)$start);
 exitAlternative((AltAST)$start);
}
 : ^(ALT elementOptions? element+)
 | ^(ALT elementOptions? EPSILON)
   ;

lexerCommand
@init {
 enterLexerCommand($start);
}
@after {
 exitLexerCommand($start);
}
 : ^(LEXER_ACTION_CALL ID lexerCommandExpr)
      {lexerCallCommand(currentOuterAltNumber, $ID, $lexerCommandExpr.start);}
 | ID
```

```
      {lexerCommand(currentOuterAltNumber, $ID);}
 ;

lexerCommandExpr
@init {
 enterLexerCommandExpr($start);
}
@after {
 exitLexerCommandExpr($start);
}
 : ID
 | INT
 ;

element
@init {
 enterElement($start);
}
@after {
 exitElement($start);
}
 : labeledElement
 | atom
 | subrule
 |   ACTION      {actionInAlt((ActionAST)$ACTION);}
 |   SEMPRED      {sempredInAlt((PredAST)$SEMPRED);}
 |   ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
 |   ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}

 | ^(NOT blockSet)
 | ^(NOT block)
 ;

astOperand
@init {
 enterAstOperand($start);
}
@after {
 exitAstOperand($start);
}
 : atom
 | ^(NOT blockSet)
 | ^(NOT block)
 ;

labeledElement
@init {
 enterLabeledElement($start);
```

```
}
@after {
 exitLabeledElement($start);
}
 : ^((ASSIGN|PLUS_ASSIGN) ID element) {label($start, $ID, $element.start);}
 ;

subrule
@init {
 enterSubrule($start);
}
@after {
 exitSubrule($start);
}
 : ^(blockSuffix block)
 | block
   ;

lexerSubrule
@init {
 enterLexerSubrule($start);
}
@after {
 exitLexerSubrule($start);
}
 : ^(blockSuffix lexerBlock)
 | lexerBlock
   ;

blockSuffix
@init {
 enterBlockSuffix($start);
}
@after {
 exitBlockSuffix($start);
}
   : ebnfSuffix
   ;

ebnfSuffix
@init {
 enterEbnfSuffix($start);
}
@after {
 exitEbnfSuffix($start);
}
 : OPTIONAL
  | CLOSURE
```

```
  | POSITIVE_CLOSURE
 ;

atom
@init {
 enterAtom($start);
}
@after {
 exitAtom($start);
}
 : ^(DOT ID terminal)
 | ^(DOT ID ruleref)
  | ^(WILDCARD elementOptions) {wildcardRef($WILDCARD);}
  | WILDCARD     {wildcardRef($WILDCARD);}
  |   terminal
  | blockSet
  |   ruleref
  ;

blockSet
@init {
 enterBlockSet($start);
}
@after {
 exitBlockSet($start);
}
 : ^(SET setElement+)
 ;

setElement
@init {
 enterSetElement($start);
}
@after {
 exitSetElement($start);
}
 : ^(STRING_LITERAL elementOptions)    {stringRef((TerminalAST)$STRING_LITERAL);}
 | ^(TOKEN_REF elementOptions)   {tokenRef((TerminalAST)$TOKEN_REF);}
 | STRING_LITERAL                 {stringRef((TerminalAST)$STRING_LITERAL);}
 | TOKEN_REF                   {tokenRef((TerminalAST)$TOKEN_REF);}
 | ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
  {
  stringRef((TerminalAST)$a);
  stringRef((TerminalAST)$b);
  }
     |      LEXER_CHAR_SET
 ;
```

```
block
@init {
 enterBlock($start);
}
@after {
 exitBlock($start);
}
   : ^(BLOCK optionsSpec? ruleAction* ACTION? alternative+)
   ;

ruleref
@init {
 enterRuleref($start);
}
@after {
 exitRuleref($start);
}
   : ^(RULE_REF arg=ARG_ACTION? elementOptions?)
    {
    ruleRef($RULE_REF, (ActionAST)$ARG_ACTION);
    if ( $arg!=null ) actionInAlt((ActionAST)$arg);
    }
   ;

range
@init {
 enterRange($start);
}
@after {
 exitRange($start);
}
   : ^(RANGE STRING_LITERAL STRING_LITERAL)
   ;

terminal
@init {
 enterTerminal($start);
}
@after {
 exitTerminal($start);
}
   :  ^(STRING_LITERAL elementOptions)
         {stringRef((TerminalAST)$STRING_LITERAL);}
   | STRING_LITERAL    {stringRef((TerminalAST)$STRING_LITERAL);}
   | ^(TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
   | TOKEN_REF        {tokenRef((TerminalAST)$TOKEN_REF);}
   ;
```

```
elementOptions
@init {
 enterElementOptions($start);
}
@after {
 exitElementOptions($start);
}
  : ^(ELEMENT_OPTIONS elementOption[(GrammarASTWithOptions)$start.getParent()]*)
  ;

elementOption[GrammarASTWithOptions t]
@init {
 enterElementOption($start);
}
@after {
 exitElementOption($start);
}
  : ID        {elementOption(t, $ID, null);}
  |  ^(ASSIGN id=ID v=ID)   {elementOption(t, $id, $v);}
  |  ^(ASSIGN ID v=STRING_LITERAL) {elementOption(t, $ID, $v);}
  |  ^(ASSIGN ID v=ACTION)   {elementOption(t, $ID, $v);}
  |  ^(ASSIGN ID v=INT)    {elementOption(t, $ID, $v);}
  ;
```

Found in path(s):
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/parse/GrammarTreeVisitor.g
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*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

tree grammar ATNBuilder;
options {
 language     = Java;
 tokenVocab   = ANTLRParser;
 ASTLabelType = GrammarAST;
// filter       = true;
}

// Include the copyright in this source and also the generated source
@header {
/*
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*/
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
```

```
import org.antlr.v4.tool.ast.*;
import org.antlr.v4.automata.ATNFactory;
}

@members {
  ATNFactory factory;
  public ATNBuilder(TreeNodeStream input, ATNFactory factory) {
   this(input);
   this.factory = factory;
  }
}

dummy : block[null] ; // avoid error about no start rule

ruleBlock[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {
  List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();
  int alt = 1;
  factory.setCurrentOuterAlt(alt);
}
  : ^(BLOCK
        (^(OPTIONS .*))?
        (   a=alternative
           {alts.add($a.p); factory.setCurrentOuterAlt(++alt);}
        )+
     )
   {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
  ;

block[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();}
  : ^(BLOCK (^(OPTIONS .*))? (a=alternative {alts.add($a.p);})+)
   {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
  ;

alternative returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> els = new ArrayList<ATNFactory.Handle>();}
  : ^(LEXER_ALT_ACTION a=alternative lexerCommands)
     {$p = factory.lexerAltCommands($a.p,$lexerCommands.p);}
  | ^(ALT elementOptions? EPSILON)       {$p = factory.epsilon($EPSILON);}
  |   ^(ALT elementOptions? (e=element {els.add($e.p);})+) {$p = factory.alt(els);}
  ;

lexerCommands returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> cmds = new ArrayList<ATNFactory.Handle>();}
  :   (c=lexerCommand {if ($c.cmd != null) cmds.add($c.cmd);})+
      {
      $p = factory.alt(cmds);
```

```
    }
  ;

lexerCommand returns [ATNFactory.Handle cmd]
 : ^(LEXER_ACTION_CALL ID lexerCommandExpr)
     {$cmd = factory.lexerCallCommand($ID, $lexerCommandExpr.start);}
 | ID
     {$cmd = factory.lexerCommand($ID);}
 ;

lexerCommandExpr
 : ID
 | INT
 ;

element returns [ATNFactory.Handle p]
 : labeledElement    {$p = $labeledElement.p;}
 | atom      {$p = $atom.p;}
 | subrule      {$p = $subrule.p;}
 |   ACTION      {$p = factory.action((ActionAST)$ACTION);}
 |   SEMPRED      {$p = factory.sempred((PredAST)$SEMPRED);}
 |   ^(ACTION .)     {$p = factory.action((ActionAST)$ACTION);}
 |   ^(SEMPRED .)    {$p = factory.sempred((PredAST)$SEMPRED);}
  | ^(NOT b=blockSet[true])  {$p = $b.p;}
  | LEXER_CHAR_SET     {$p = factory.charSetLiteral($start);}
 ;

astOperand returns [ATNFactory.Handle p]
 : atom      {$p = $atom.p;}
 | ^(NOT blockSet[true])  {$p = $blockSet.p;}
 ;

labeledElement returns [ATNFactory.Handle p]
 : ^(ASSIGN ID element)     {$p = factory.label($element.p);}
 | ^(PLUS_ASSIGN ID element)   {$p = factory.listLabel($element.p);}
 ;

subrule returns [ATNFactory.Handle p]
 : ^(OPTIONAL block[$start])   {$p = $block.p;}
 | ^(CLOSURE block[$start])   {$p = $block.p;}
 | ^(POSITIVE_CLOSURE block[$start]) {$p = $block.p;}
 |  block[null]       {$p = $block.p;}
  ;

blockSet[boolean invert] returns [ATNFactory.Handle p]
@init {List<GrammarAST> alts = new ArrayList<GrammarAST>();}
 : ^(SET (setElement {alts.add($setElement.start);})+) {$p = factory.set($start, alts, $invert);}
 ;
```

```
/** Don't combine with atom otherwise it will build spurious ATN nodes */
setElement
 : ^(STRING_LITERAL .)
 | ^(TOKEN_REF .)
 | STRING_LITERAL
 | TOKEN_REF
 | ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
   |   LEXER_CHAR_SET
 ;

atom returns [ATNFactory.Handle p]
 : range     {$p = $range.p;}
 | ^(DOT ID terminal)  {$p = $terminal.p;}
 | ^(DOT ID ruleref)  {$p = $ruleref.p;}
   | ^(WILDCARD .)   {$p = factory.wildcard($start);}
   | WILDCARD    {$p = factory.wildcard($start);}
   | blockSet[false]   {$p = $blockSet.p;}
   |   terminal    {$p = $terminal.p;}
   |   ruleref     {$p = $ruleref.p;}
   ;

ruleref returns [ATNFactory.Handle p]
   : ^(RULE_REF ARG_ACTION? ^(ELEMENT_OPTIONS .*))  {$p = factory.ruleRef($RULE_REF);}
   | ^(RULE_REF ARG_ACTION?)        {$p = factory.ruleRef($RULE_REF);}
   | RULE_REF          {$p = factory.ruleRef($RULE_REF);}
   ;

range returns [ATNFactory.Handle p]
   : ^(RANGE a=STRING_LITERAL b=STRING_LITERAL) {$p = factory.range($a,$b);}
   ;

terminal returns [ATNFactory.Handle p]
   :  ^(STRING_LITERAL .)   {$p = factory.stringLiteral((TerminalAST)$start);}
   | STRING_LITERAL    {$p = factory.stringLiteral((TerminalAST)$start);}
   | ^(TOKEN_REF ARG_ACTION .) {$p = factory.tokenRef((TerminalAST)$start);}
   | ^(TOKEN_REF .)    {$p = factory.tokenRef((TerminalAST)$start);}
   | TOKEN_REF     {$p = factory.tokenRef((TerminalAST)$start);}
   ;

elementOptions
 : ^(ELEMENT_OPTIONS elementOption*)
 ;

elementOption
 : ID
 | ^(ASSIGN ID ID)
 | ^(ASSIGN ID STRING_LITERAL)
```

```
| ^(ASSIGN ID ACTION)
| ^(ASSIGN ID INT)
;
```

Found in path(s):
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/parse/ATNBuilder.g
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```
/*
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*/

SwiftTypeInitMap ::= [
 "Int":"0",
 "Int64":"0",
 "Float":"0.0",
 "Double":"0.0",
 "Bool":"false",
 default:"nil" // anything other than a primitive type is an object
]
SwiftTypeMap ::= [
```

```
 "int":"Int",
 "float":"Float",
 "long":"Int64",
 "double":"Double",
 "bool":"Bool",
 "boolean":"Bool",
 default : key
]
// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions,contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<namedActions.header>
import Antlr4

<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
* This interface defines a complete listener for a parse tree produced by
* {@link <file.parserName>}.
*/
public protocol <file.grammarName>Listener: ParseTreeListener {
 <file.listenerNames:{lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
* Enter a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
* Enter a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
- Parameters:
  - ctx: the parse tree
*/
func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context)
/**
<if(file.listenerLabelRuleNames.(lname))>
```

```
* Exit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
* Exit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
- Parameters:
  - ctx: the parse tree
*/
func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context)}; separator="\n">
}
>>

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>

import Antlr4


/**
* This class provides an empty implementation of {@link <file.grammarName>Listener},
* which can be extended to create a listener which only needs to handle a subset
* of the available methods.
*/
open class <file.grammarName>BaseListener: <file.grammarName>Listener {
   public init() { \}
 <file.listenerNames:{lname |

/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
open func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context) { \}
/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
open func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context) { \}};
separator="\n">

 /**
  * {@inheritDoc\}
  *
```

```
 * \<p>The default implementation does nothing.\</p>
 */
 open func enterEveryRule(_ ctx: ParserRuleContext) { }
 /**
 * {@inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
 open func exitEveryRule(_ ctx: ParserRuleContext) { }
 /**
 * {@inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
 open func visitTerminal(_ node: TerminalNode) { }
 /**
 * {@inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
 open func visitErrorNode(_ node: ErrorNode) { }
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
* This interface defines a complete generic visitor for a parse tree produced
* by {@link <file.parserName>}.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
open class <file.grammarName>Visitor\<T>: ParseTreeVisitor\<T> {
 <file.visitorNames:{lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
* Visit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.visitorLabelRuleNames.(lname)>\}.
<else>
* Visit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
```

```
- Parameters:
 - ctx: the parse tree
- returns: the visitor result
*/
open func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context) -> T{
 fatalError(#function + " must be overridden")
\}
}; separator="\n">
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
* This class provides an empty implementation of {@link <file.grammarName>Visitor},
* which can be extended to create a visitor which only needs to handle a subset
* of the available methods.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
open class <file.grammarName>BaseVisitor\<T>: AbstractParseTreeVisitor\<T> {
 <file.visitorNames:{lname |
/**
* {@inheritDoc\}
*
* \<p>The default implementation returns the result of calling
* {@link #visitChildren\} on {@code ctx\}.\</p>
*/
open func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context) -> T? { return
visitChildren(ctx) \}}; separator="\n">
}
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName; format="java-escape"> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>
```

```
Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<!//@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})!>
open class <parser.name>: <superClass; null="Parser"> {

 internal static var _decisionToDFA: [DFA] = {
        var decisionToDFA = [DFA]()
        let length = <parser.name>._ATN.getNumberOfDecisions()
        for i in 0..\<length {
         <!// decisionToDFA[i] = DFA(<parser.name>._ATN.getDecisionState(i)!, i);!>
          decisionToDFA.append(DFA(<parser.name>._ATN.getDecisionState(i)!, i))
         }
         return decisionToDFA
    }()
 internal static let _sharedContextCache: PredictionContextCache = PredictionContextCache()
 <if(parser.tokens)>
 public enum Tokens: Int {
  case EOF = -1, <parser.tokens:{k | <k> = <parser.tokens.(k)>}; separator=", ", wrap, anchor>
 }
      <endif>
 public static let <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>
 public static let ruleNames: [String] = [
  <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
 ]

 <vocabulary(parser.literalNames, parser.symbolicNames)>

 override
 open func getGrammarFileName() -> String { return "<parser.grammarFileName; format="java-escape">" }

 override
 open func getRuleNames() -> [String] { return <parser.name>.ruleNames }

 override
 open func getSerializedATN() -> String { return <parser.name>._serializedATN }

 override
 open func getATN() -> ATN { return <parser.name>._ATN }

 <namedActions.members>
 <parser:(ctor)()>
 <funcs; separator="\n">

<if(sempredFuncs)>
   override
 open func sempred(_ _localctx: RuleContext?, _ ruleIndex: Int,  _ predIndex: Int)throws -> Bool {
  switch (ruleIndex) {
  <parser.sempredFuncs.values:{f|
case  <f.ruleIndex>:
```

```
 return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex)}; separator="\n">
    default: return true
  }
  <!return true;!>
 }
 <sempredFuncs.values; separator="\n">
<endif>

 <atn>
  public static let _serializedATN : String = <parser.name>ATN().jsonString
  public static let _ATN: ATN = ATNDeserializer().deserializeFromJson(_serializedATN)
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static let _LITERAL_NAMES: [String?] = [
 <literalNames:{t | <t>}; null="nil", separator=", ", wrap, anchor>
]
private static let _SYMBOLIC_NAMES: [String?] = [
 <symbolicNames:{t | <t>}; null="nil", separator=", ", wrap, anchor>
]
public static let VOCABULARY: Vocabulary = Vocabulary(_LITERAL_NAMES, _SYMBOLIC_NAMES)

/**
* @deprecated Use {@link #VOCABULARY} instead.
*/
//@Deprecated
public let tokenNames: [String?]? = {
   let length = _SYMBOLIC_NAMES.count
   var tokenNames = [String?](repeating: nil, count: length)
 for i in 0..\<length {
  var name = VOCABULARY.getLiteralName(i)
  if name == nil {
   name = VOCABULARY.getSymbolicName(i)
  }
  if name == nil {
   name = "\<INVALID>"
  }
  tokenNames[i] = name
 }
 return tokenNames
}()

override
<!//@Deprecated!>
open func getTokenNames() -> [String?]? {
 return tokenNames
}
```

```
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
override
open func action(_ _localctx: RuleContext?,  _ ruleIndex: Int, _ actionIndex: Int) throws {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex>:
 <f.name>_action((_localctx as <f.ctxType>?), actionIndex)
  }; separator="\n">
 default: break
 }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
override
open func sempred(_ _localctx: RuleContext?, _  ruleIndex: Int,_   predIndex: Int) throws -> Bool{
 switch (ruleIndex) {
 <recog.sempredFuncs.values:{f|
case <f.ruleIndex>:
 return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex)}; separator="\n">
 default: return true
 }
 <!return true;!>
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<

open override func getVocabulary() -> Vocabulary {
   return <p.name>.VOCABULARY
}

public override init(_ input:TokenStream)throws {
   RuntimeMetaData.checkVersion("4.6", RuntimeMetaData.VERSION)
 try super.init(input)
 _interp = ParserATNSimulator(self,<p.name>._ATN,<p.name>._decisionToDFA,
<parser.name>._sharedContextCache)
}
>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
```

```
RuleActionFunction(r, actions) ::= <<
private func <r.name>_action(_ _localctx: <r.ctxType>?,  _ actionIndex: Int) {
 switch (actionIndex) {
 <actions:{index|
case <index>:
 <actions.(index)>
  }; separator="\n">
  default: break
 }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private func <r.name>_sempred(_ _localctx: <r.ctxType>!,  _ predIndex: Int) throws -> Bool {
 switch (predIndex) {
 <actions:{index|
   case <index>:return <actions.(index)>}; separator="\n">
     default: return true
 }
 <!return true;!>
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<
<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">
@discardableResult
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>open func
<endif><currentRule.name>(<if(first(args))>_ <endif><args; separator=", _">) throws -> <currentRule.ctxType> {
 var _localctx: <currentRule.ctxType> = <currentRule.ctxType>(_ctx, getState()<currentRule.args:{a | ,
<a.name>}>)
 try enterRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>)
 <namedActions.init>
 <locals; separator="\n">
 defer {
    <finallyAction>
    try! exitRule()
  }
 do {
<if(currentRule.hasLookaheadBlock)>
  var _alt:Int
<endif>
   <code>
  <postamble; separator="\n">
```

```
  <namedActions.after>
 }
 <if(exceptions)>
 <exceptions; separator="\n">
 <else>
 catch ANTLRException.recognition(let re) {
  _localctx.exception = re
  _errHandler.reportError(self, re)
  try _errHandler.recover(self, re)
 }
 <endif>

 return _localctx
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif> func <currentRule.name>(
<if(first(args))>_ <endif><args; separator=", _">) throws -> <currentRule.ctxType>    {
 return try <currentRule.name>(0<currentRule.args:{a | , <a.name>}>)
}
@discardableResult
private func <currentRule.name>(_ _p<args:{a | , <a>}>: Int) throws -> <currentRule.ctxType>    {
 let _parentctx: ParserRuleContext? = _ctx
 var _parentState: Int = getState()
 var _localctx: <currentRule.ctxType> = <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | ,
<a.name>}>)
 var  _prevctx: <currentRule.ctxType> = _localctx
 var _startState: Int = <currentRule.startState>
 try enterRecursionRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p)
 <namedActions.init>
 <locals; separator="\n">
 defer {
    <finallyAction>
    try! unrollRecursionContexts(_parentctx)
  }
 do {
<if(currentRule.hasLookaheadBlock)>
  var _alt: Int
<endif>
  <code>
  <postamble; separator="\n">
```

```
 <namedActions.after>
 }
 catch ANTLRException.recognition(let re) {
  _localctx.exception = re
  _errHandler.reportError(self, re)
  try _errHandler.recover(self, re)
 }

 return _localctx;
}
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx =  <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
try enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<!//{!>
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
<!//}!>
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">
switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!) {
<choice.altLook,alts:{look,alt | <cases(ttypes=look)>
 <alt>
 break}; separator="\n">
default:
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
 <alt>
 break}; separator="\n">
```

```
default:
 <error>
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<preamble; separator="\n">
if (<expr>) {
 <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<preamble; separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 setState(<choice.loopBackStateNumber>)
 try _errHandler.sync(self)
 <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.blockStartStateNumber>) <! alt block decision !>
try _errHandler.sync(self)
<preamble; separator="\n">
repeat {
 <alts; separator="\n">
 setState(<choice.stateNumber>); <! loopback/exit decision !>
 try _errHandler.sync(self)
 <iteration>
} while (<loopExpr>)
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">
switch(try getInterpreter().adaptivePredict(_input,<choice.decision>, _ctx)) {
<alts:{alt |
```

```
case <i>:
 <alt>
 break}; separator="\n">
default: break
}
>>

OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
switch (try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break}; separator="\n">
default: break
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
_alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
while (_alt != <choice.exitAlt> && _alt != ATN.INVALID_ALT_NUMBER) {
 if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
  <iteration>
  <alts> <! should only be one !>
 }
 setState(<choice.loopBackStateNumber>)
 try _errHandler.sync(self)
 _alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
}
>>

PlusBlock(choice, alts, error) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
try _errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
repeat {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break}; separator="\n">
 default:
  <error>
 }
 setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
```

```
 try _errHandler.sync(self)
 _alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
} while (_alt != <choice.exitAlt> && _alt !=  ATN.INVALID_ALT_NUMBER)
>>

Sync(s) ::= "sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw try ANTLRException.recognition(e: NoViableAltException(self))"

TestSetInline(s) ::= <<
<!<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">!>
//closure
{ () -> Bool in
    <if(rest(s.bitsets))>var<else>let<endif> testSet: Bool = <first(s.bitsets):{bits |
<if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s, bits)><endif>}>
        <rest(s.bitsets):{bits | testSet = testSet || <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s,
bits)><else><bitsetInlineComparison(s, bits)><endif>}; separator="\n">
    return testSet
}()
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <<
<!(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1 \<\< <offsetShift(s.varName, bits.shift)>) &
(<bits.ttypes:{ttype | (1 \<\< <offsetShift(ttype, bits.shift)>)}; separator=" | ">)) != 0)!>
{  () -> Bool in
   <! let test: Bool = (<testShiftInRange({<offsetShift(s.varName, bits.shift)>})>)!>
  <!var temp: Int64 =  Int64(<offsetShift(s.varName, bits.shift)>)!>
  <!temp = (temp \< 0) ? (64 + (temp % 64 )) : (temp % 64)!>
  <!let test1: Int64 = (Int64(1) \<\< temp)!>
  <!var test2: Int64 = (<first(bits.ttypes):{ttype | Utils.bitLeftShift(<offsetShift(parserName(ttype), bits.shift)>)}>)!>
  <!<rest(bits.ttypes):{ttype | test2 = test2 | Utils.bitLeftShift(<offsetShift(parserName(ttype), bits.shift)>)};
separator="\n">!>
  let testArray: [Int] = [<s.varName>, <bits.ttypes:{ttype |<parserName(ttype)>}; separator=",">]
  <!var test2: Int64 = Utils.testBitLeftShiftArray(testArray)!>
   return  Utils.testBitLeftShiftArray(testArray, <bits.shift>)
}()
>>

isZero ::= [
"0": true,
default: false
```

```
]
parserName(ttype) ::= <%
<parser.name>.Tokens.<ttype>.rawValue
%>
offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName> == <parser.name>.Tokens.<ttype>.rawValue}; separator=" || ">
%>

cases(ttypes) ::= <<
<trunc(ttypes): {t | case .<t>:fallthrough}  ; separator="\n">
<last(ttypes): {t | case .<t>:}  ; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
setState(<r.stateNumber>)
<if(r.labels)>
try {
  let assignmentValue = try
<r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>)
  <r.labels:{l | <labelref(l)> = assignmentValue} ; separator="\n">
    }()
<else>try
<r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>)<endif>
>>

MatchToken(m) ::= <<
setState(<m.stateNumber>)
<if(m.labels)>
try {
  let assignmentValue = try match(<parser.name>.Tokens.<m.name>.rawValue)
  <m.labels:{l | <labelref(l)> = assignmentValue}  ; separator="\n">
    }()
<else>try match(<parser.name>.Tokens.<m.name>.rawValue)<endif>
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
setState(<m.stateNumber>)
<if(m.labels)><m.labels:{l | <labelref(l)> = }>try _input.LT(1)<endif>
<capture>
```

```
if (<if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>)) {
 <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>try _errHandler.recoverInline(self)<if(m.labels)> as
Token<endif>
}
else {
 _errHandler.reportMatch(self)
 try consume()
}
>>

Wildcard(w) ::= <<
setState(<w.stateNumber>)
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>try matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
setState(<p.stateNumber>)
if (!(<chunks>)) {
   throw try ANTLRException.recognition(e:FailedPredicateException(self, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>))
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "skip()"
LexerMoreCommand()  ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg)      ::= "_type = <arg>"
LexerChannelCommand(arg)   ::= "_channel = <arg>"
LexerModeCommand(arg)      ::= "_mode = <arg>"
LexerPushModeCommand(arg)  ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
```

```
ArgRef(a) ::= "_localctx.<a.name>"
LocalRef(a) ::= "_localctx.<a.name>"
RetValueRef(a) ::= "_localctx.<a.name>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getText()! : \"\")"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getType() : 0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getLine() : 0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getCharPositionInLine() : 0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getChannel() : 0)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getTokenIndex() : 0)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>.<t.label> != nil ? Int(<ctx(t)>.<t.label>!.getText()!) : 0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.start?.description ?? \"\") : \"\")"
RulePropertyRef_stop(r)  ::= "(<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.stop?.description ?? \"\") : \"\")"
RulePropertyRef_text(r)  ::= "(<ctx(r)>.<r.label> != nil ? try
_input.getText(<ctx(r)>.<r.label>!.start,<ctx(r)>.<r.label>!.stop) : \"\")"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "self"

ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r)  ::= "_localctx.stop"
ThisRulePropertyRef_text(r)  ::= "(try _input.getText(_localctx.start, try _input.LT(-1)))"
ThisRulePropertyRef_ctx(r)  ::= "_localctx"
ThisRulePropertyRef_parser(r)  ::= "self"

NonLocalAttrRef(s)   ::= "((<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.name>"
SetNonLocalAttr(s, rhsChunks)   ::=
 "((<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "<t.name>: <SwiftTypeMap.(TokenLabelType())>!"
TokenTypeDecl(t) ::= "var <t.name>: Int = 0"
TokenListDecl(t) ::= "<t.name>: Array\<Token> = Array\<Token>()"
RuleContextDecl(r) ::= "<r.name>: <r.ctxName>!"
RuleContextListDecl(rdecl) ::= "<rdecl.name>:Array\<<rdecl.ctxName>> = Array\<<rdecl.ctxName>>()"

ContextTokenGetterDecl(t)      ::=
   "open func <t.name>() -> TerminalNode? { return getToken(<parser.name>.Tokens.<t.name>.rawValue, 0) }"
```

```
ContextTokenListGetterDecl(t)  ::=
   "open func <t.name>() -> Array\<TerminalNode> { return getTokens(<parser.name>.Tokens.<t.name>.rawValue)
}"
ContextTokenListIndexedGetterDecl(t)  ::= <<
open func <t.name>(_ i:Int) -> TerminalNode?{
 return getToken(<parser.name>.Tokens.<t.name>.rawValue, i)
}
>>
ContextRuleGetterDecl(r)       ::= <<
open func <r.name>() -> <r.ctxName>? {
 return getRuleContext(<r.ctxName>.self,0)
}
>>
ContextRuleListGetterDecl(r)   ::= <<
open func <r.name>() -> Array\<<r.ctxName>\> {
 return getRuleContexts(<r.ctxName>.self)
}
>>
ContextRuleListIndexedGetterDecl(r)   ::= <<
open func <r.name>(_ i: Int) -> <r.ctxName>? {
 return getRuleContext(<r.ctxName>.self,i)
}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = try _input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = try _input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,
        superClass={ParserRuleContext}) ::= <<
open class
<struct.name>:<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>,
<interfaces; separator=", "><endif> {
 <attrs:{a | public var <a>}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 <! <if(ctorAttrs)>public init(_ parent: ParserRuleContext,_ invokingState: Int) { super.init(parent, invokingState)
}<endif> !>
```

```
 <if(ctorAttrs)>
 public convenience init(_ parent: ParserRuleContext?, _ invokingState: Int<ctorAttrs:{a | , _ <a>}>) {
 self.init(parent, invokingState)
 <struct.ctorAttrs:{a | self.<a.name> = <a.name>;}; separator="\n">
 }
<endif>
 open override func getRuleIndex() -> Int { return <parser.name>.RULE_<struct.derivedFromName> }
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 <!public init() { }!>
 public  func copyFrom(_ ctx: <struct.name>) {
 super.copyFrom(ctx)
 <struct.attrs:{a | self.<a.name> = ctx.<a.name>;}; separator="\n">
 }
<endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
public  final class <struct.name>: <currentRule.name; format="cap">Context {
 <attrs:{a | public var <a>}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 public init(_ ctx: <currentRule.name; format="cap">Context) {
 super.init()
 copyFrom(ctx)
 }
 <dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
override
open func <if(method.isEnter)>enter<else>exit<endif>Rule(_ listener: ParseTreeListener) {
 if listener is <parser.grammarName>Listener {
  (listener as!
<parser.grammarName>Listener).<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName;
format="cap">(self)
 }
}
>>

VisitorDispatchMethod(method) ::= <<
override
open func accept\<T>(_ visitor: ParseTreeVisitor\<T>) -> T? {
 if visitor is <parser.grammarName>Visitor {
     return (visitor as! <parser.grammarName>Visitor\<T>).visit<struct.derivedFromName; format="cap">(self)
 }else if visitor is <parser.grammarName>BaseVisitor {
```

```
    return (visitor as! <parser.grammarName>BaseVisitor\<T>).visit<struct.derivedFromName; format="cap">(self)
  }
 else {
     return visitor.visitChildren(self)
 }
}
>>

AttributeDecl(d) ::= "<d.name>: <SwiftTypeMap.(d.type)><if(d.initValue)> = <d.initValue><else>!<endif>"

/** If we don't know location of label def x, use this template (_localctx as! <x.ctx.name> */
labelref(x) ::= "<if(!x.isLocal)>_localctx.castdown(<x.ctx.name>.self).<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr?    */
ctx(actionChunk) ::= "_localctx.castdown(<actionChunk.ctx.name>.self)"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "precpred(_ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>"
recRuleSetStopToken()                ::= "_ctx!.stop = try _input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = <ctxName>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.append(_prevctx)
<else>
_localctx.<label> = _prevctx
<endif>
<endif>
<if(label)>_localctx.<label> = _prevctx;<endif>
try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
_localctx = <currentAltLabel; format="cap">Context(  <ruleName; format="cap">Context(_parentctx,
_parentState))
<if(label)>
<if(isListLabel)>
(_localctx as! <currentAltLabel; format="cap">Context).<label>.append(_prevctx)
<else>
(_localctx as! <currentAltLabel; format="cap">Context).<label> = _prevctx
<endif>
<endif>
try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)
>>

recRuleReplaceContext(ctxName) ::= <<
```

```
_localctx = <ctxName>Context(_localctx)
_ctx = _localctx
_prevctx = _localctx
>>

recRuleSetPrevCtx() ::= <<
if _parseListeners != nil {
  try triggerExitRuleEvent()
}
_prevctx = _localctx
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<if(lexerFile.genPackage)>
<!package <lexerFile.genPackage>;!>
<endif>
<namedActions.header>
import Antlr4

<lexer>
>>
Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
open class <lexer.name>: <superClass; null="Lexer"> {
 internal static var _decisionToDFA: [DFA] = {
        var decisionToDFA = [DFA]()
        let length = <lexer.name>._ATN.getNumberOfDecisions()
        for i in 0..\<length {
          <! decisionToDFA[i] = DFA(<lexer.name>._ATN.getDecisionState(i)!, i);!>
            decisionToDFA.append(DFA(<lexer.name>._ATN.getDecisionState(i)!, i))
        }
         return decisionToDFA
    }()

 internal static let _sharedContextCache:PredictionContextCache = PredictionContextCache()
 public static let <lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>
 <if(lexer.channels)>
    public let <lexer.channels:{k | <k>=<lexer.channels.(k)>}; separator=", ", wrap, anchor>
 <endif>
 <rest(lexer.modes):{m| public static let <m>: Int = <i>;}; separator="\n">
 public static let modeNames: [String] = [
  <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
 ]

 public static let ruleNames: [String] = [
  <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
 ]
```

```
<vocabulary(lexer.literalNames, lexer.symbolicNames)>

<namedActions.members>
  open override func getVocabulary() -> Vocabulary {
     return <lexer.name>.VOCABULARY
  }

public override init(_ input: CharStream) {
    RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION)
 super.init(input)
 _interp = LexerATNSimulator(self, <lexer.name>._ATN, <lexer.name>._decisionToDFA,
<lexer.name>._sharedContextCache)
}

override
open func getGrammarFileName() -> String { return "<lexer.grammarFileName>" }

  override
open func getRuleNames() -> [String] { return <lexer.name>.ruleNames }

override
open func getSerializedATN() -> String { return <lexer.name>._serializedATN }

override
open func getModeNames() -> [String] { return <lexer.name>.modeNames }

override
open func getATN() -> ATN { return <lexer.name>._ATN }

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
<atn>
  public static let _serializedATN: String = <lexer.name>ATN().jsonString
public static let _ATN: ATN = ATNDeserializer().deserializeFromJson(_serializedATN)
}
>>

/** Don't need to define anything. The tool generates a XParserATN.swift file (and same for lexer)
*  which is referenced from static field _serializedATN.  This json string is passed to
*  deserializeFromJson(). Note this is not the "serialization as array of ints" that other targets
*  do. It is more or less the output of ATNPrinter which gets read back in.
*/
SerializedATN(model) ::= <<
>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
```

initValue(typeName) ::= <<
<SwiftTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".swift"

Found in path(s):
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/templates/codegen/Swift/Swift.stg

1.651 netty 3.10.6.Final

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* /opt/cola/permits/1221016784_1635406620.17/0/netty-resolver-4-1-69-final-sources-jar/io/netty/resolver/RoundRobinInetAddressResolver.java
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*/

Found in path(s):
* /opt/cola/permits/1221016784_1635406620.17/0/netty-resolver-4-1-69-final-sources-jar/io/netty/resolver/AddressResolver.java
* /opt/cola/permits/1221016784_1635406620.17/0/netty-resolver-4-1-69-final-sources-jar/io/netty/resolver/InetSocketAddressResolver.java
* /opt/cola/permits/1221016784_1635406620.17/0/netty-resolver-4-1-69-final-sources-jar/io/netty/resolver/DefaultNameResolver.java
* /opt/cola/permits/1221016784_1635406620.17/0/netty-resolver-4-1-69-final-sources-jar/io/netty/resolver/InetNameResolver.java
* /opt/cola/permits/1221016784_1635406620.17/0/netty-resolver-4-1-69-final-sources-jar/io/netty/resolver/AbstractAddressResolver.java
* /opt/cola/permits/1221016784_1635406620.17/0/netty-resolver-4-1-69-final-sources-jar/io/netty/resolver/HostsFileParser.java
* /opt/cola/permits/1221016784_1635406620.17/0/netty-resolver-4-1-69-final-sources-jar/io/netty/resolver/HostsFileEntriesResolver.java
* /opt/cola/permits/1221016784_1635406620.17/0/netty-resolver-4-1-69-final-sources-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
* /opt/cola/permits/1221016784_1635406620.17/0/netty-resolver-4-1-69-final-sources-jar/io/netty/resolver/DefaultAddressResolverGroup.java
* /opt/cola/permits/1221016784_1635406620.17/0/netty-resolver-4-1-69-final-sources-jar/io/netty/resolver/CompositeNameResolver.java

1.654 error_prone_annotations 2.5.1

1.654.1 Available under license :

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Found in path(s):
* /opt/cola/permits/1146221464_1616477529.06/0/error-prone-annotations-2-5-1-jar/META-INF/maven/com.google.errorprone/error_prone_annotations/pom.xml

1.655 aws-java-sdk-directconnect 1.12.199

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1.656 aws-java-sdk-alexaforbusiness 1.12.199

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1.657 aws-query-protocol 2.17.85

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1.670 d-bus 1.10.24-15.el7

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.6.1	1.6	2001	CNRI	yes (2)
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes

2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
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2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
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* the License.
*/
/**
* Holder for web specializations of methods of {@code Doubles}. Intended to be empty for regular
* version.
*/
```

Found in path(s):
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/DoublesMethodsForWeb.java
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*/
/**
* Holder for web specializations of methods of {@code Ints}. Intended to be empty for regular
* version.
*/
```

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jar/com/google/common/collect/CollectSpliterators.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/package-info.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingMapEntry.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Sets.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Multimaps.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/BiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Multisets.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingQueue.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingConcurrentMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ReverseNaturalOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SortedSetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/NullsFirstOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SingletonImmutableSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/collect/EnumHashBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Multiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingListIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Ordering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/TreeMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/LinkedListMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractSortedSetMultimap.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/HashMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractSetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableList.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/NullsLastOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractBiMap.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/MutableClassToInstanceMap.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/NaturalOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Lists.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/LinkedHashMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ArrayListMultimap.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractMapEntry.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/LexicographicalOrdering.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingObject.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/MapDifference.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Primitives.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/FinalizableWeakReference.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ExecutionList.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/DeadEvent.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/Files.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/LineReader.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Predicate.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/package-info.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/FinalizableReferenceQueue.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Objects.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Charsets.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/Subscribe.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/MultiInputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/Flushables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Supplier.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/FinalizableReference.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Interners.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/Closeables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/EventBus.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/FinalizablePhantomReference.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/LineBuffer.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Suppliers.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/DirectExecutor.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/EnumMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/HashBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/AllowConcurrentEvents.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/LittleEndianDataInputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Defaults.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/CountingOutputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ListenableFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/AbstractIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Functions.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/ByteStreams.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/ImmutableIntArray.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingLock.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/AbstractHashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/ImmutableLongArray.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingCondition.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/BigDecimalMath.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/ReaderInputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/MacHashFunction.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/CombinedFuture.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AggregateFutureState.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/ImmutableSupplier.java
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 *
 * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
 * java.util.HashMap class.
 */
```

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/GeneralRange.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingSortedMultiset.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractRangeSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Count.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SortedIterables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedMultiset.java
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```
/**
  * Returns an array containing all of the elements in the specified collection. This method
  * returns the elements in the order they are returned by the collection's iterator. The returned
  * array is "safe" in that no references to it are maintained by the collection. The caller is
  * thus free to modify the returned array.
  *
  * <p>This method assumes that the collection size doesn't change while the method is running.
  *
  * <p>TODO(kevinb): support concurrently modified collections?
  *
  * @param c the collection for which to return an array of elements
  */
```

Found in path(s):
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ObjectArrays.java
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*/
/*
  * This method was rewritten in Java from an intermediate step of the Murmur hash function in
  * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
  * following header:
  *
  * MurmurHash3 was written by Austin Appleby, and is placed in the public domain. The author
  * hereby disclaims copyright to this source code.
  */
```

Found in path(s):
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/SmallCharMatcher.java
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```

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/MoreObjects.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/Quantiles.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Java8Usage.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/FluentFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractTransformFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Futures.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/CollectionFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/CaseFormat.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/PatternFilenameFilter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/TimeoutFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ImmediateFuture.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/annotations/VisibleForTesting.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Runnables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Verify.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredMultimapValues.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/BaseImmutableMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/JdkBackedImmutableBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/IndexedImmutableSet.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/TransformedListIterator.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingImmutableList.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingBlockingDeque.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/TreeTraverser.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CompactHashSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/DescendingMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredEntryMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RangeMap.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/TreeRangeMap.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableAsList.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/EvictingQueue.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingNavigableMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingImmutableSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractNavigableMap.java
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*/
/**
* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
* version.
*/

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*/
/*
  * This following method is a modified version of one found in
  * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/MultimapBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/MoreFiles.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableEntry.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Tables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Serialization.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/StandardTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableListMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/PeekingIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SingletonImmutableBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableMapValues.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Collections2.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableMapEntrySet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableCollection.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Table.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/EmptyImmutableListMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CollectPreconditions.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/HashBasedTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Platform.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/TreeBasedTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/StandardRowSortedTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Range.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/UnmodifiableIterator.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableMapKeySet.java
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*/
/**
* Holder for web specializations of methods of {@code Shorts}. Intended to be empty for regular
* version.
*/
```

Found in path(s):
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/ShortsMethodsForWeb.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableRangeSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/LinearTransformation.java

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/CharSink.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/LongAddable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredKeyMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/Parameter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/ByteSink.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/Closer.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/Stats.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/html/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/PairedStatsAccumulator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/Element.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/CharSource.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/StatsAccumulator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/MutableTypeToInstanceMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/SipHashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/TypeCapture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/LongAddable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/ByteSource.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/ChecksumHashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/Invokable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/RateLimiter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/AbstractByteHasher.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/BaseEncoding.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/PairedStats.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/LongAddables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CartesianList.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/FileWriteMode.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/ClassPath.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/xml/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableRangeMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ServiceManager.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/BaseGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/Traverser.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ClosingFuture.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CompactHashing.java
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```
/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
 * following header:
 *
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*/
```

```
/**
* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
* {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
* under GWT but with a slightly different signature.
*
* <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler wouldn't recognize
* it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/
```

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Partially.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/SuccessorsFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/MutableNetwork.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ImmutableNetwork.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/Graphs.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/InsecureRecursiveDeleteException.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/graph/Graph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/RecursiveDeleteOption.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/PredecessorsFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/MutableGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/Network.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/LongAdder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/Striped64.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Striped64.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Shorts.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/SequentialExecutor.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/CharMatcher.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FluentIterable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Booleans.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/net/PercentEscaper.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Joiner.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Floats.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/MultiReader.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Stopwatch.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Converter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Longs.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Ints.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/internal/Finalizer.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/net/InetAddresses.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/Escaper.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/thirdparty/publicsuffix/TrieParser.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RowSortedTable.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/UnmodifiableListIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SortedMapDifference.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/UnsignedBytes.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/JdkFutureAdapters.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/SignedBytes.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/MapMaker.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/SettableFuture.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/ByteArrayDataOutput.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/LineProcessor.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractService.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/LocalCache.java
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/**
  * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
  * key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
  * version.
  *
  * @throws UnsupportedOperationException always
  * @deprecated <b>Pass a key of type {@code Comparable} to use {@link
  *     ImmutableSortedMap#of(Comparable, Object)}.</b>
  */
```

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/**
* Holder for web specializations of methods of {@code Floats}. Intended to be empty for regular
* version.
*/

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableAsList.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingTable.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableEnumSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableSortedSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SingletonImmutableList.java
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* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslUtils.java
* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/SslCompletionEvent.java
* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslEngine.java
* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/AbstractSniHandler.java
* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/SslClientHelloHandler.java
* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/OptionalSslHandler.java
* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/SniCompletionEvent.java
* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/ocsp/package-info.java
* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/Conscrypt.java
* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
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* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficShapingHandler.java
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// Try the OpenJDK's proprietary implementation.
```

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* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/util/TrustManagerFactoryWrapper.java
* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/address/DynamicAddressConnectHandler.java
* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/SslMasterKeyHandler.java
* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java
* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java
* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/PseudoRandomFunction.java
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* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/ClientAuth.java
* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/util/LazyJavaxX509Certificate.java
* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNames.java
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* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
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* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
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* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/PemEncoded.java
* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
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* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
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* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/JdkSslContext.java
* /opt/cola/permits/1221016913_1635406597.08/0/netty-handler-4-1-69-final-sources-

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1.690 websocket-api 9.4.18.v20190429

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.691 aws-java-sdk-migrationhubrefactorspaces 1.12.199

1.691.1 Available under license :

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1.692 kmod 20 28.el7

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   http://www.eclipse.org/legal/epl-v10.html

Jetty may be distributed under either license.

Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.698 aws-java-sdk-lexmodelbuilding 1.12.199

1.698.1 Available under license :

Apache-2.0

1.699 hk2-utils 2.6.1

1.699.1 Available under license :

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Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/glassfish-ha-api
* https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor
* https://github.com/eclipse-ee4j/glassfish-shoal
* https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck
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* https://github.com/eclipse-ee4j/glassfish-hk2
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1.700 pycurl 7.19.0 19.el7

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otlin/time/MonoClock.kt","org.w3c/org.khronos.webgl.kt","org.w3c/org.w3c.dom.clipboard.kt","org.w3c/org.w3c.dom.css.kt","org.w3c/org.w3c.dom.events.kt","org.w3c/org.w3c.dom.kt","org.w3c/org.w3c.fetch.kt","org.w3c/org.w3c.dom.mediacapture.kt","org.w3c/org.w3c.dom.pointerevents.kt","org.w3c/org.w3c.dom.svg.kt","org.w3c/org.w3c.files.kt","org.w3c/org.w3c.notifications.kt","org.w3c/org.w3c.workers.kt","org.w3c/org.w3c.xhr.kt","annotations/Experimental.kt","annotations/ExperimentalStdlibApi.kt","annotations/Inference.kt","annotations/Multiplatform.kt","collections/AbstractCollection.kt","collections/AbstractIterator.kt","collections/AbstractList.kt","collections/AbstractMap.kt","collections/AbstractSet.kt","collections/Arrays.kt","collections/IndexedValue.kt","collections/MapAccessors.kt","collections/MapWithDefault.kt","collections/MutableCollections.kt","collections/ReversedViews.kt","collections/SequenceBuilder.kt","collections/SlidingWindow.kt","collections/UArraySorting.kt","contracts/ContractBuilder.kt","coroutines/ContinuationInterceptor.kt","coroutines/CoroutineContext.kt","coroutines/CoroutineContextImpl.kt","coroutines/intrinsics/Intrinsics.kt","experimental/bitwiseOperations.kt","experimental/inferenceMarker.kt","internal/Annotations.kt","properties/Delegates.kt","properties/ObservableProperty.kt","random/Random.kt","random/URandom.kt","random/XorWowRandom.kt","ranges/Ranges.kt","reflect/typeOf.kt","text/Char.kt","text/Indent.kt","text/regex/MatchResult.kt","text/Typography.kt","time/Clock.kt","time/Clocks.kt","time/Duration.kt","time/DurationUnit.kt","time/ExperimentalTime.kt","time/measureTime.kt","util/HashCode.kt","util/KotlinVersion.kt","util/Lateinit.kt","util/Lazy.kt","util/Numbers.kt","util/Suspend.kt","util/Tuples.kt","kotlin/annotations/Unsigned.kt","kotlin/UIntRange.kt","kotlin/UIterators.kt","kotlin/ULongRange.kt","kotlin/UMath.kt","kotlin/UNumbers.kt","kotlin/UProgressionUtil.kt","kotlin/UStrings.kt","kotlin/MathH.kt","coroutines.kt","CoroutinesLibrary.kt","coroutinesIntrinsics.kt","ContinuationInterceptor.kt","CoroutineContext.kt","CoroutineContextImpl.kt","Coroutines.kt","Intrinsics.kt","SequenceBuilder.kt"],"sourcesContent":["(function (root, factory) {\r\n if (typeof define === 'function' && define.amd) {\r\n define('kotlin', ['exports'], factory);\r\n }\r\n else if (typeof exports === 'object') {\r\n factory(module.exports);\r\n }\r\n else {\r\n root.kotlin = {};\r\n factory(root.kotlin);\r\n }\r\n}(this, function (Kotlin) {\r\n var _ = Kotlin;\r\n\r\n insertContent();\r\n}));\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\nKotlin.isBooleanArray = function (a) {\r\n return (Array.isArray(a) || a instanceof Int8Array) && a.$type$ === \"BooleanArray\"\r\n};\r\n\r\n\r\nKotlin.isByteArray = function (a) {\r\n return a instanceof Int8Array && a.$type$!== \"BooleanArray\"\r\n};\r\n\r\n\r\nKotlin.isShortArray = function (a) {\r\n return a instanceof Int16Array\r\n};\r\n\r\n\r\nKotlin.isCharArray = function (a) {\r\n return a instanceof Uint16Array && a.$type$ === \"CharArray\"\r\n};\r\n\r\n\r\nKotlin.isIntArray = function (a) {\r\n return a instanceof Int32Array\r\n};\r\n\r\n\r\nKotlin.isFloatArray = function (a) {\r\n return a instanceof Float32Array\r\n};\r\n\r\n\r\nKotlin.isDoubleArray = function (a) {\r\n return a instanceof Float64Array\r\n};\r\n\r\n\r\nKotlin.isLongArray = function (a) {\r\n return Array.isArray(a) && a.$type$ === \"LongArray\"\r\n};\r\n\r\n\r\nKotlin.isArray = function (a) {\r\n return Array.isArray(a) && !a.$type$;\r\n};\r\n\r\n\r\nKotlin.isArrayish = function (a) {\r\n return Array.isArray(a) || ArrayBuffer.isView(a)\r\n};\r\n\r\n\r\nKotlin.arrayToString = function (a) {\r\n var toString = Kotlin.isCharArray(a) ? String.fromCharCode : Kotlin.toString;\r\n return \"[\" + Array.prototype.map.call(a, function(e) { return toString(e); }).join(\", \") + \"]\";\r\n};\r\n\r\n\r\nKotlin.arrayDeepToString = function (arr) {\r\n return Kotlin.kotlin.collections.contentDeepToStringImpl(arr);\r\n};\r\n\r\n\r\nKotlin.arrayEquals = function (a, b) {\r\n if (a === b) {\r\n return true;\r\n }\r\n if (!Kotlin.isArrayish(b) || a.length !== b.length) {\r\n return false;\r\n }\r\n\r\n for (var i = 0, n = a.length; i < n; i++) {\r\n if (!Kotlin.equals(a[i], b[i])) {\r\n return false;\r\n }\r\n }\r\n return true;\r\n};\r\n\r\n\r\nKotlin.arrayDeepEquals = function (a, b) {\r\n return Kotlin.kotlin.collections.contentDeepEqualsImpl(a, b);\r\n};\r\n\r\n\r\nKotlin.arrayHashCode = function (arr) {\r\n var result = 1;\r\n for (var i = 0, n = arr.length; i < n; i++) {\r\n result = ((31 * result | 0) + Kotlin.hashCode(arr[i])) | 0;\r\n }\r\n return result;\r\n};\r\n\r\n\r\nKotlin.arrayDeepHashCode = function (arr) {\r\n return Kotlin.kotlin.collections.contentDeepHashCodeImpl(arr);\r\n};\r\n\r\n\r\nKotlin.primitiveArraySort = function (array) {\r\n array.sort(Kotlin.doubleCompareTo)\r\n};\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \r\n * Use of this source code is governed by the Apache 2.0 license

that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\nKotlin.getCallableRef = function(name, f) {\r\n f.callableName = name;\r\n return f;\r\n};\r\n\r\nKotlin.getPropertyCallableRef = function(name, paramCount, getter, setter) {\r\n getter.get = getter;\r\n getter.set = setter;\r\n getter.callableName = name;\r\n return getPropertyRefClass(getter, setter, propertyRefClassMetadataCache[paramCount]);\r\n};\r\n\r\n\r\nfunction getPropertyRefClass(obj, setter, cache) {\r\n obj.$metadata$ = getPropertyRefMetadata(typeof setter === \"function\" ? cache.mutable : cache.immutable);\r\n obj.constructor = obj;\r\n return obj;\r\n}\r\n\r\nvar propertyRefClassMetadataCache = [\r\n {\r\n mutable: { value: null, implementedInterface: function () {\r\n return Kotlin.kotlin.reflect.KMutableProperty0 }\r\n },\r\n immutable: { value: null, implementedInterface: function () {\r\n return Kotlin.kotlin.reflect.KProperty0 }\r\n }\r\n },\r\n {\r\n mutable: { value: null, implementedInterface: function () {\r\n return Kotlin.kotlin.reflect.KMutableProperty1 }\r\n },\r\n immutable: { value: null, implementedInterface: function () {\r\n return Kotlin.kotlin.reflect.KProperty1 }\r\n }\r\n}];\r\n\r\nfunction getPropertyRefMetadata(cache) {\r\n if (cache.value === null) {\r\n cache.value = {\r\n interfaces: [cache.implementedInterface()],\r\n baseClass: null,\r\n functions: {},\r\n properties: {},\r\n types: {},\r\n staticMembers: {}\r\n };\r\n }\r\n return cache.value;\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\nKotlin.toShort = function (a) {\r\n return (a & 0xFFFF) << 16 >> 16;\r\n};\r\n\r\nKotlin.toByte = function (a) {\r\n return (a & 0xFF) << 24 >> 24;\r\n};\r\n\r\nKotlin.toChar = function (a) {\r\n return a & 0xFFFF;\r\n};\r\n\r\nKotlin.numberToLong = function (a) {\r\n return a instanceof Kotlin.Long ? a : Kotlin.Long.fromNumber(a);\r\n};\r\n\r\nKotlin.numberToInt = function (a) {\r\n return a instanceof Kotlin.Long ? a.toInt() : Kotlin.doubleToInt(a);\r\n};\r\n\r\nKotlin.numberToShort = function (a) {\r\n return Kotlin.toShort(Kotlin.numberToInt(a));\r\n};\r\n\r\nKotlin.numberToByte = function (a) {\r\n return Kotlin.toByte(Kotlin.numberToInt(a));\r\n};\r\n\r\nKotlin.numberToDouble = function (a) {\r\n return +a;\r\n};\r\n\r\nKotlin.numberToChar = function (a) {\r\n return Kotlin.toChar(Kotlin.numberToInt(a));\r\n};\r\n\r\nKotlin.doubleToInt = function(a) {\r\n if (a > 2147483647) return 2147483647;\r\n if (a < -2147483648) return -2147483648;\r\n return a | 0;\r\n};\r\n\r\nKotlin.toBoxedChar = function (a) {\r\n if (a == null) return a;\r\n if (a instanceof Kotlin.BoxedChar) return a;\r\n return new Kotlin.BoxedChar(a);\r\n};\r\n\r\nKotlin.unboxChar = function(a) {\r\n if (a == null) return a;\r\n return Kotlin.toChar(a);\r\n};\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\nKotlin.equals = function (obj1, obj2) {\r\n if (obj1 == null) {\r\n return obj2 == null;\r\n }\r\n\r\n\r\n if (obj2 == null) {\r\n return false;\r\n }\r\n\r\n\r\n if (obj1 !== obj1) {\r\n return obj2 !== obj2;\r\n }\r\n\r\n\r\n if (typeof obj1 === \"object\" && typeof obj1.equals === \"function\") {\r\n return obj1.equals(obj2);\r\n }\r\n\r\n\r\n if (typeof obj1 === \"number\" && typeof obj2 === \"number\") {\r\n return obj1 === obj2 && (obj1 !== 0 || 1 / obj1 === 1 / obj2)\r\n }\r\n\r\n\r\n return obj1 === obj2;\r\n};\r\n\r\nKotlin.hashCode = function (obj) {\r\n if (obj == null) {\r\n return 0;\r\n }\r\n var objType = typeof obj;\r\n if (\"object\" === objType) {\r\n return \"function\" === typeof obj.hashCode ? obj.hashCode() : getObjectHashCode(obj);\r\n }\r\n if (\"function\" === objType) {\r\n return getObjectHashCode(obj);\r\n }\r\n if (\"number\" === objType) {\r\n return Kotlin.numberHashCode(obj);\r\n }\r\n if (\"boolean\" === objType) {\r\n return Number(obj)\r\n }\r\n\r\n\r\n var str = String(obj);\r\n return getStringHashCode(str);\r\n};\r\n\r\n\r\n\r\nKotlin.toString = function (o) {\r\n if (o == null) {\r\n return \"null\";\r\n }\r\n else if (Kotlin.isArrayish(o)) {\r\n return \"[...]\";\r\n }\r\n else {\r\n return o.toString();\r\n }\r\n};\r\n\r\n\r\n/** @const */\r\nvar POW_2_32 = 4294967296;\r\n\r\n// TODO: consider switching to Symbol type once we are on ES6.\r\n/** @const */\r\nvar OBJECT_HASH_CODE_PROPERTY_NAME = \"kotlinHashCodeValue$\";\r\n\r\n\r\nfunction getObjectHashCode(obj) {\r\n if (!(OBJECT_HASH_CODE_PROPERTY_NAME in obj)) {\r\n var hash = (Math.random() * POW_2_32) | 0; // Make 32-bit singed integer.\r\n Object.defineProperty(obj,

OBJECT_HASH_CODE_PROPERTY_NAME, { value: hash, enumerable: false });\r\n }\r\n return obj[OBJECT_HASH_CODE_PROPERTY_NAME];\r\n}\r\n\r\nfunction getStringHashCode(str) {\r\n var hash = 0;\r\n for (var i = 0; i < str.length; i++) {\r\n var code = str.charCodeAt(i);\r\n hash = (hash * 31 + code) | 0; // Keep it 32-bit.\r\n }\r\n return hash;\r\n}\r\n\r\n\r\nKotlin.identityHashCode = getObjectHashCode;\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// Copyright 2009 The Closure Library Authors. All Rights Reserved.\r\n//\r\n// Licensed under the Apache License, Version 2.0 (the \"License\");\r\n// you may not use this file except in compliance with the License.\r\n// You may obtain a copy of the License at\r\n//\r\n// http://www.apache.org/licenses/LICENSE-2.0\r\n//\r\n// Unless required by applicable law or agreed to in writing, software\r\n// distributed under the License is distributed on an \"AS-IS\" BASIS,\r\n// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\r\n\r\n/**\r\n * Constructs a 64-bit two's-complement integer, given its low and high 32-bit\r\n * values as *signed* integers. See the from* functions below for more\r\n * convenient ways of constructing Longs.\r\n *\r\n * The internal representation of a long is the two given signed, 32-bit values.\r\n * We use 32-bit pieces because these are the size of integers on which\r\n * Javascript performs bit-operations. For operations like addition and\r\n * multiplication, we split each number into 16-bit pieces, which can easily be\r\n * multiplied within Javascript's floating-point representation without overflow\r\n * or change in sign.\r\n *\r\n * In the algorithms below, we frequently reduce the negative case to the\r\n * positive case by negating the input(s) and then post-processing the result.\r\n * Note that we must ALWAYS check specially whether those values are MIN_VALUE\r\n * (-2^63) because -MIN_VALUE == MIN_VALUE (since 2^63 cannot be represented as\r\n * a positive number, it overflows back into a negative). Not handling this\r\n * case would often result in infinite recursion.\r\n *\r\n * @param {number} low The low (signed) 32 bits of the long.\r\n * @param {number} high The high (signed) 32 bits of the long.\r\n * @constructor\r\n * @final\r\n */\r\nKotlin.Long = function(low, high) {\r\n /**\r\n * @type {number}\r\n * @private\r\n */\r\n this.low_ = low | 0; // force into 32 signed bits.\r\n\r\n /**\r\n * @type {number}\r\n * @private\r\n */\r\n this.high_ = high | 0; // force into 32 signed bits.\r\n};\r\n\r\nKotlin.Long.$metadata$ = {\r\n kind: \"class\",\r\n simpleName: \"Long\",\r\n interfaces:[]\r\n};\r\n\r\n\r\n// NOTE: Common constant values ZERO, ONE, NEG_ONE, etc. are defined below the\r\n// from* methods on which they depend.\r\n\r\n\r\n/**\r\n * A cache of the Long representations of small integer values.\r\n * @type {!Object}\r\n * @private\r\n */\r\nKotlin.Long.IntCache_ = {};\r\n\r\n\r\n/**\r\n * Returns a Long representing the given (32-bit) integer value.\r\n * @param {number} value The 32-bit integer in question.\r\n * @return {!Kotlin.Long} The corresponding Long value.\r\n */\r\nKotlin.Long.fromInt = function(value) {\r\n if (-128 <= value && value < 128) {\r\n var cachedObj = Kotlin.Long.IntCache_[value];\r\n if (cachedObj) {\r\n return cachedObj;\r\n }\r\n }\r\n\r\n var obj = new Kotlin.Long(value | 0, value < 0 ? -1 : 0);\r\n if (-128 <= value && value < 128) {\r\n Kotlin.Long.IntCache_[value] = obj;\r\n }\r\n return obj;\r\n};\r\n\r\n\r\n\r\n/**\r\n * Converts this number value to `Long`.\r\n * The fractional part, if any, is rounded down.\r\n * Returns zero if this `Double` value is `NaN`, `Long.MIN_VALUE` if it's less than `Long.MIN_VALUE`,\r\n * `Long.MAX_VALUE` if it's bigger than `Long.MAX_VALUE`.\r\n * @param {number} value The number in question.\r\n * @return {!Kotlin.Long} The corresponding Long value.\r\n */\r\nKotlin.Long.fromNumber = function(value) {\r\n if (isNaN(value)) {\r\n return Kotlin.Long.ZERO;\r\n } else if (value <= -Kotlin.Long.TWO_PWR_63_DBL_) {\r\n return Kotlin.Long.MIN_VALUE;\r\n } else if (value + 1 >= Kotlin.Long.TWO_PWR_63_DBL_) {\r\n return Kotlin.Long.MAX_VALUE;\r\n } else if (value < 0) {\r\n return Kotlin.Long.fromNumber(-value).negate();\r\n } else {\r\n return new Kotlin.Long(\r\n (value % Kotlin.Long.TWO_PWR_32_DBL_) | 0,\r\n (value / Kotlin.Long.TWO_PWR_32_DBL_) | 0);\r\n }\r\n};\r\n\r\n\r\n\r\n/**\r\n * Returns a Long representing the 64-bit integer that comes by concatenating\r\n * the given high and low bits. Each is assumed to use 32 bits.\r\n * @param {number} lowBits The low 32-bits.\r\n * @param {number} highBits The high 32-bits.\r\n * @return {!Kotlin.Long} The corresponding Long value.\r\n */\r\nKotlin.Long.fromBits = function(lowBits, highBits) {\r\n return new Kotlin.Long(lowBits, highBits);\r\n};\r\n\r\n\r\n\r\n/**\r\n * Returns a Long representation of the given string, written using the given\r\n *

radix.\r\n * @param {string} str The textual representation of the Long.\r\n * @param {number=} opt_radix The radix in which the text is written.\r\n * @return {!Kotlin.Long} The corresponding Long value.\r\n */\r\nKotlin.Long.fromString = function(str, opt_radix) {\r\n if (str.length == 0) {\r\n   throw Error('number format error: empty string');\r\n }\r\n\r\n var radix = opt_radix || 10;\r\n if (radix < 2 || 36 < radix) {\r\n   throw Error('radix out of range: ' + radix);\r\n }\r\n\r\n if (str.charAt(0) == '-') {\r\n   return Kotlin.Long.fromString(str.substring(1), radix).negate();\r\n } else if (str.indexOf('-') >= 0) {\r\n   throw Error('number format error: interior \"-\" character: ' + str);\r\n }\r\n\r\n // Do several (8) digits each time through the loop, so as to\r\n // minimize the calls to the very expensive emulated div.\r\n var radixToPower = Kotlin.Long.fromNumber(Math.pow(radix, 8));\r\n\r\n var result = Kotlin.Long.ZERO;\r\n for (var i = 0; i < str.length; i += 8) {\r\n   var size = Math.min(8, str.length - i);\r\n   var value = parseInt(str.substring(i, i + size), radix);\r\n   if (size < 8) {\r\n   var power = Kotlin.Long.fromNumber(Math.pow(radix, size));\r\n   result = result.multiply(power).add(Kotlin.Long.fromNumber(value));\r\n   } else {\r\n   result = result.multiply(radixToPower);\r\n   result = result.add(Kotlin.Long.fromNumber(value));\r\n   }\r\n }\r\n return result;\r\n};\r\n\r\n\r\n\r\n// NOTE: the compiler should inline these constant values below and then remove\r\n// these variables, so there should be no runtime penalty for these.\r\n\r\n\r\n\r\n/**\r\n * Number used repeated below in calculations. This must appear before the\r\n * first call to any from* function below.\r\n * @type {number}\r\n * @private\r\n */\r\nKotlin.Long.TWO_PWR_16_DBL_ = 1 << 16;\r\n\r\n\r\n\r\n/**\r\n * @type {number}\r\n * @private\r\n */\r\nKotlin.Long.TWO_PWR_24_DBL_ = 1 << 24;\r\n\r\n\r\n\r\n/**\r\n * @type {number}\r\n * @private\r\n */\r\nKotlin.Long.TWO_PWR_32_DBL_ =\r\n   Kotlin.Long.TWO_PWR_16_DBL_ * Kotlin.Long.TWO_PWR_16_DBL_;\r\n\r\n\r\n\r\n/**\r\n * @type {number}\r\n * @private\r\n */\r\nKotlin.Long.TWO_PWR_31_DBL_ =\r\n   Kotlin.Long.TWO_PWR_32_DBL_ / 2;\r\n\r\n\r\n\r\n/**\r\n * @type {number}\r\n * @private\r\n */\r\nKotlin.Long.TWO_PWR_48_DBL_ =\r\n   Kotlin.Long.TWO_PWR_32_DBL_ * Kotlin.Long.TWO_PWR_16_DBL_;\r\n\r\n\r\n\r\n/**\r\n * @type {number}\r\n * @private\r\n */\r\nKotlin.Long.TWO_PWR_64_DBL_ =\r\n   Kotlin.Long.TWO_PWR_32_DBL_ * Kotlin.Long.TWO_PWR_32_DBL_;\r\n\r\n\r\n\r\n/**\r\n * @type {number}\r\n * @private\r\n */\r\nKotlin.Long.TWO_PWR_63_DBL_ =\r\n   Kotlin.Long.TWO_PWR_64_DBL_ / 2;\r\n\r\n\r\n\r\n/** @type {!Kotlin.Long} */\r\nKotlin.Long.ZERO = Kotlin.Long.fromInt(0);\r\n\r\n\r\n\r\n/** @type {!Kotlin.Long} */\r\nKotlin.Long.ONE = Kotlin.Long.fromInt(1);\r\n\r\n\r\n\r\n/** @type {!Kotlin.Long} */\r\nKotlin.Long.NEG_ONE = Kotlin.Long.fromInt(-1);\r\n\r\n\r\n\r\n/** @type {!Kotlin.Long} */\r\nKotlin.Long.MAX_VALUE =\r\n   Kotlin.Long.fromBits(0xFFFFFFFF | 0, 0x7FFFFFFF | 0);\r\n\r\n\r\n\r\n/** @type {!Kotlin.Long} */\r\nKotlin.Long.MIN_VALUE = Kotlin.Long.fromBits(0, 0x80000000 | 0);\r\n\r\n\r\n\r\n/**\r\n * @type {!Kotlin.Long}\r\n * @private\r\n */\r\nKotlin.Long.TWO_PWR_24_ = Kotlin.Long.fromInt(1 << 24);\r\n\r\n\r\n\r\n/** @return {number} The value, assuming it is a 32-bit integer. */\r\nKotlin.Long.prototype.toInt = function() {\r\n return this.low_;\r\n};\r\n\r\n\r\n\r\n/** @return {number} The closest floating-point representation to this value. */\r\nKotlin.Long.prototype.toNumber = function() {\r\n return this.high_ * Kotlin.Long.TWO_PWR_32_DBL_ +\r\n   this.getLowBitsUnsigned();\r\n};\r\n\r\n\r\n/** @return {number} The 32-bit hashCode of this value. */\r\nKotlin.Long.prototype.hashCode = function() {\r\n return this.high_ ^ this.low_;\r\n};\r\n\r\n\r\n/**\r\n * @param {number=} opt_radix The radix in which the text should be written.\r\n * @return {string} The textual representation of this value.\r\n * @override\r\n */\r\nKotlin.Long.prototype.toString = function(opt_radix) {\r\n var radix = opt_radix || 10;\r\n if (radix < 2 || 36 < radix) {\r\n   throw Error('radix out of range: ' + radix);\r\n }\r\n\r\n if (this.isZero()) {\r\n   return '0';\r\n }\r\n\r\n if (this.isNegative()) {\r\n   if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\r\n   // We need to change the Long value before it can be negated, so we remove\r\n   // the bottom-most digit in this base and then recurse to do the rest.\r\n   var radixLong = Kotlin.Long.fromNumber(radix);\r\n   var div = this.div(radixLong);\r\n   var rem = div.multiply(radixLong).subtract(this);\r\n   return div.toString(radix) + rem.toInt().toString(radix);\r\n   } else {\r\n   return '-' + this.negate().toString(radix);\r\n   }\r\n }\r\n\r\n // Do several (6) digits each time through the loop, so as to\r\n // minimize the calls to the very expensive emulated div.\r\n var radixToPower = Kotlin.Long.fromNumber(Math.pow(radix, 6));\r\n\r\n var rem = this;\r\n var result = '';\r\n while (true) {\r\n   var

remDiv = rem.div(radixToPower);\r\n var intval = rem.subtract(remDiv.multiply(radixToPower)).toInt();\r\n var digits = intval.toString(radix);\r\n\r\n rem = remDiv;\r\n if (rem.isZero()) {\r\n return digits + result;\r\n } else {\r\n while (digits.length < 6) {\r\n digits = '0' + digits;\r\n }\r\n result = '' + digits + result;\r\n }\r\n }\r\n};\r\n\r\n\r\n/** @return {number} The high 32-bits as a signed value. */\r\nKotlin.Long.prototype.getHighBits = function() {\r\n return this.high_;\r\n};\r\n\r\n\r\n/** @return {number} The low 32-bits as a signed value. */\r\nKotlin.Long.prototype.getLowBits = function() {\r\n return this.low_;\r\n};\r\n\r\n\r\n/** @return {number} The low 32-bits as an unsigned value. */\r\nKotlin.Long.prototype.getLowBitsUnsigned = function() {\r\n return (this.low_ >= 0) ?\r\n this.low_ : Kotlin.Long.TWO_PWR_32_DBL_ + this.low_;\r\n};\r\n\r\n\r\n/**\r\n * @return {number} Returns the number of bits needed to represent the absolute\r\n * value of this Long.\r\n */\r\nKotlin.Long.prototype.getNumBitsAbs = function() {\r\n if (this.isNegative()) {\r\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\r\n return 64;\r\n } else {\r\n return this.negate().getNumBitsAbs();\r\n }\r\n } else {\r\n var val = this.high_ != 0 ? this.high_ : this.low_;\r\n for (var bit = 31; bit > 0; bit--) {\r\n if ((val & (1 << bit)) != 0) {\r\n break;\r\n }\r\n }\r\n return this.high_ != 0 ? bit + 33 : bit + 1;\r\n }\r\n};\r\n\r\n\r\n/** @return {boolean} Whether this value is zero. */\r\nKotlin.Long.prototype.isZero = function() {\r\n return this.high_ == 0 && this.low_ == 0;\r\n};\r\n\r\n\r\n/** @return {boolean} Whether this value is negative. */\r\nKotlin.Long.prototype.isNegative = function() {\r\n return this.high_ < 0;\r\n};\r\n\r\n\r\n/** @return {boolean} Whether this value is odd. */\r\nKotlin.Long.prototype.isOdd = function() {\r\n return (this.low_ & 1) == 1;\r\n};\r\n\r\n\r\n/**\r\n * @param {Kotlin.Long} other Long to compare against.\r\n * @return {boolean} Whether this Long equals the other.\r\n */\r\nKotlin.Long.prototype.equalsLong = function(other) {\r\n return (this.high_ == other.high_) && (this.low_ == other.low_);\r\n};\r\n\r\n\r\n/**\r\n * @param {Kotlin.Long} other Long to compare against.\r\n * @return {boolean} Whether this Long does not equal the other.\r\n */\r\nKotlin.Long.prototype.notEqualsLong = function(other) {\r\n return (this.high_ != other.high_) || (this.low_ != other.low_);\r\n};\r\n\r\n\r\n/**\r\n * @param {Kotlin.Long} other Long to compare against.\r\n * @return {boolean} Whether this Long is less than the other.\r\n */\r\nKotlin.Long.prototype.lessThan = function(other) {\r\n return this.compare(other) < 0;\r\n};\r\n\r\n\r\n/**\r\n * @param {Kotlin.Long} other Long to compare against.\r\n * @return {boolean} Whether this Long is less than or equal to the other.\r\n */\r\nKotlin.Long.prototype.lessThanOrEqual = function(other) {\r\n return this.compare(other) <= 0;\r\n};\r\n\r\n\r\n/**\r\n * @param {Kotlin.Long} other Long to compare against.\r\n * @return {boolean} Whether this Long is greater than the other.\r\n */\r\nKotlin.Long.prototype.greaterThan = function(other) {\r\n return this.compare(other) > 0;\r\n};\r\n\r\n\r\n/**\r\n * @param {Kotlin.Long} other Long to compare against.\r\n * @return {boolean} Whether this Long is greater than or equal to the other.\r\n */\r\nKotlin.Long.prototype.greaterThanOrEqual = function(other) {\r\n return this.compare(other) >= 0;\r\n};\r\n\r\n\r\n/**\r\n * Compares this Long with the given one.\r\n * @param {Kotlin.Long} other Long to compare against.\r\n * @return {number} 0 if they are the same, 1 if the this is greater, and -1\r\n * if the given one is greater.\r\n */\r\nKotlin.Long.prototype.compare = function(other) {\r\n if (this.equalsLong(other)) {\r\n return 0;\r\n }\r\n\r\n var thisNeg = this.isNegative();\r\n var otherNeg = other.isNegative();\r\n if (thisNeg && !otherNeg) {\r\n return -1;\r\n }\r\n if (!thisNeg && otherNeg) {\r\n return 1;\r\n }\r\n\r\n // at this point, the signs are the same, so subtraction will not overflow\r\n if (this.subtract(other).isNegative()) {\r\n return -1;\r\n } else {\r\n return 1;\r\n }\r\n};\r\n\r\n\r\n/** @return {!Kotlin.Long} The negation of this value. */\r\nKotlin.Long.prototype.negate = function() {\r\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\r\n return Kotlin.Long.MIN_VALUE;\r\n } else {\r\n return this.not().add(Kotlin.Long.ONE);\r\n }\r\n};\r\n\r\n\r\n/**\r\n * Returns the sum of this and the given Long.\r\n * @param {Kotlin.Long} other Long to add to this one.\r\n * @return {!Kotlin.Long} The sum of this and the given Long.\r\n */\r\nKotlin.Long.prototype.add = function(other) {\r\n // Divide each number into 4 chunks of 16 bits, and then sum the chunks.\r\n\r\n var a48 = this.high_ >>> 16;\r\n var a32 = this.high_ & 0xFFFF;\r\n var a16 = this.low_ >>> 16;\r\n var a00 = this.low_ & 0xFFFF;\r\n\r\n var b48 = other.high_ >>> 16;\r\n var b32 = other.high_ & 0xFFFF;\r\n var b16 = other.low_ >>> 16;\r\n var b00 = other.low_ & 0xFFFF;\r\n\r\n var c48 = 0, c32 = 0, c16 = 0, c00 = 0;\r\n c00 += a00 + b00;\r\n c16 += c00 >>> 16;\r\n c00 &= 0xFFFF;\r\n c16 += a16 + b16;\r\n c32 += c16 >>> 16;\r\n c16 &= 0xFFFF;\r\n c32 += a32 +

b32;\r\n c48 += c32 >>> 16;\r\n c32 &= 0xFFFF;\r\n c48 += a48 + b48;\r\n c48 &= 0xFFFF;\r\n return Kotlin.Long.fromBits((c16 << 16) | c00, (c48 << 16) | c32);\r\n};\r\n\r\n\r\n/**\r\n * Returns the difference of this and the given Long.\r\n * @param {Kotlin.Long} other Long to subtract from this.\r\n * @return {!Kotlin.Long} The difference of this and the given Long.\r\n */\r\nKotlin.Long.prototype.subtract = function(other) {\r\n return this.add(other.negate());\r\n};\r\n\r\n\r\n/**\r\n * Returns the product of this and the given long.\r\n * @param {Kotlin.Long} other Long to multiply with this.\r\n * @return {!Kotlin.Long} The product of this and the other.\r\n */\r\nKotlin.Long.prototype.multiply = function(other) {\r\n if (this.isZero()) {\r\n   return Kotlin.Long.ZERO;\r\n } else if (other.isZero()) {\r\n   return Kotlin.Long.ZERO;\r\n }\r\n\r\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\r\n   return other.isOdd() ? Kotlin.Long.MIN_VALUE : Kotlin.Long.ZERO;\r\n } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {\r\n   return this.isOdd() ? Kotlin.Long.MIN_VALUE : Kotlin.Long.ZERO;\r\n }\r\n\r\n if (this.isNegative()) {\r\n   if (other.isNegative()) {\r\n   return this.negate().multiply(other.negate());\r\n   } else {\r\n   return this.negate().multiply(other).negate();\r\n   }\r\n } else if (other.isNegative()) {\r\n   return this.multiply(other.negate()).negate();\r\n }\r\n\r\n // If both longs are small, use float multiplication\r\n if (this.lessThan(Kotlin.Long.TWO_PWR_24_) &&\r\n   other.lessThan(Kotlin.Long.TWO_PWR_24_)) {\r\n   return Kotlin.Long.fromNumber(this.toNumber() * other.toNumber());\r\n }\r\n\r\n // Divide each long into 4 chunks of 16 bits, and then add up 4x4 products.\r\n // We can skip products that would overflow.\r\n\r\n var a48 = this.high_ >>> 16;\r\n var a32 = this.high_ & 0xFFFF;\r\n var a16 = this.low_ >>> 16;\r\n var a00 = this.low_ & 0xFFFF;\r\n\r\n\r\n var b48 = other.high_ >>> 16;\r\n var b32 = other.high_ & 0xFFFF;\r\n var b16 = other.low_ >>> 16;\r\n var b00 = other.low_ & 0xFFFF;\r\n\r\n\r\n var c48 = 0, c32 = 0, c16 = 0, c00 = 0;\r\n c00 += a00 * b00;\r\n c16 += c00 >>> 16;\r\n c00 &= 0xFFFF;\r\n c16 += a16 * b00;\r\n c32 += c16 >>> 16;\r\n c16 &= 0xFFFF;\r\n c16 += a00 * b16;\r\n c32 += c16 >>> 16;\r\n c16 &= 0xFFFF;\r\n c32 += a32 * b00;\r\n c48 += c32 >>> 16;\r\n c32 &= 0xFFFF;\r\n c32 += a16 * b16;\r\n c48 += c32 >>> 16;\r\n c32 &= 0xFFFF;\r\n c32 += a00 * b32;\r\n c48 += c32 >>> 16;\r\n c32 &= 0xFFFF;\r\n c48 += a48 * b00 + a32 * b16 + a16 * b32 + a00 * b48;\r\n c48 &= 0xFFFF;\r\n return Kotlin.Long.fromBits((c16 << 16) | c00, (c48 << 16) | c32);\r\n};\r\n\r\n\r\n\r\n/**\r\n * Returns this Long divided by the given one.\r\n * @param {Kotlin.Long} other Long by which to divide.\r\n * @return {!Kotlin.Long} This Long divided by the given one.\r\n */\r\nKotlin.Long.prototype.div = function(other) {\r\n if (other.isZero()) {\r\n   throw Error('division by zero');\r\n } else if (this.isZero()) {\r\n   return Kotlin.Long.ZERO;\r\n }\r\n\r\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\r\n   if (other.equalsLong(Kotlin.Long.ONE) ||\r\n   other.equalsLong(Kotlin.Long.NEG_ONE)) {\r\n   return Kotlin.Long.MIN_VALUE; // recall that -MIN_VALUE == MIN_VALUE\r\n   } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {\r\n   return Kotlin.Long.ONE;\r\n   } else {\r\n   // At this point, we have |other| >= 2, so |this/other| < |MIN_VALUE|.\r\n   var halfThis = this.shiftRight(1);\r\n   var approx = halfThis.div(other).shiftLeft(1);\r\n   if (approx.equalsLong(Kotlin.Long.ZERO)) {\r\n   return other.isNegative() ? Kotlin.Long.ONE : Kotlin.Long.NEG_ONE;\r\n   } else {\r\n   var rem = this.subtract(other.multiply(approx));\r\n   var result = approx.add(rem.div(other));\r\n   return result;\r\n   }\r\n   }\r\n } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {\r\n   return Kotlin.Long.ZERO;\r\n }\r\n\r\n if (this.isNegative()) {\r\n   if (other.isNegative()) {\r\n   return this.negate().div(other.negate());\r\n   } else {\r\n   return this.negate().div(other).negate();\r\n   }\r\n } else if (other.isNegative()) {\r\n   return this.div(other.negate()).negate();\r\n }\r\n\r\n // Repeat the following until the remainder is less than other: find a\r\n // floating-point that approximates remainder / other *from below*, add this\r\n // into the result, and subtract it from the remainder. It is critical that\r\n // the approximate value is less than or equal to the real value so that the\r\n // remainder never becomes negative.\r\n var res = Kotlin.Long.ZERO;\r\n var rem = this;\r\n while (rem.greaterThanOrEqual(other)) {\r\n   // Approximate the result of division. This may be a little greater or\r\n   // smaller than the actual value.\r\n   var approx = Math.max(1, Math.floor(rem.toNumber() / other.toNumber()));\r\n\r\n\r\n   // We will tweak the approximate result by changing it in the 48-th digit or\r\n   // the smallest non-fractional digit, whichever is larger.\r\n   var log2 = Math.ceil(Math.log(approx) / Math.LN2);\r\n   var delta = (log2 <= 48) ? 1 : Math.pow(2, log2 - 48);\r\n\r\n\r\n   // Decrease the approximation until it is smaller than

the remainder. Note\r\n   // that if it is too large, the product overflows and is negative.\r\n   var approxRes = Kotlin.Long.fromNumber(approx);\r\n   var approxRem = approxRes.multiply(other);\r\n   while (approxRem.isNegative() || approxRem.greaterThan(rem)) {\r\n   approx -= delta;\r\n   approxRes = Kotlin.Long.fromNumber(approx);\r\n   approxRem = approxRes.multiply(other);\r\n   }\r\n\r\n   // We know the answer can't be zero... and actually, zero would cause\r\n   // infinite recursion since we would make no progress.\r\n   if (approxRes.isZero()) {\r\n   approxRes = Kotlin.Long.ONE;\r\n   }\r\n\r\n   res = res.add(approxRes);\r\n   rem = rem.subtract(approxRem);\r\n }\r\n return res;\r\n};\r\n\r\n\r\n\r\n/**\r\n * Returns this Long modulo the given one.\r\n * @param {Kotlin.Long} other Long by which to mod.\r\n * @return {!Kotlin.Long} This Long modulo the given one.\r\n */\r\nKotlin.Long.prototype.modulo = function(other) {\r\n return this.subtract(this.div(other).multiply(other));\r\n};\r\n\r\n\r\n\r\n/** @return {!Kotlin.Long} The bitwise-NOT of this value. */\r\nKotlin.Long.prototype.not = function() {\r\n return Kotlin.Long.fromBits(~this.low_, ~this.high_);\r\n};\r\n\r\n\r\n\r\n/**\r\n * Returns the bitwise-AND of this Long and the given one.\r\n * @param {Kotlin.Long} other The Long with which to AND.\r\n * @return {!Kotlin.Long} The bitwise-AND of this and the other.\r\n */\r\nKotlin.Long.prototype.and = function(other) {\r\n return Kotlin.Long.fromBits(this.low_ & other.low_,\r\n   this.high_ & other.high_);\r\n};\r\n\r\n\r\n\r\n/**\r\n * Returns the bitwise-OR of this Long and the given one.\r\n * @param {Kotlin.Long} other The Long with which to OR.\r\n * @return {!Kotlin.Long} The bitwise-OR of this and the other.\r\n */\r\nKotlin.Long.prototype.or = function(other) {\r\n return Kotlin.Long.fromBits(this.low_ | other.low_,\r\n   this.high_ | other.high_);\r\n};\r\n\r\n\r\n\r\n/**\r\n * Returns the bitwise-XOR of this Long and the given one.\r\n * @param {Kotlin.Long} other The Long with which to XOR.\r\n * @return {!Kotlin.Long} The bitwise-XOR of this and the other.\r\n */\r\nKotlin.Long.prototype.xor = function(other) {\r\n return Kotlin.Long.fromBits(this.low_ ^ other.low_,\r\n   this.high_ ^ other.high_);\r\n};\r\n\r\n\r\n\r\n/**\r\n * Returns this Long with bits shifted to the left by the given amount.\r\n * @param {number} numBits The number of bits by which to shift.\r\n * @return {!Kotlin.Long} This shifted to the left by the given amount.\r\n */\r\nKotlin.Long.prototype.shiftLeft = function(numBits) {\r\n numBits &= 63;\r\n if (numBits == 0) {\r\n   return this;\r\n } else {\r\n   var low = this.low_;\r\n   if (numBits < 32) {\r\n   var high = this.high_;\r\n   return Kotlin.Long.fromBits(\r\n   low << numBits,\r\n   (high << numBits) | (low >>> (32 - numBits)));\r\n   } else {\r\n   return Kotlin.Long.fromBits(0, low << (numBits - 32));\r\n   }\r\n }\r\n};\r\n\r\n\r\n\r\n/**\r\n * Returns this Long with bits shifted to the right by the given amount.\r\n * @param {number} numBits The number of bits by which to shift.\r\n * @return {!Kotlin.Long} This shifted to the right by the given amount.\r\n */\r\nKotlin.Long.prototype.shiftRight = function(numBits) {\r\n numBits &= 63;\r\n if (numBits == 0) {\r\n   return this;\r\n } else {\r\n   var high = this.high_;\r\n   if (numBits < 32) {\r\n   var low = this.low_;\r\n   return Kotlin.Long.fromBits(\r\n   (low >>> numBits) | (high << (32 - numBits)),\r\n   high >> numBits);\r\n   } else {\r\n   return Kotlin.Long.fromBits(\r\n   high >> (numBits - 32),\r\n   high >= 0 ? 0 : -1);\r\n   }\r\n }\r\n};\r\n\r\n\r\n\r\n/**\r\n * Returns this Long with bits shifted to the right by the given amount, with\r\n * zeros placed into the new leading bits.\r\n * @param {number} numBits The number of bits by which to shift.\r\n * @return {!Kotlin.Long} This shifted to the right by the given amount, with\r\n *   zeros placed into the new leading bits.\r\n */\r\nKotlin.Long.prototype.shiftRightUnsigned = function(numBits) {\r\n numBits &= 63;\r\n if (numBits == 0) {\r\n   return this;\r\n } else {\r\n   var high = this.high_;\r\n   if (numBits < 32) {\r\n   var low = this.low_;\r\n   return Kotlin.Long.fromBits(\r\n   (low >>> numBits) | (high << (32 - numBits)),\r\n   high >>> numBits);\r\n   } else if (numBits == 32) {\r\n   return Kotlin.Long.fromBits(high, 0);\r\n   } else {\r\n   return Kotlin.Long.fromBits(high >>> (numBits - 32), 0);\r\n   }\r\n }\r\n};\r\n\r\n\r\n// Support for Kotlin\r\nKotlin.Long.prototype.equals = function (other) {\r\n return other instanceof Kotlin.Long &&\n   this.equalsLong(other);\r\n};\r\n\r\n\r\nKotlin.Long.prototype.compareTo_11rb$ = Kotlin.Long.prototype.compare;\r\n\r\n\r\nKotlin.Long.prototype.inc = function() {\r\n return this.add(Kotlin.Long.ONE);\r\n};\r\n\r\n\r\nKotlin.Long.prototype.dec = function() {\r\n return this.add(Kotlin.Long.NEG_ONE);\r\n};\r\n\r\n\r\nKotlin.Long.prototype.valueOf = function() {\r\n return this.toNumber();\r\n};\r\n\r\n\r\nKotlin.Long.prototype.unaryPlus = function() {\r\n return

this;\r\n};\r\n\r\nKotlin.Long.prototype.unaryMinus = Kotlin.Long.prototype.negate;\r\nKotlin.Long.prototype.inv = Kotlin.Long.prototype.not;\r\n\r\nKotlin.Long.prototype.rangeTo = function (other) {\r\n return new Kotlin.kotlin.ranges.LongRange(this, other);\r\n};","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n/**\r\n * @param {string} id\r\n * @param {Object} declaration\r\n */\r\nKotlin.defineModule = function (id, declaration) {\r\n};\r\n\r\nKotlin.defineInlineFunction = function(tag, fun) {\r\n return fun;\r\n};\r\n\r\nKotlin.wrapFunction = function(fun) {\r\n var f = function() {\r\n f = fun();\r\n return f.apply(this, arguments);\r\n };\r\n return function() {\r\n return f.apply(this, arguments);\r\n };\r\n};\r\n\r\nKotlin.isTypeOf = function(type) {\r\n return function (object) {\r\n return typeof object === type;\r\n }\r\n};\r\n\r\nKotlin.isInstanceOf = function (klass) {\r\n return function (object) {\r\n return Kotlin.isType(object, klass);\r\n }\r\n};\r\n\r\nKotlin.orNull = function (fn) {\r\n return function (object) {\r\n return object == null || fn(object);\r\n }\r\n};\r\n\r\nKotlin.andPredicate = function (a, b) {\r\n return function (object) {\r\n return a(object) && b(object);\r\n }\r\n};\r\n\r\nKotlin.kotlinModuleMetadata = function (abiVersion, moduleName, data) {\r\n};\r\n\r\nKotlin.suspendCall = function(value) {\r\n return value;\r\n};\r\n\r\nKotlin.coroutineResult = function(qualifier) {\r\n throwMarkerError();\r\n};\r\n\r\nKotlin.coroutineController = function(qualifier) {\r\n throwMarkerError();\r\n};\r\n\r\nKotlin.coroutineReceiver = function(qualifier) {\r\n throwMarkerError();\r\n};\r\n\r\nKotlin.setCoroutineResult = function(value, qualifier) {\r\n throwMarkerError();\r\n};\r\n\r\n\r\nfunction throwMarkerError() {\r\n throw new Error(\r\n \"This marker function should never been called. \" +\r\n \"Looks like compiler did not eliminate it properly. \" +\r\n \"Please, report an issue if you caught this exception.\");\r\n}\r\n\r\nKotlin.getFunctionById = function(id, defaultValue) {\r\n return function() {\r\n return defaultValue;\r\n }\r\n};","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\nKotlin.compareTo = function (a, b) {\r\n var typeA = typeof a;\r\n if (typeA === \"number\") {\r\n if (typeof b === \"number\") {\r\n return Kotlin.doubleCompareTo(a, b);\r\n }\r\n return Kotlin.primitiveCompareTo(a, b);\r\n }\r\n if (typeA === \"string\" || typeA === \"boolean\") {\r\n return Kotlin.primitiveCompareTo(a, b);\r\n }\r\n return a.compareTo_11rb$(b);\r\n};\r\n\r\nKotlin.primitiveCompareTo = function (a, b) {\r\n return a < b ? -1 : a > b ? 1 : 0;\r\n};\r\n\r\nKotlin.doubleCompareTo = function (a, b) {\r\n if (a < b) return -1;\r\n if (a > b) return 1;\r\n\r\n if (a === b) {\r\n if (a !== 0) return 0;\r\n\r\n var ia = 1 / a;\r\n return ia === 1 / b ? 0 : (ia < 0 ? -1 : 1);\r\n }\r\n\r\n return a !== a ? (b !== b ? 0 : 1) : -1\r\n};\r\n\r\nKotlin.charInc = function (value) {\r\n return Kotlin.toChar(value+1);\r\n};\r\n\r\nKotlin.charDec = function (value) {\r\n return Kotlin.toChar(value-1);\r\n};\r\n\r\nKotlin.imul = Math.imul || imul;\r\n\r\nKotlin.imulEmulated = imul;\r\n\r\n\r\nfunction imul(a, b) {\r\n return ((a & 0xffff0000) * (b & 0xffff) + (a & 0xffff) * (b | 0)) | 0;\r\n}\r\n\r\n\r\n(function() {\r\n var buf = new ArrayBuffer(8);\r\n var bufFloat64 = new Float64Array(buf);\r\n var bufFloat32 = new Float32Array(buf);\r\n var bufInt32 = new Int32Array(buf);\r\n var lowIndex = 0;\r\n var highIndex = 1;\r\n\r\n bufFloat64[0] = -1; // bff00000_00000000\r\n if (bufInt32[lowIndex] !== 0) {\r\n lowIndex = 1;\r\n highIndex = 0;\r\n }\r\n\r\n Kotlin.doubleToBits = function(value) {\r\n return Kotlin.doubleToRawBits(isNaN(value) ? NaN : value);\r\n };\r\n\r\n Kotlin.doubleToRawBits = function(value) {\r\n bufFloat64[0] = value;\r\n return Kotlin.Long.fromBits(bufInt32[lowIndex], bufInt32[highIndex]);\r\n };\r\n\r\n Kotlin.doubleFromBits = function(value) {\r\n bufInt32[lowIndex] = value.low_;\r\n bufInt32[highIndex] = value.high_;\r\n return bufFloat64[0];\r\n };\r\n\r\n Kotlin.floatToBits = function(value) {\r\n return Kotlin.floatToRawBits(isNaN(value) ? NaN : value);\r\n };\r\n\r\n Kotlin.floatToRawBits = function(value) {\r\n bufFloat32[0] = value;\r\n return bufInt32[0];\r\n };\r\n\r\n Kotlin.floatFromBits = function(value) {\r\n bufInt32[0] = value;\r\n return bufFloat32[0];\r\n };\r\n\r\n // returns zero value for number with positive sign bit and non-zero value for number with negative sign bit.\r\n Kotlin.doubleSignBit = function(value) {\r\n bufFloat64[0] = value;\r\n return bufInt32[highIndex] & 0x80000000;\r\n };\r\n\r\n Kotlin.numberHashCode = function(obj) {\r\n if ((obj | 0) === obj) {\r\n return obj | 0;\r\n }\r\n else {\r\n

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bufFloat64[0] = obj;\r\n            return (bufInt32[highIndex] * 31 | 0) + bufInt32[lowIndex] | 0;\r\n        }\r\n
}\r\n})();\r\n\r\nKotlin.ensureNotNull = function(x) {\r\n    return x != null ? x :
Kotlin.throwNPE();\r\n};\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors. \r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\r\n */\r\n\r\nif (typeof String.prototype.startsWith === \"undefined\") {\r\n
String.prototype.startsWith = function(searchString, position) {\r\n        position = position || 0;\r\n        return
this.lastIndexOf(searchString, position) === position;\r\n    };\r\n}\r\nif (typeof String.prototype.endsWith ===
\"undefined\") {\r\n    String.prototype.endsWith = function(searchString, position) {\r\n        var subjectString =
this.toString();\r\n        if (position === undefined || position > subjectString.length) {\r\n            position =
subjectString.length;\r\n        }\r\n        position -= searchString.length;\r\n        var lastIndex =
subjectString.indexOf(searchString, position);\r\n        return lastIndex !== -1 && lastIndex === position;\r\n
};\r\n}\r\n// ES6 Math polyfills\r\nif (typeof Math.sign === \"undefined\") {\r\n    Math.sign = function(x) {\r\n
x = +x; // convert to a number\r\n        if (x === 0 || isNaN(x)) {\r\n            return Number(x);\r\n        }\r\n
return x > 0 ? 1 : -1;\r\n    };\r\n}\r\nif (typeof Math.trunc === \"undefined\") {\r\n    Math.trunc = function(x) {\r\n
  if (isNaN(x)) {\r\n            return NaN;\r\n        }\r\n        if (x > 0) {\r\n            return Math.floor(x);\r\n        }\r\n
 return Math.ceil(x);\r\n    };\r\n}\r\n\r\n(function() {\r\n    var epsilon = 2.220446049250313E-16;\r\n    var
taylor_2_bound = Math.sqrt(epsilon);\r\n    var taylor_n_bound = Math.sqrt(taylor_2_bound);\r\n    var
upper_taylor_2_bound = 1/taylor_2_bound;\r\n    var upper_taylor_n_bound = 1/taylor_n_bound;\r\n\r\n    if (typeof
Math.sinh === \"undefined\") {\r\n        Math.sinh = function(x) {\r\n            if (Math.abs(x) < taylor_n_bound) {\r\n
                var result = x;\r\n                if (Math.abs(x) > taylor_2_bound) {\r\n                    result += (x * x * x) / 6;\r\n
                }\r\n                return result;\r\n            } else {\r\n                var y = Math.exp(x);\r\n                var y1 = 1 /
y;\r\n                if (!isFinite(y)) return Math.exp(x - Math.LN2);\r\n                if (!isFinite(y1)) return -Math.exp(-x -
Math.LN2);\r\n                return (y - y1) / 2;\r\n            }\r\n        };\r\n    }\r\n    if (typeof Math.cosh ===
\"undefined\") {\r\n        Math.cosh = function(x) {\r\n            var y = Math.exp(x);\r\n            var y1 = 1 / y;\r\n
 if (!isFinite(y) || !isFinite(y1)) return Math.exp(Math.abs(x) - Math.LN2);\r\n            return (y + y1) / 2;\r\n
};\r\n    }\r\n\r\n    if (typeof Math.tanh === \"undefined\") {\r\n        Math.tanh = function(x){\r\n            if
(Math.abs(x) < taylor_n_bound) {\r\n                var result = x;\r\n                if (Math.abs(x) > taylor_2_bound) {\r\n
                result -= (x * x * x) / 3;\r\n                }\r\n                return result;\r\n            }\r\n            else {\r\n
var a = Math.exp(+x), b = Math.exp(-x);\r\n                return a === Infinity ? 1 : b === Infinity ? -1 : (a - b) / (a +
b);\r\n            }\r\n        };\r\n    }\r\n\r\n    // Inverse hyperbolic function implementations derived from boost special
math functions,\r\n    // Copyright Eric Ford & Hubert Holin 2001.\r\n\r\n    if (typeof Math.asinh === \"undefined\")
{\r\n        var asinh = function(x) {\r\n            if (x >= +taylor_n_bound)\r\n            {\r\n                if (x >
upper_taylor_n_bound)\r\n                {\r\n                    if (x > upper_taylor_2_bound)\r\n                    {\r\n
   // approximation by laurent series in 1/x at 0+ order from -1 to 0\r\n                        return Math.log(x) +
Math.LN2;\r\n                    }\r\n                    else\r\n                    {\r\n                        // approximation by laurent
series in 1/x at 0+ order from -1 to 1\r\n                        return Math.log(x * 2 + (1 / (x * 2)));\r\n                    }\r\n
        }\r\n                else\r\n                {\r\n                    return Math.log(x + Math.sqrt(x * x + 1));\r\n                }\r\n
        }\r\n            else if (x <= -taylor_n_bound)\r\n            {\r\n                return -asinh(-x);\r\n            }\r\n
else\r\n            {\r\n                // approximation by taylor series in x at 0 up to order 2\r\n                var result = x;\r\n
            if (Math.abs(x) >= taylor_2_bound)\r\n                {\r\n                    var x3 = x * x * x;\r\n                    //
approximation by taylor series in x at 0 up to order 4\r\n                    result -= x3 / 6;\r\n                }\r\n
return result;\r\n            }\r\n        };\r\n        Math.asinh = asinh;\r\n    }\r\n    if (typeof Math.acosh ===
\"undefined\") {\r\n        Math.acosh = function(x) {\r\n            if (x < 1)\r\n            {\r\n                return NaN;\r\n
    }\r\n            else if (x - 1 >= taylor_n_bound)\r\n            {\r\n                if (x > upper_taylor_2_bound)\r\n
{\r\n                    // approximation by laurent series in 1/x at 0+ order from -1 to 0\r\n                    return Math.log(x)
+ Math.LN2;\r\n                }\r\n                else\r\n                {\r\n                    return Math.log(x + Math.sqrt(x * x -
1));\r\n                }\r\n            }\r\n            else\r\n            {\r\n                var y = Math.sqrt(x - 1);\r\n                //
approximation by taylor series in y at 0 up to order 2\r\n                var result = y;\r\n                if (y >=
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taylor_2_bound)\r\n    {\r\n        var y3 = y * y * y;\r\n        // approximation by taylor series in y at 0 up to order 4\r\n        result -= y3 / 12;\r\n    }\r\n\r\n        return Math.sqrt(2) * result;\r\n    }\r\n};\r\n}\r\n if (typeof Math.atanh === \"undefined\") {\r\n    Math.atanh = function(x) {\r\n    if (Math.abs(x) < taylor_n_bound) {\r\n        var result = x;\r\n        if (Math.abs(x) > taylor_2_bound) {\r\n        result += (x * x * x) / 3;\r\n    }\r\n        return result;\r\n    }\r\n        return Math.log((1 + x) / (1 - x)) / 2;\r\n    };\r\n}\r\n if (typeof Math.log1p === \"undefined\") {\r\n    Math.log1p = function(x) {\r\n        if (Math.abs(x) < taylor_n_bound) {\r\n        var x2 = x * x;\r\n        var x3 = x2 * x;\r\n        var x4 = x3 * x;\r\n        // approximation by taylor series in x at 0 up to order 4\r\n        return (-x4 / 4 + x3 / 3 - x2 / 2 + x);\r\n    }\r\n        return Math.log(x + 1);\r\n    };\r\n}\r\n if (typeof Math.expm1 === \"undefined\") {\r\n    Math.expm1 = function(x) {\r\n        if (Math.abs(x) < taylor_n_bound) {\r\n        var x2 = x * x;\r\n        var x3 = x2 * x;\r\n        var x4 = x3 * x;\r\n        // approximation by taylor series in x at 0 up to order 4\r\n        return (x4 / 24 + x3 / 6 + x2 / 2 + x);\r\n    }\r\n        return Math.exp(x) - 1;\r\n    };\r\n}\r\n})();\r\nif (typeof Math.hypot === \"undefined\") {\r\n    Math.hypot = function() {\r\n    var y = 0;\r\n    var length = arguments.length;\r\n\r\n    for (var i = 0; i < length; i++) {\r\n        if (arguments[i] === Infinity || arguments[i] === -Infinity) {\r\n        return Infinity;\r\n    }\r\n        y += arguments[i] * arguments[i];\r\n    }\r\n    return Math.sqrt(y);\r\n};\r\n}\r\nif (typeof Math.log10 === \"undefined\") {\r\n    Math.log10 = function(x) {\r\n    return Math.log(x) * Math.LOG10E;\r\n};\r\n}\r\nif (typeof Math.log2 === \"undefined\") {\r\n    Math.log2 = function(x) {\r\n    return Math.log(x) * Math.LOG2E;\r\n};\r\n}\r\nif (typeof Math.clz32 === \"undefined\") {\r\n    Math.clz32 = (function(log, LN2) {\r\n    return function(x) {\r\n        var asUint = x >>> 0;\r\n        if (asUint === 0) {\r\n        return 32;\r\n    }\r\n        return 31 - (log(asUint) / LN2 | 0) | 0; // the \"| 0\" acts like math.floor\r\n    };\r\n})(Math.log, Math.LN2);\r\n}\r\n\r\n// For HtmlUnit and PhantomJs\r\nif (typeof ArrayBuffer.isView === \"undefined\") {\r\n    ArrayBuffer.isView = function(a) {\r\n    return a != null && a.__proto__ != null && a.__proto__.__proto__ === Int8Array.prototype.__proto__;\r\n};\r\n}\r\n\r\nif (typeof Array.prototype.fill === \"undefined\") {\r\n    // Polyfill from https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array/fill#Polyfill\r\n    Array.prototype.fill = function() {\r\n    // Steps 1-2.\r\n    if (this == null) {\r\n        throw new TypeError('this is null or not defined');\r\n    }\r\n\r\n    var O = Object(this);\r\n\r\n    // Steps 3-5.\r\n    var len = O.length >>> 0;\r\n\r\n    // Steps 6-7.\r\n    var start = arguments[1];\r\n    var relativeStart = start >> 0;\r\n\r\n    // Step 8.\r\n    var k = relativeStart < 0 ?\r\n    Math.max(len + relativeStart, 0) :\r\n        Math.min(relativeStart, len);\r\n\r\n    // Steps 9-10.\r\n    var end = arguments[2];\r\n    var relativeEnd = end === undefined ?\r\n        len : end >> 0;\r\n\r\n    // Step 11.\r\n    var final = relativeEnd < 0 ?\r\n        Math.max(len + relativeEnd, 0) :\r\n        Math.min(relativeEnd, len);\r\n\r\n    // Step 12.\r\n    while (k < final) {\r\n        O[k] = value;\r\n        k++;\r\n    }\r\n\r\n    // Step 13.\r\n    return O;\r\n};\r\n}\r\n\r\n\r\n(function() {\r\n    function normalizeOffset(offset, length) {\r\n        if (offset < 0) return Math.max(0, offset + length);\r\n        return Math.min(offset, length);\r\n    }\r\n    function typedArraySlice(begin, end) {\r\n        if (typeof end === \"undefined\") {\r\n            end = this.length;\r\n        }\r\n        begin = normalizeOffset(begin || 0, this.length);\r\n        end = Math.max(begin, normalizeOffset(end, this.length));\r\n        return new this.constructor(this.subarray(begin, end));\r\n    }\r\n\r\n    var arrays = [Int8Array, Int16Array, Uint16Array, Int32Array, Float32Array, Float64Array];\r\n    for (var i = 0; i < arrays.length; ++i) {\r\n        var TypedArray = arrays[i];\r\n        if (typeof TypedArray.prototype.fill === \"undefined\") {\r\n            TypedArray.prototype.fill = Array.prototype.fill;\r\n        }\r\n        if (typeof TypedArray.prototype.slice === \"undefined\") {\r\n            Object.defineProperty(TypedArray.prototype, 'slice', {\r\n                value: typedArraySlice\r\n            });\r\n        }\r\n    }\r\n\r\n    // Patch apply to work with TypedArrays if needed.\r\n    try {\r\n        (function() {}).apply(null, new Int32Array(0))\r\n    } catch (e) {\r\n        var apply = Function.prototype.apply;\r\n        Object.defineProperty(Function.prototype, 'apply', {\r\n            value: function(self, array) {\r\n                return apply.call(this, self, [].slice.call(array));\r\n            }\r\n        });\r\n    }\r\n\r\n\r\n    // Patch map to work with TypedArrays if needed.\r\n    for (var i = 0; i < arrays.length; ++i) {\r\n        var TypedArray = arrays[i];\r\n        if (typeof TypedArray.prototype.map === \"undefined\") {\r\n
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Object.defineProperty(TypedArray.prototype, 'map', {\r\n value: function(callback, self) {\r\n return [].slice.call(this).map(callback, self);\r\n }\r\n });\r\n }\r\n }\r\n\r\n // Patch sort to work with TypedArrays if needed.\r\n // TODO: consider to remove following function and replace it with `Kotlin.doubleCompareTo` (see misc.js)\r\n var totalOrderComparator = function (a, b) {\r\n if (a < b) return -1;\r\n if (a > b) return 1;\r\n\r\n if (a === b) {\r\n if (a !== 0) return 0;\r\n\r\n var ia = 1 / a;\r\n return ia === 1 / b ? 0 : (ia < 0 ? -1 : 1);\r\n }\r\n\r\n return a !== a ? (b !== b ? 0 : 1) : -1\r\n };\r\n\r\n for (var i = 0; i < arrays.length; ++i) {\r\n var TypedArray = arrays[i];\r\n if (typeof TypedArray.prototype.sort === \"undefined\") {\r\n Object.defineProperty(TypedArray.prototype, 'sort', {\r\n value: function(compareFunction) {\r\n return Array.prototype.sort.call(this, compareFunction || totalOrderComparator);\r\n }\r\n });\r\n }\r\n }\r\n})();\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\nKotlin.Kind = {\r\n CLASS: \"class\",\r\n INTERFACE: \"interface\",\r\n OBJECT: \"object\"\r\n};\r\n\r\n\r\nKotlin.callGetter = function (thisObject, klass, propertyName) {\r\n var propertyDescriptor = Object.getOwnPropertyDescriptor(klass, propertyName);\r\n if (propertyDescriptor != null && propertyDescriptor.get != null) {\r\n return propertyDescriptor.get.call(thisObject);\r\n }\r\n\r\n\r\n propertyDescriptor = Object.getOwnPropertyDescriptor(thisObject, propertyName);\r\n if (propertyDescriptor != null && \"value\" in propertyDescriptor) {\r\n return thisObject[propertyName];\r\n }\r\n\r\n\r\n return Kotlin.callGetter(thisObject, Object.getPrototypeOf(klass), propertyName);\r\n};\r\n\r\n\r\nKotlin.callSetter = function (thisObject, klass, propertyName, value) {\r\n var propertyDescriptor = Object.getOwnPropertyDescriptor(klass, propertyName);\r\n if (propertyDescriptor != null && propertyDescriptor.set != null) {\r\n propertyDescriptor.set.call(thisObject, value);\r\n return;\r\n }\r\n\r\n\r\n propertyDescriptor = Object.getOwnPropertyDescriptor(thisObject, propertyName);\r\n if (propertyDescriptor != null && \"value\" in propertyDescriptor) {\r\n thisObject[propertyName] = value;\r\n return\r\n }\r\n\r\n\r\n Kotlin.callSetter(thisObject, Object.getPrototypeOf(klass), propertyName, value);\r\n};\r\n\r\n\r\nfunction isInheritanceFromInterface(ctor, iface) {\r\n if (ctor === iface) return true;\r\n\r\n\r\n var metadata = ctor.$metadata$;\r\n if (metadata != null) {\r\n var interfaces = metadata.interfaces;\r\n for (var i = 0; i < interfaces.length; i++) {\r\n if (isInheritanceFromInterface(interfaces[i], iface)) {\r\n return true;\r\n }\r\n }\r\n }\r\n\r\n\r\n var superPrototype = ctor.prototype != null ? Object.getPrototypeOf(ctor.prototype) : null;\r\n var superConstructor = superPrototype != null ? superPrototype.constructor : null;\r\n return superConstructor != null && isInheritanceFromInterface(superConstructor, iface);\r\n}\r\n\r\n\r\n/**\r\n *\r\n * @param {*} object\r\n * @param {Function|Object} klass\r\n * @returns {Boolean}\r\n */\r\nKotlin.isType = function (object, klass) {\r\n if (klass === Object) {\r\n switch (typeof object) {\r\n case \"string\":\r\n case \"number\":\r\n case \"boolean\":\r\n case \"function\":\r\n return true;\r\n default:\r\n return object instanceof Object;\r\n }\r\n }\r\n\r\n\r\n if (object == null || klass == null || (typeof object !== 'object' && typeof object !== 'function')) {\r\n return false;\r\n }\r\n\r\n\r\n if (typeof klass === \"function\" && object instanceof klass) {\r\n return true;\r\n }\r\n\r\n\r\n var proto = Object.getPrototypeOf(klass);\r\n var constructor = proto != null ? proto.constructor : null;\r\n if (constructor != null && \"$metadata$\" in constructor) {\r\n var metadata = constructor.$metadata$;\r\n if (metadata.kind === Kotlin.Kind.OBJECT) {\r\n return object === klass;\r\n }\r\n }\r\n\r\n\r\n var klassMetadata = klass.$metadata$;\r\n\r\n\r\n // In WebKit (JavaScriptCore) for some interfaces from DOM typeof returns \"object\", nevertheless they can be used in RHS of instanceof\r\n if (klassMetadata == null) {\r\n return object instanceof klass;\r\n }\r\n\r\n\r\n if (klassMetadata.kind === Kotlin.Kind.INTERFACE && object.constructor != null) {\r\n return isInheritanceFromInterface(object.constructor, klass);\r\n }\r\n\r\n\r\n return false;\r\n};\r\n\r\n\r\nKotlin.isNumber = function (a) {\r\n return typeof a == \"number\" || a instanceof Kotlin.Long;\r\n};\r\n\r\n\r\nKotlin.isChar = function (value) {\r\n return value instanceof Kotlin.BoxedChar\r\n};\r\n\r\n\r\nKotlin.isComparable = function (value) {\r\n var type = typeof value;\r\n\r\n\r\n return type === \"string\" ||\r\n type === \"boolean\" ||\r\n Kotlin.isNumber(value) ||\r\n Kotlin.isType(value,

Kotlin.kotlin.Comparable);\r\n};\r\n\r\nKotlin.isCharSequence = function (value) {\r\n   return typeof value === \"string\" || Kotlin.isType(value, Kotlin.kotlin.CharSequence);\r\n};",null,"/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin\r\n\r\npublic class Enum<T : Enum<T>> : Comparable<Enum<T>> {\r\n   @JsName(\"name$\") private var _name: String = \"\"\r\n   @JsName(\"ordinal$\") private var _ordinal: Int = 0\r\n\r\n   val name: String\r\n   get() = _name\r\n\r\n   val ordinal: Int\r\n   get() = _ordinal\r\n\r\n   override fun compareTo(other: Enum<T>) = ordinal.compareTo(other.ordinal)\r\n\r\n   override fun equals(other: Any?) = this === other\r\n\r\n   override fun hashCode(): Int = js(\"Kotlin.identityHashCode\")(this)\r\n\r\n   override fun toString() = name\r\n\r\n   companion object\r\n}",null,"/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"ArraysKt\")\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns 1st *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component1(): T {\n   return get(0)\n}\n\n/**\n * Returns 1st *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component1(): Byte {\n   return get(0)\n}\n\n/**\n * Returns 1st *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component1(): Short {\n   return get(0)\n}\n\n/**\n * Returns 1st *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component1(): Int {\n   return get(0)\n}\n\n/**\n * Returns 1st *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component1(): Long {\n   return get(0)\n}\n\n/**\n * Returns 1st *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component1(): Float {\n   return get(0)\n}\n\n/**\n * Returns 1st *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component1(): Double {\n   return get(0)\n}\n\n/**\n * Returns 1st *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component1(): Boolean {\n   return get(0)\n}\n\n/**\n * Returns 1st *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component1(): Char {\n   return get(0)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component2(): T {\n   return get(1)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component2(): Byte {\n   return get(1)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component2(): Short {\n   return get(1)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component2(): Int {\n   return get(1)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component2(): Long {\n   return get(1)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component2(): Float {\n   return get(1)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component2(): Double {\n   return get(1)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component2(): Boolean {\n   return get(1)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component2(): Char {\n   return get(1)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component3(): T {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component3(): Byte {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component3(): Short {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic

inline operator fun IntArray.component3(): Int {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component3(): Long {\n return get(2)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component3(): Float {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component3(): Double {\n return get(2)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component3(): Boolean {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component3(): Char {\n   return get(2)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component4(): T {\n   return get(3)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component4(): Byte {\n   return get(3)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component4(): Short {\n return get(3)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component4(): Int {\n   return get(3)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component4(): Long {\n return get(3)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component4(): Float {\n   return get(3)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component4(): Double {\n return get(3)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component4(): Boolean {\n   return get(3)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component4(): Char {\n   return get(3)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component5(): T {\n   return get(4)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component5(): Byte {\n   return get(4)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component5(): Short {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component5(): Int {\n   return get(4)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component5(): Long {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component5(): Float {\n   return get(4)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component5(): Double {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component5(): Boolean {\n   return get(4)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component5(): Char {\n   return get(4)\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun <@kotlin.internal.OnlyInputTypes T> Array<out T>.contains(element: T): Boolean {\n   return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun ByteArray.contains(element: Byte): Boolean {\n   return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun ShortArray.contains(element: Short): Boolean {\n   return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun IntArray.contains(element: Int): Boolean {\n   return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun LongArray.contains(element: Long): Boolean {\n   return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun FloatArray.contains(element: Float): Boolean {\n   return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun DoubleArray.contains(element: Double): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator

fun BooleanArray.contains(element: Boolean): Boolean {\n   return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun CharArray.contains(element: Char): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun <T> Array<out T>.elementAt(index: Int): T\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun ByteArray.elementAt(index: Int): Byte\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun ShortArray.elementAt(index: Int): Short\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun IntArray.elementAt(index: Int): Int\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun LongArray.elementAt(index: Int): Long\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun FloatArray.elementAt(index: Int): Float\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun DoubleArray.elementAt(index: Int): Double\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun BooleanArray.elementAt(index: Int): Boolean\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun CharArray.elementAt(index: Int): Char\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Byte): Byte {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Short): Short {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Int): Int {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Long): Long {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun

FloatArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Float): Float {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Double): Double {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Boolean): Boolean {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.elementAtOrNull(index: Int): T? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.elementAtOrNull(index: Int): Byte? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.elementAtOrNull(index: Int): Short? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.elementAtOrNull(index: Int): Int? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.elementAtOrNull(index: Int): Long? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.elementAtOrNull(index: Int): Float? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.elementAtOrNull(index: Int): Double? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.elementAtOrNull(index: Int): Boolean? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.elementAtOrNull(index: Int): Char? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.find(predicate: (T) -> Boolean): T? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.find(predicate: (Byte) -> Boolean): Byte? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.find(predicate: (Short) -> Boolean): Short? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the

first element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.find(predicate: (Int) -> Boolean): Int? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.find(predicate: (Long) -> Boolean): Long? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.find(predicate: (Float) -> Boolean): Float? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.find(predicate: (Double) -> Boolean): Double? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.find(predicate: (Boolean) -> Boolean): Boolean? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.find(predicate: (Char) -> Boolean): Char? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.findLast(predicate: (T) -> Boolean): T? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.findLast(predicate: (Byte) -> Boolean): Byte? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.findLast(predicate: (Short) -> Boolean): Short? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.findLast(predicate: (Int) -> Boolean): Int? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.findLast(predicate: (Long) -> Boolean): Long? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.findLast(predicate: (Float) -> Boolean): Float? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.findLast(predicate: (Double) -> Boolean): Double? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.findLast(predicate: (Boolean) -> Boolean): Boolean? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.findLast(predicate: (Char) -> Boolean): Char? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun <T> Array<out T>.first(): T {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun ByteArray.first(): Byte {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun ShortArray.first(): Short {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun IntArray.first(): Int {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun LongArray.first(): Long {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun FloatArray.first(): Float {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[0]\n}\n\n/**\n *

Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun DoubleArray.first(): Double {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun BooleanArray.first(): Boolean {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun CharArray.first(): Char {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun <T> Array<out T>.first(predicate: (T) -> Boolean): T {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun ByteArray.first(predicate: (Byte) -> Boolean): Byte {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun ShortArray.first(predicate: (Short) -> Boolean): Short {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun IntArray.first(predicate: (Int) -> Boolean): Int {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun LongArray.first(predicate: (Long) -> Boolean): Long {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun FloatArray.first(predicate: (Float) -> Boolean): Float {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun DoubleArray.first(predicate: (Double) -> Boolean): Double {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun BooleanArray.first(predicate: (Boolean) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun CharArray.first(predicate: (Char) -> Boolean): Char {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun <T> Array<out T>.firstOrNull(): T? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun ByteArray.firstOrNull(): Byte? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun ShortArray.firstOrNull(): Short? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun IntArray.firstOrNull(): Int? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun LongArray.firstOrNull(): Long? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun FloatArray.firstOrNull(): Float? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun DoubleArray.firstOrNull(): Double? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns

the first element, or `null` if the array is empty.\n */\npublic fun BooleanArray.firstOrNull(): Boolean? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun CharArray.firstOrNull(): Char? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun <T> Array<out T>.firstOrNull(predicate: (T) -> Boolean): T? {\n for (element in this) if (predicate(element)) return element\n return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun ByteArray.firstOrNull(predicate: (Byte) -> Boolean): Byte? {\n for (element in this) if (predicate(element)) return element\n return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun ShortArray.firstOrNull(predicate: (Short) -> Boolean): Short? {\n for (element in this) if (predicate(element)) return element\n return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun IntArray.firstOrNull(predicate: (Int) -> Boolean): Int? {\n for (element in this) if (predicate(element)) return element\n return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun LongArray.firstOrNull(predicate: (Long) -> Boolean): Long? {\n for (element in this) if (predicate(element)) return element\n return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun FloatArray.firstOrNull(predicate: (Float) -> Boolean): Float? {\n for (element in this) if (predicate(element)) return element\n return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun DoubleArray.firstOrNull(predicate: (Double) -> Boolean): Double? {\n for (element in this) if (predicate(element)) return element\n return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun BooleanArray.firstOrNull(predicate: (Boolean) -> Boolean): Boolean? {\n for (element in this) if (predicate(element)) return element\n return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun CharArray.firstOrNull(predicate: (Char) -> Boolean): Char? {\n for (element in this) if (predicate(element)) return element\n return null\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.getOrElse(index: Int, defaultValue: (Int) -> T): T {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.getOrElse(index: Int, defaultValue: (Int) -> Byte): Byte {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.getOrElse(index: Int, defaultValue: (Int) -> Short): Short {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.getOrElse(index: Int, defaultValue: (Int) -> Int): Int {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.getOrElse(index: Int, defaultValue: (Int) -> Long): Long {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.getOrElse(index: Int, defaultValue: (Int) -> Float): Float {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.getOrElse(index: Int, defaultValue: (Int) -> Double): Double {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n

* Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.getOrElse(index: Int, defaultValue: (Int) -> Boolean): Boolean {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.getOrElse(index: Int, defaultValue: (Int) -> Char): Char {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\npublic fun <T> Array<out T>.getOrNull(index: Int): T? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\npublic fun ByteArray.getOrNull(index: Int): Byte? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\npublic fun ShortArray.getOrNull(index: Int): Short? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\npublic fun IntArray.getOrNull(index: Int): Int? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\npublic fun LongArray.getOrNull(index: Int): Long? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\npublic fun FloatArray.getOrNull(index: Int): Float? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\npublic fun DoubleArray.getOrNull(index: Int): Double? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\npublic fun BooleanArray.getOrNull(index: Int): Boolean? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\npublic fun CharArray.getOrNull(index: Int): Char? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Array<out T>.indexOf(element: T): Int {\n if (element == null) {\n for (index in indices) {\n if (this[index] == null) {\n return index\n }\n }\n } else {\n for (index in indices) {\n if (element == this[index]) {\n return index\n }\n }\n }\n return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun ByteArray.indexOf(element: Byte): Int {\n for (index in indices) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun ShortArray.indexOf(element: Short): Int {\n for (index in indices) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun IntArray.indexOf(element: Int): Int {\n for (index in indices) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun LongArray.indexOf(element: Long): Int {\n for (index in indices) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun FloatArray.indexOf(element: Float): Int {\n for (index in indices) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun DoubleArray.indexOf(element: Double): Int {\n for (index in indices) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun BooleanArray.indexOf(element: Boolean): Int {\n for (index in indices) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun CharArray.indexOf(element: Char): Int {\n for (index in indices) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first

element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun <T> Array<out T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n for (index in indices) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun ByteArray.indexOfFirst(predicate: (Byte) -> Boolean): Int {\n for (index in indices) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun ShortArray.indexOfFirst(predicate: (Short) -> Boolean): Int {\n for (index in indices) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun IntArray.indexOfFirst(predicate: (Int) -> Boolean): Int {\n for (index in indices) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun LongArray.indexOfFirst(predicate: (Long) -> Boolean): Int {\n for (index in indices) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun FloatArray.indexOfFirst(predicate: (Float) -> Boolean): Int {\n for (index in indices) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun DoubleArray.indexOfFirst(predicate: (Double) -> Boolean): Int {\n for (index in indices) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun BooleanArray.indexOfFirst(predicate: (Boolean) -> Boolean): Int {\n for (index in indices) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun CharArray.indexOfFirst(predicate: (Char) -> Boolean): Int {\n for (index in indices) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun <T> Array<out T>.indexOfLast(predicate: (T) -> Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun ByteArray.indexOfLast(predicate: (Byte) -> Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun ShortArray.indexOfLast(predicate: (Short) -> Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun IntArray.indexOfLast(predicate: (Int) -> Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun LongArray.indexOfLast(predicate: (Long) -> Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun FloatArray.indexOfLast(predicate: (Float) -> Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun DoubleArray.indexOfLast(predicate: (Double) -> Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last

element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun BooleanArray.indexOfLast(predicate: (Boolean) -> Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun CharArray.indexOfLast(predicate: (Char) -> Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun <T> Array<out T>.last(): T {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun ByteArray.last(): Byte {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun ShortArray.last(): Short {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun IntArray.last(): Int {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun LongArray.last(): Long {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun FloatArray.last(): Float {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun DoubleArray.last(): Double {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun BooleanArray.last(): Boolean {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun CharArray.last(): Char {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun <T> Array<out T>.last(predicate: (T) -> Boolean): T {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun ByteArray.last(predicate: (Byte) -> Boolean): Byte {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun ShortArray.last(predicate: (Short) -> Boolean): Short {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun IntArray.last(predicate: (Int) -> Boolean): Int {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun LongArray.last(predicate: (Long) -> Boolean): Long {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun FloatArray.last(predicate: (Float) ->

Boolean): Float {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun DoubleArray.last(predicate: (Double) -> Boolean): Double {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun BooleanArray.last(predicate: (Boolean) -> Boolean): Boolean {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun CharArray.last(predicate: (Char) -> Boolean): Char {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Array<out T>.lastIndexOf(element: T): Int {\n if (element == null) {\n for (index in indices.reversed()) {\n if (this[index] == null) {\n return index\n }\n }\n } else {\n for (index in indices.reversed()) {\n if (element == this[index]) {\n return index\n }\n }\n }\n return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun ByteArray.lastIndexOf(element: Byte): Int {\n for (index in indices.reversed()) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun ShortArray.lastIndexOf(element: Short): Int {\n for (index in indices.reversed()) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun IntArray.lastIndexOf(element: Int): Int {\n for (index in indices.reversed()) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun LongArray.lastIndexOf(element: Long): Int {\n for (index in indices.reversed()) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun FloatArray.lastIndexOf(element: Float): Int {\n for (index in indices.reversed()) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun DoubleArray.lastIndexOf(element: Double): Int {\n for (index in indices.reversed()) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun BooleanArray.lastIndexOf(element: Boolean): Int {\n for (index in indices.reversed()) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun CharArray.lastIndexOf(element: Char): Int {\n for (index in indices.reversed()) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\npublic fun <T> Array<out T>.lastOrNull(): T? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\npublic fun ByteArray.lastOrNull(): Byte? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\npublic fun ShortArray.lastOrNull(): Short? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\npublic fun IntArray.lastOrNull(): Int? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\npublic fun LongArray.lastOrNull(): Long? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\npublic fun FloatArray.lastOrNull(): Float? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n

*/\npublic fun DoubleArray.lastOrNull(): Double? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\npublic fun BooleanArray.lastOrNull(): Boolean? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\npublic fun CharArray.lastOrNull(): Char? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun <T> Array<out T>.lastOrNull(predicate: (T) -> Boolean): T? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun ByteArray.lastOrNull(predicate: (Byte) -> Boolean): Byte? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun ShortArray.lastOrNull(predicate: (Short) -> Boolean): Short? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun IntArray.lastOrNull(predicate: (Int) -> Boolean): Int? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun LongArray.lastOrNull(predicate: (Long) -> Boolean): Long? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun FloatArray.lastOrNull(predicate: (Float) -> Boolean): Float? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun DoubleArray.lastOrNull(predicate: (Double) -> Boolean): Double? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun BooleanArray.lastOrNull(predicate: (Boolean) -> Boolean): Boolean? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun CharArray.lastOrNull(predicate: (Char) -> Boolean): Char? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.random(): T {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.random(): Byte {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.random(): Short {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.random(): Int {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.random(): Long {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.random(): Float {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.random(): Double {\n

return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.random(): Boolean {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.random(): Char {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun <T> Array<out T>.random(random: Random): T {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun ByteArray.random(random: Random): Byte {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun ShortArray.random(random: Random): Short {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun IntArray.random(random: Random): Int {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun LongArray.random(random: Random): Long {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun FloatArray.random(random: Random): Float {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun DoubleArray.random(random: Random): Double {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun BooleanArray.random(random: Random): Boolean {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun CharArray.random(random: Random): Char {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun <T> Array<out T>.single(): T {\n return when (size) {\n 0 -> throw NoSuchElementException(\"Array is empty.\")\n 1 -> this[0]\n else -> throw IllegalArgumentException(\"Array has more than one element.\")\n }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun ByteArray.single(): Byte {\n return when (size) {\n 0 -> throw NoSuchElementException(\"Array is empty.\")\n 1 -> this[0]\n else -> throw IllegalArgumentException(\"Array has more than one element.\")\n }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun ShortArray.single(): Short {\n return when (size) {\n 0 -> throw NoSuchElementException(\"Array is empty.\")\n 1 -> this[0]\n else -> throw IllegalArgumentException(\"Array has more than one element.\")\n }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun IntArray.single(): Int {\n return when (size) {\n 0 -> throw

NoSuchElementException(\"Array is empty.\")\n 1 -> this[0]\n else -> throw IllegalArgumentException(\"Array has more than one element.\")\n }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun LongArray.single(): Long {\n return when (size) {\n 0 -> throw NoSuchElementException(\"Array is empty.\")\n 1 -> this[0]\n else -> throw IllegalArgumentException(\"Array has more than one element.\")\n }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun FloatArray.single(): Float {\n return when (size) {\n 0 -> throw NoSuchElementException(\"Array is empty.\")\n 1 -> this[0]\n else -> throw IllegalArgumentException(\"Array has more than one element.\")\n }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun DoubleArray.single(): Double {\n return when (size) {\n 0 -> throw NoSuchElementException(\"Array is empty.\")\n 1 -> this[0]\n else -> throw IllegalArgumentException(\"Array has more than one element.\")\n }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun BooleanArray.single(): Boolean {\n return when (size) {\n 0 -> throw NoSuchElementException(\"Array is empty.\")\n 1 -> this[0]\n else -> throw IllegalArgumentException(\"Array has more than one element.\")\n }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun CharArray.single(): Char {\n return when (size) {\n 0 -> throw NoSuchElementException(\"Array is empty.\")\n 1 -> this[0]\n else -> throw IllegalArgumentException(\"Array has more than one element.\")\n }\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun <T> Array<out T>.single(predicate: (T) -> Boolean): T {\n var single: T? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n single = element\n found = true\n }\n }\n if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n @Suppress(\"UNCHECKED_CAST\")\n return single as T\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun ByteArray.single(predicate: (Byte) -> Boolean): Byte {\n var single: Byte? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n single = element\n found = true\n }\n }\n if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n @Suppress(\"UNCHECKED_CAST\")\n return single as Byte\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun ShortArray.single(predicate: (Short) -> Boolean): Short {\n var single: Short? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n single = element\n found = true\n }\n }\n if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n @Suppress(\"UNCHECKED_CAST\")\n return single as Short\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun IntArray.single(predicate: (Int) -> Boolean): Int {\n var single: Int? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n single = element\n found = true\n }\n }\n if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n @Suppress(\"UNCHECKED_CAST\")\n return single as Int\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun LongArray.single(predicate: (Long) -> Boolean): Long {\n var single: Long? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n single = element\n found = true\n }\n }\n if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n @Suppress(\"UNCHECKED_CAST\")\n return single as Long\n}\n\n/**\n * Returns the

single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun FloatArray.single(predicate: (Float) -> Boolean): Float {\n var single: Float? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n single = element\n found = true\n }\n }\n if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n @Suppress(\"UNCHECKED_CAST\")\n return single as Float\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun DoubleArray.single(predicate: (Double) -> Boolean): Double {\n var single: Double? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n single = element\n found = true\n }\n }\n if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n @Suppress(\"UNCHECKED_CAST\")\n return single as Double\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun BooleanArray.single(predicate: (Boolean) -> Boolean): Boolean {\n var single: Boolean? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n single = element\n found = true\n }\n }\n if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n @Suppress(\"UNCHECKED_CAST\")\n return single as Boolean\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun CharArray.single(predicate: (Char) -> Boolean): Char {\n var single: Char? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n single = element\n found = true\n }\n }\n if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n @Suppress(\"UNCHECKED_CAST\")\n return single as Char\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun <T> Array<out T>.singleOrNull(): T? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun ByteArray.singleOrNull(): Byte? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun ShortArray.singleOrNull(): Short? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun IntArray.singleOrNull(): Int? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun LongArray.singleOrNull(): Long? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun FloatArray.singleOrNull(): Float? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun DoubleArray.singleOrNull(): Double? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun BooleanArray.singleOrNull(): Boolean? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun CharArray.singleOrNull(): Char? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun <T> Array<out T>.singleOrNull(predicate: (T) -> Boolean): T? {\n var single: T? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun ByteArray.singleOrNull(predicate: (Byte) -> Boolean): Byte? {\n var single: Byte? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element

matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun ShortArray.singleOrNull(predicate: (Short) -> Boolean): Short? {\n var single: Short? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun IntArray.singleOrNull(predicate: (Int) -> Boolean): Int? {\n var single: Int? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun LongArray.singleOrNull(predicate: (Long) -> Boolean): Long? {\n var single: Long? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun FloatArray.singleOrNull(predicate: (Float) -> Boolean): Float? {\n var single: Float? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun DoubleArray.singleOrNull(predicate: (Double) -> Boolean): Double? {\n var single: Double? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun BooleanArray.singleOrNull(predicate: (Boolean) -> Boolean): Boolean? {\n var single: Boolean? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun CharArray.singleOrNull(predicate: (Char) -> Boolean): Char? {\n var single: Char? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Array<out T>.drop(n: Int): List<T> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun ByteArray.drop(n: Int): List<Byte> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun ShortArray.drop(n: Int): List<Short> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun IntArray.drop(n: Int): List<Int> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun LongArray.drop(n: Int): List<Long> {\n

require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun FloatArray.drop(n: Int): List<Float> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun DoubleArray.drop(n: Int): List<Double> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun BooleanArray.drop(n: Int): List<Boolean> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun CharArray.drop(n: Int): List<Char> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Array<out T>.dropLast(n: Int): List<T> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun ByteArray.dropLast(n: Int): List<Byte> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun ShortArray.dropLast(n: Int): List<Short> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun IntArray.dropLast(n: Int): List<Int> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun LongArray.dropLast(n: Int): List<Long> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun FloatArray.dropLast(n: Int): List<Float> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun DoubleArray.dropLast(n: Int): List<Double> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun BooleanArray.dropLast(n: Int):

List<Boolean> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun CharArray.dropLast(n: Int): List<Char> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun <T> Array<out T>.dropLastWhile(predicate: (T) -> Boolean): List<T> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun ByteArray.dropLastWhile(predicate: (Byte) -> Boolean): List<Byte> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun ShortArray.dropLastWhile(predicate: (Short) -> Boolean): List<Short> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun IntArray.dropLastWhile(predicate: (Int) -> Boolean): List<Int> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun LongArray.dropLastWhile(predicate: (Long) -> Boolean): List<Long> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun FloatArray.dropLastWhile(predicate: (Float) -> Boolean): List<Float> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun DoubleArray.dropLastWhile(predicate: (Double) -> Boolean): List<Double> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun BooleanArray.dropLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun CharArray.dropLastWhile(predicate: (Char) -> Boolean): List<Char> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun <T> Array<out T>.dropWhile(predicate: (T) -> Boolean): List<T> {\n var yielding = false\n val list = ArrayList<T>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun ByteArray.dropWhile(predicate: (Byte) -> Boolean): List<Byte> {\n var yielding = false\n val list =

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ArrayList<Byte>()\n    for (item in this)\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n            list.add(item)\n            yielding = true\n        }\n    return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun ShortArray.dropWhile(predicate: (Short) -> Boolean): List<Short> {\n    var yielding = false\n    val list = ArrayList<Short>()\n    for (item in this)\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n            list.add(item)\n            yielding = true\n        }\n    return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun IntArray.dropWhile(predicate: (Int) -> Boolean): List<Int> {\n    var yielding = false\n    val list = ArrayList<Int>()\n    for (item in this)\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n            list.add(item)\n            yielding = true\n        }\n    return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun LongArray.dropWhile(predicate: (Long) -> Boolean): List<Long> {\n    var yielding = false\n    val list = ArrayList<Long>()\n    for (item in this)\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n            list.add(item)\n            yielding = true\n        }\n    return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun FloatArray.dropWhile(predicate: (Float) -> Boolean): List<Float> {\n    var yielding = false\n    val list = ArrayList<Float>()\n    for (item in this)\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n            list.add(item)\n            yielding = true\n        }\n    return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun DoubleArray.dropWhile(predicate: (Double) -> Boolean): List<Double> {\n    var yielding = false\n    val list = ArrayList<Double>()\n    for (item in this)\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n            list.add(item)\n            yielding = true\n        }\n    return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun BooleanArray.dropWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n    var yielding = false\n    val list = ArrayList<Boolean>()\n    for (item in this)\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n            list.add(item)\n            yielding = true\n        }\n    return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun CharArray.dropWhile(predicate: (Char) -> Boolean): List<Char> {\n    var yielding = false\n    val list = ArrayList<Char>()\n    for (item in this)\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n            list.add(item)\n            yielding = true\n        }\n    return list\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\npublic inline fun <T> Array<out T>.filter(predicate: (T) -> Boolean): List<T> {\n    return filterTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\npublic inline fun ByteArray.filter(predicate: (Byte) -> Boolean): List<Byte> {\n    return filterTo(ArrayList<Byte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\npublic inline fun ShortArray.filter(predicate: (Short) -> Boolean): List<Short> {\n    return filterTo(ArrayList<Short>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\npublic inline fun IntArray.filter(predicate: (Int) -> Boolean): List<Int> {\n    return filterTo(ArrayList<Int>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\npublic inline fun LongArray.filter(predicate: (Long) -> Boolean): List<Long> {\n    return filterTo(ArrayList<Long>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\npublic inline fun FloatArray.filter(predicate: (Float) -> Boolean): List<Float> {\n    return filterTo(ArrayList<Float>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\npublic inline fun DoubleArray.filter(predicate: (Double) -> Boolean): List<Double> {\n    return filterTo(ArrayList<Double>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given
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[predicate].\n */\npublic inline fun BooleanArray.filter(predicate: (Boolean) -> Boolean): List<Boolean> {\n return filterTo(ArrayList<Boolean>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\npublic inline fun CharArray.filter(predicate: (Char) -> Boolean): List<Char> {\n return filterTo(ArrayList<Char>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <T> Array<out T>.filterIndexed(predicate: (index: Int, T) -> Boolean): List<T> {\n return filterIndexedTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun ByteArray.filterIndexed(predicate: (index: Int, Byte) -> Boolean): List<Byte> {\n return filterIndexedTo(ArrayList<Byte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun ShortArray.filterIndexed(predicate: (index: Int, Short) -> Boolean): List<Short> {\n return filterIndexedTo(ArrayList<Short>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun IntArray.filterIndexed(predicate: (index: Int, Int) -> Boolean): List<Int> {\n return filterIndexedTo(ArrayList<Int>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun LongArray.filterIndexed(predicate: (index: Int, Long) -> Boolean): List<Long> {\n return filterIndexedTo(ArrayList<Long>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun FloatArray.filterIndexed(predicate: (index: Int, Float) -> Boolean): List<Float> {\n return filterIndexedTo(ArrayList<Float>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun DoubleArray.filterIndexed(predicate: (index: Int, Double) -> Boolean): List<Double> {\n return filterIndexedTo(ArrayList<Double>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun BooleanArray.filterIndexed(predicate: (index: Int, Boolean) -> Boolean): List<Boolean> {\n return filterIndexedTo(ArrayList<Boolean>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun CharArray.filterIndexed(predicate: (index: Int, Char) -> Boolean): List<Char> {\n return filterIndexedTo(ArrayList<Char>(), predicate)\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <T, C : MutableCollection<in T>> Array<out T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <C : MutableCollection<in Byte>> ByteArray.filterIndexedTo(destination: C, predicate: (index: Int, Byte) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of

predicate evaluation on the element.\n */\npublic inline fun <C : MutableCollection<in Short>> ShortArray.filterIndexedTo(destination: C, predicate: (index: Int, Short) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <C : MutableCollection<in Int>> IntArray.filterIndexedTo(destination: C, predicate: (index: Int, Int) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <C : MutableCollection<in Long>> LongArray.filterIndexedTo(destination: C, predicate: (index: Int, Long) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <C : MutableCollection<in Float>> FloatArray.filterIndexedTo(destination: C, predicate: (index: Int, Float) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <C : MutableCollection<in Double>> DoubleArray.filterIndexedTo(destination: C, predicate: (index: Int, Double) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <C : MutableCollection<in Boolean>> BooleanArray.filterIndexedTo(destination: C, predicate: (index: Int, Boolean) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <C : MutableCollection<in Char>> CharArray.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n   return destination\n}\n\n/**\n * Returns a list containing all elements that are instances of specified type parameter R.\n */\npublic inline fun <reified R> Array<*>.filterIsInstance(): List<@kotlin.internal.NoInfer R> {\n   return filterIsInstanceTo(ArrayList<R>())\n}\n\n/**\n * Appends all elements that are instances of specified type parameter R to the given [destination].\n */\npublic inline fun <reified R, C : MutableCollection<in R>> Array<*>.filterIsInstanceTo(destination: C): C {\n   for (element in this) if (element is R) destination.add(element)\n   return destination\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\npublic inline fun <T> Array<out T>.filterNot(predicate: (T) -> Boolean): List<T> {\n   return filterNotTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\npublic inline fun ByteArray.filterNot(predicate: (Byte) -> Boolean): List<Byte> {\n   return filterNotTo(ArrayList<Byte>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\npublic inline fun ShortArray.filterNot(predicate: (Short) -> Boolean): List<Short> {\n   return filterNotTo(ArrayList<Short>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\npublic inline fun IntArray.filterNot(predicate: (Int) -> Boolean): List<Int> {\n   return filterNotTo(ArrayList<Int>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\npublic inline fun LongArray.filterNot(predicate: (Long) -> Boolean): List<Long> {\n   return filterNotTo(ArrayList<Long>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the

given [predicate].\n */\npublic inline fun FloatArray.filterNot(predicate: (Float) -> Boolean): List<Float> {\n return filterNotTo(ArrayList<Float>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\npublic inline fun DoubleArray.filterNot(predicate: (Double) -> Boolean): List<Double> {\n return filterNotTo(ArrayList<Double>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\npublic inline fun BooleanArray.filterNot(predicate: (Boolean) -> Boolean): List<Boolean> {\n return filterNotTo(ArrayList<Boolean>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\npublic inline fun CharArray.filterNot(predicate: (Char) -> Boolean): List<Char> {\n return filterNotTo(ArrayList<Char>(), predicate)\n}\n\n/**\n * Returns a list containing all elements that are not `null`.\n */\npublic fun <T : Any> Array<out T?>.filterNotNull(): List<T> {\n return filterNotNullTo(ArrayList<T>())\n}\n\n/**\n * Appends all elements that are not `null` to the given [destination].\n */\npublic fun <C : MutableCollection<in T>, T : Any> Array<out T?>.filterNotNullTo(destination: C): C {\n for (element in this) if (element != null) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n */\npublic inline fun <T, C : MutableCollection<in T>> Array<out T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Byte>> ByteArray.filterNotTo(destination: C, predicate: (Byte) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Short>> ShortArray.filterNotTo(destination: C, predicate: (Short) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Int>> IntArray.filterNotTo(destination: C, predicate: (Int) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Long>> LongArray.filterNotTo(destination: C, predicate: (Long) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Float>> FloatArray.filterNotTo(destination: C, predicate: (Float) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Double>> DoubleArray.filterNotTo(destination: C, predicate: (Double) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Boolean>> BooleanArray.filterNotTo(destination: C, predicate: (Boolean) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Char>> CharArray.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n */\npublic inline fun <T, C : MutableCollection<in T>> Array<out T>.filterTo(destination: C, predicate: (T) -> Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Byte>> ByteArray.filterTo(destination: C, predicate: (Byte) -> Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Short>> ShortArray.filterTo(destination: C, predicate: (Short) -> Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n

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*/\npublic inline fun <C : MutableCollection<in Int>> IntArray.filterTo(destination: C, predicate: (Int) -> Boolean): C {\n    for (element in this) if (predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Long>> LongArray.filterTo(destination: C, predicate: (Long) -> Boolean): C {\n    for (element in this) if (predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Float>> FloatArray.filterTo(destination: C, predicate: (Float) -> Boolean): C {\n    for (element in this) if (predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Double>> DoubleArray.filterTo(destination: C, predicate: (Double) -> Boolean): C {\n    for (element in this) if (predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Boolean>> BooleanArray.filterTo(destination: C, predicate: (Boolean) -> Boolean): C {\n    for (element in this) if (predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Char>> CharArray.filterTo(destination: C, predicate: (Char) -> Boolean): C {\n    for (element in this) if (predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun <T> Array<out T>.slice(indices: IntRange): List<T> {\n    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun ByteArray.slice(indices: IntRange): List<Byte> {\n    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun ShortArray.slice(indices: IntRange): List<Short> {\n    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun IntArray.slice(indices: IntRange): List<Int> {\n    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun LongArray.slice(indices: IntRange): List<Long> {\n    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun FloatArray.slice(indices: IntRange): List<Float> {\n    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun DoubleArray.slice(indices: IntRange): List<Double> {\n    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun BooleanArray.slice(indices: IntRange): List<Boolean> {\n    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun CharArray.slice(indices: IntRange): List<Char> {\n    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun <T> Array<out T>.slice(indices: Iterable<Int>): List<T> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<T>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun ByteArray.slice(indices: Iterable<Int>): List<Byte> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<Byte>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun ShortArray.slice(indices: Iterable<Int>): List<Short> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<Short>(size)\n    for (index in indices) {\n
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list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun IntArray.slice(indices: Iterable<Int>): List<Int> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<Int>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun LongArray.slice(indices: Iterable<Int>): List<Long> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<Long>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun FloatArray.slice(indices: Iterable<Int>): List<Float> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<Float>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun DoubleArray.slice(indices: Iterable<Int>): List<Double> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<Double>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun BooleanArray.slice(indices: Iterable<Int>): List<Boolean> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<Boolean>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun CharArray.slice(indices: Iterable<Int>): List<Char> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<Char>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun <T> Array<T>.sliceArray(indices: Collection<Int>): Array<T> {\n   val result = arrayOfNulls(this, indices.size)\n   var targetIndex = 0\n   for (sourceIndex in indices) {\n   result[targetIndex++] = this[sourceIndex]\n   }\n   return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun ByteArray.sliceArray(indices: Collection<Int>): ByteArray {\n   val result = ByteArray(indices.size)\n   var targetIndex = 0\n   for (sourceIndex in indices) {\n   result[targetIndex++] = this[sourceIndex]\n   }\n   return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun ShortArray.sliceArray(indices: Collection<Int>): ShortArray {\n   val result = ShortArray(indices.size)\n   var targetIndex = 0\n   for (sourceIndex in indices) {\n   result[targetIndex++] = this[sourceIndex]\n   }\n   return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun IntArray.sliceArray(indices: Collection<Int>): IntArray {\n   val result = IntArray(indices.size)\n   var targetIndex = 0\n   for (sourceIndex in indices) {\n   result[targetIndex++] = this[sourceIndex]\n   }\n   return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun LongArray.sliceArray(indices: Collection<Int>): LongArray {\n   val result = LongArray(indices.size)\n   var targetIndex = 0\n   for (sourceIndex in indices) {\n   result[targetIndex++] = this[sourceIndex]\n   }\n   return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun FloatArray.sliceArray(indices: Collection<Int>): FloatArray {\n   val result = FloatArray(indices.size)\n   var targetIndex = 0\n   for (sourceIndex in indices) {\n   result[targetIndex++] = this[sourceIndex]\n   }\n   return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun DoubleArray.sliceArray(indices: Collection<Int>): DoubleArray {\n   val result = DoubleArray(indices.size)\n   var targetIndex = 0\n   for (sourceIndex in indices) {\n   result[targetIndex++] = this[sourceIndex]\n   }\n   return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun BooleanArray.sliceArray(indices: Collection<Int>): BooleanArray {\n   val result = BooleanArray(indices.size)\n   var targetIndex = 0\n   for (sourceIndex in indices) {\n   result[targetIndex++] = this[sourceIndex]\n   }\n   return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun CharArray.sliceArray(indices: Collection<Int>): CharArray {\n   val result = CharArray(indices.size)\n   var targetIndex = 0\n   for (sourceIndex in indices) {\n   result[targetIndex++] = this[sourceIndex]\n   }\n   return result\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun <T> Array<T>.sliceArray(indices: IntRange): Array<T> {\n   if (indices.isEmpty()) return copyOfRange(0, 0)\n

return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun ByteArray.sliceArray(indices: IntRange): ByteArray {\n   if (indices.isEmpty()) return ByteArray(0)\n   return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun ShortArray.sliceArray(indices: IntRange): ShortArray {\n   if (indices.isEmpty()) return ShortArray(0)\n   return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun IntArray.sliceArray(indices: IntRange): IntArray {\n   if (indices.isEmpty()) return IntArray(0)\n   return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun LongArray.sliceArray(indices: IntRange): LongArray {\n   if (indices.isEmpty()) return LongArray(0)\n   return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun FloatArray.sliceArray(indices: IntRange): FloatArray {\n   if (indices.isEmpty()) return FloatArray(0)\n   return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun DoubleArray.sliceArray(indices: IntRange): DoubleArray {\n   if (indices.isEmpty()) return DoubleArray(0)\n   return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun BooleanArray.sliceArray(indices: IntRange): BooleanArray {\n   if (indices.isEmpty()) return BooleanArray(0)\n   return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun CharArray.sliceArray(indices: IntRange): CharArray {\n   if (indices.isEmpty()) return CharArray(0)\n   return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun <T> Array<out T>.take(n: Int): List<T> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<T>(n)\n   for (item in this) {\n   if (count++ == n)\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun ByteArray.take(n: Int): List<Byte> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<Byte>(n)\n   for (item in this) {\n   if (count++ == n)\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun ShortArray.take(n: Int): List<Short> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<Short>(n)\n   for (item in this) {\n   if (count++ == n)\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun IntArray.take(n: Int): List<Int> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<Int>(n)\n   for (item in this) {\n   if (count++ == n)\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun LongArray.take(n: Int): List<Long> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<Long>(n)\n   for (item in this) {\n   if (count++ == n)\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun FloatArray.take(n: Int): List<Float> {\n

require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<Float>(n)\n   for (item in this) {\n   if (count++ == n)\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun DoubleArray.take(n: Int): List<Double> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<Double>(n)\n   for (item in this) {\n   if (count++ == n)\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun BooleanArray.take(n: Int): List<Boolean> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<Boolean>(n)\n   for (item in this) {\n   if (count++ == n)\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun CharArray.take(n: Int): List<Char> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<Char>(n)\n   for (item in this) {\n   if (count++ == n)\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun <T> Array<out T>.takeLast(n: Int): List<T> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   val size = size\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[size - 1])\n   val list = ArrayList<T>(n)\n   for (index in size - n until size)\n   list.add(this[index])\n   return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun ByteArray.takeLast(n: Int): List<Byte> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   val size = size\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[size - 1])\n   val list = ArrayList<Byte>(n)\n   for (index in size - n until size)\n   list.add(this[index])\n   return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun ShortArray.takeLast(n: Int): List<Short> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   val size = size\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[size - 1])\n   val list = ArrayList<Short>(n)\n   for (index in size - n until size)\n   list.add(this[index])\n   return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun IntArray.takeLast(n: Int): List<Int> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   val size = size\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[size - 1])\n   val list = ArrayList<Int>(n)\n   for (index in size - n until size)\n   list.add(this[index])\n   return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun LongArray.takeLast(n: Int): List<Long> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   val size = size\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[size - 1])\n   val list = ArrayList<Long>(n)\n   for (index in size - n until size)\n   list.add(this[index])\n   return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun FloatArray.takeLast(n: Int): List<Float> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   val size = size\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[size - 1])\n   val list = ArrayList<Float>(n)\n

for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun DoubleArray.takeLast(n: Int): List<Double> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<Double>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun BooleanArray.takeLast(n: Int): List<Boolean> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<Boolean>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun CharArray.takeLast(n: Int): List<Char> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<Char>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun <T> Array<out T>.takeLastWhile(predicate: (T) -> Boolean): List<T> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun ByteArray.takeLastWhile(predicate: (Byte) -> Boolean): List<Byte> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun ShortArray.takeLastWhile(predicate: (Short) -> Boolean): List<Short> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun IntArray.takeLastWhile(predicate: (Int) -> Boolean): List<Int> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun LongArray.takeLastWhile(predicate: (Long) -> Boolean): List<Long> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun FloatArray.takeLastWhile(predicate: (Float) -> Boolean): List<Float> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun DoubleArray.takeLastWhile(predicate: (Double) -> Boolean): List<Double> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun BooleanArray.takeLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun CharArray.takeLastWhile(predicate: (Char) -> Boolean): List<Char> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n

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return drop(index + 1)\n        }\n    }\n    return toList()\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun <T> Array<out T>.takeWhile(predicate: (T) -> Boolean): List<T> {\n    val list = ArrayList<T>()\n    for (item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun ByteArray.takeWhile(predicate: (Byte) -> Boolean): List<Byte> {\n    val list = ArrayList<Byte>()\n    for (item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun ShortArray.takeWhile(predicate: (Short) -> Boolean): List<Short> {\n    val list = ArrayList<Short>()\n    for (item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun IntArray.takeWhile(predicate: (Int) -> Boolean): List<Int> {\n    val list = ArrayList<Int>()\n    for (item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun LongArray.takeWhile(predicate: (Long) -> Boolean): List<Long> {\n    val list = ArrayList<Long>()\n    for (item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun FloatArray.takeWhile(predicate: (Float) -> Boolean): List<Float> {\n    val list = ArrayList<Float>()\n    for (item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun DoubleArray.takeWhile(predicate: (Double) -> Boolean): List<Double> {\n    val list = ArrayList<Double>()\n    for (item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun BooleanArray.takeWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n    val list = ArrayList<Boolean>()\n    for (item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun CharArray.takeWhile(predicate: (Char) -> Boolean): List<Char> {\n    val list = ArrayList<Char>()\n    for (item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun <T> Array<T>.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun ByteArray.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun ShortArray.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun IntArray.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun LongArray.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun FloatArray.reverse():
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Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun DoubleArray.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun BooleanArray.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun CharArray.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun <T> Array<out T>.reversed(): List<T> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun ByteArray.reversed(): List<Byte> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun ShortArray.reversed(): List<Short> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun IntArray.reversed(): List<Int> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun LongArray.reversed(): List<Long> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun FloatArray.reversed(): List<Float> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun DoubleArray.reversed(): List<Double> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun BooleanArray.reversed(): List<Boolean> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun CharArray.reversed(): List<Char> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun <T> Array<T>.reversedArray(): Array<T> {\n if (isEmpty()) return this\n val result = arrayOfNulls(this, size)\n val lastIndex = lastIndex\n for (i in 0..lastIndex)\n result[lastIndex - i] = this[i]\n return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun ByteArray.reversedArray(): ByteArray {\n if (isEmpty()) return this\n val result = ByteArray(size)\n val lastIndex = lastIndex\n for (i in 0..lastIndex)\n result[lastIndex - i] = this[i]\n return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun ShortArray.reversedArray(): ShortArray {\n if (isEmpty()) return this\n val result = ShortArray(size)\n val lastIndex = lastIndex\n for (i in 0..lastIndex)\n result[lastIndex - i] = this[i]\n return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun IntArray.reversedArray(): IntArray {\n if (isEmpty()) return this\n val result = IntArray(size)\n val lastIndex = lastIndex\n for (i in 0..lastIndex)\n result[lastIndex - i] = this[i]\n return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun LongArray.reversedArray(): LongArray {\n if (isEmpty()) return this\n val result = LongArray(size)\n val lastIndex = lastIndex\n for (i in 0..lastIndex)\n result[lastIndex - i] = this[i]\n return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun FloatArray.reversedArray(): FloatArray {\n if (isEmpty()) return this\n val result = FloatArray(size)\n val lastIndex = lastIndex\n for (i in 0..lastIndex)\n result[lastIndex - i] = this[i]\n return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun DoubleArray.reversedArray(): DoubleArray {\n if (isEmpty()) return this\n val result = DoubleArray(size)\n val lastIndex = lastIndex\n for (i in 0..lastIndex)\n result[lastIndex -

i] = this[i]\n   return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun BooleanArray.reversedArray(): BooleanArray {\n   if (isEmpty()) return this\n   val result = BooleanArray(size)\n   val lastIndex = lastIndex\n   for (i in 0..lastIndex)\n   result[lastIndex - i] = this[i]\n   return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun CharArray.reversedArray(): CharArray {\n   if (isEmpty()) return this\n   val result = CharArray(size)\n   val lastIndex = lastIndex\n   for (i in 0..lastIndex)\n   result[lastIndex - i] = this[i]\n   return result\n}\n\n/**\n * Sorts elements in the array in-place according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>> Array<out T>.sortBy(crossinline selector: (T) -> R?): Unit {\n   if (size > 1) sortWith(compareBy(selector))\n}\n\n/**\n * Sorts elements in the array in-place descending according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>> Array<out T>.sortByDescending(crossinline selector: (T) -> R?): Unit {\n   if (size > 1) sortWith(compareByDescending(selector))\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Array<out T>.sortDescending(): Unit {\n   sortWith(reverseOrder())\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun ByteArray.sortDescending(): Unit {\n   if (size > 1) {\n   sort()\n   reverse()\n   }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun ShortArray.sortDescending(): Unit {\n   if (size > 1) {\n   sort()\n   reverse()\n   }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun IntArray.sortDescending(): Unit {\n   if (size > 1) {\n   sort()\n   reverse()\n   }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun LongArray.sortDescending(): Unit {\n   if (size > 1) {\n   sort()\n   reverse()\n   }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun FloatArray.sortDescending(): Unit {\n   if (size > 1) {\n   sort()\n   reverse()\n   }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun DoubleArray.sortDescending(): Unit {\n   if (size > 1) {\n   sort()\n   reverse()\n   }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun CharArray.sortDescending(): Unit {\n   if (size > 1) {\n   sort()\n   reverse()\n   }\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Array<out T>.sorted(): List<T> {\n   return sortedArray().asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun ByteArray.sorted(): List<Byte> {\n   return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun ShortArray.sorted(): List<Short> {\n   return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun IntArray.sorted(): List<Int> {\n   return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun LongArray.sorted(): List<Long> {\n   return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun FloatArray.sorted(): List<Float> {\n   return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun DoubleArray.sorted(): List<Double> {\n   return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun CharArray.sorted(): List<Char> {\n   return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Array<T>.sortedArray(): Array<T> {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun ByteArray.sortedArray(): ByteArray {\n   if

(isEmpty()) return this\n   return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun ShortArray.sortedArray(): ShortArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun IntArray.sortedArray(): IntArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun LongArray.sortedArray(): LongArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun FloatArray.sortedArray(): FloatArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun DoubleArray.sortedArray(): DoubleArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun CharArray.sortedArray(): CharArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Array<T>.sortedArrayDescending(): Array<T> {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sortWith(reverseOrder()) }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic fun ByteArray.sortedArrayDescending(): ByteArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic fun ShortArray.sortedArrayDescending(): ShortArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic fun IntArray.sortedArrayDescending(): IntArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic fun LongArray.sortedArrayDescending(): LongArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic fun FloatArray.sortedArrayDescending(): FloatArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic fun DoubleArray.sortedArrayDescending(): DoubleArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic fun CharArray.sortedArrayDescending(): CharArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according the specified [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T> Array<out T>.sortedArrayWith(comparator: Comparator<in T>): Array<out T> {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sortWith(comparator) }\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>> Array<out T>.sortedBy(crossinline selector: (T) -> R?): List<T> {\n   return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> ByteArray.sortedBy(crossinline selector: (Byte) -> R?): List<Byte> {\n   return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> ShortArray.sortedBy(crossinline selector: (Short) -> R?): List<Short> {\n   return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>>

IntArray.sortedBy(crossinline selector: (Int) -> R?): List<Int> {\n   return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> LongArray.sortedBy(crossinline selector: (Long) -> R?): List<Long> {\n   return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> FloatArray.sortedBy(crossinline selector: (Float) -> R?): List<Float> {\n   return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> DoubleArray.sortedBy(crossinline selector: (Double) -> R?): List<Double> {\n   return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> BooleanArray.sortedBy(crossinline selector: (Boolean) -> R?): List<Boolean> {\n   return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> CharArray.sortedBy(crossinline selector: (Char) -> R?): List<Char> {\n   return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>> Array<out T>.sortedByDescending(crossinline selector: (T) -> R?): List<T> {\n   return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> ByteArray.sortedByDescending(crossinline selector: (Byte) -> R?): List<Byte> {\n   return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> ShortArray.sortedByDescending(crossinline selector: (Short) -> R?): List<Short> {\n   return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> IntArray.sortedByDescending(crossinline selector: (Int) -> R?): List<Int> {\n   return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> LongArray.sortedByDescending(crossinline selector: (Long) -> R?): List<Long> {\n   return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> FloatArray.sortedByDescending(crossinline selector: (Float) -> R?): List<Float> {\n   return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> DoubleArray.sortedByDescending(crossinline selector: (Double) -> R?): List<Double> {\n   return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> BooleanArray.sortedByDescending(crossinline selector: (Boolean) -> R?): List<Boolean> {\n   return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> CharArray.sortedByDescending(crossinline selector: (Char) -> R?): List<Char> {\n   return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Array<out T>.sortedDescending(): List<T> {\n   return sortedWith(reverseOrder())\n}\n\n/**\n * Returns a list of all elements sorted descending

according to their natural sort order.\n */\npublic fun ByteArray.sortedDescending(): List<Byte> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n */\npublic fun ShortArray.sortedDescending(): List<Short> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n */\npublic fun IntArray.sortedDescending(): List<Int> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n */\npublic fun LongArray.sortedDescending(): List<Long> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n */\npublic fun FloatArray.sortedDescending(): List<Float> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n */\npublic fun DoubleArray.sortedDescending(): List<Double> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n */\npublic fun CharArray.sortedDescending(): List<Char> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T> Array<out T>.sortedWith(comparator: Comparator<in T>): List<T> {\n   return sortedArrayWith(comparator).asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun ByteArray.sortedWith(comparator: Comparator<in Byte>): List<Byte> {\n   return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun ShortArray.sortedWith(comparator: Comparator<in Short>): List<Short> {\n   return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun IntArray.sortedWith(comparator: Comparator<in Int>): List<Int> {\n   return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun LongArray.sortedWith(comparator: Comparator<in Long>): List<Long> {\n   return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun FloatArray.sortedWith(comparator: Comparator<in Float>): List<Float> {\n   return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun DoubleArray.sortedWith(comparator: Comparator<in Double>): List<Double> {\n   return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun BooleanArray.sortedWith(comparator: Comparator<in Boolean>): List<Boolean> {\n   return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun CharArray.sortedWith(comparator: Comparator<in Char>): List<Char> {\n   return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun <T> Array<out T>.asList(): List<T>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun ByteArray.asList(): List<Byte>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun ShortArray.asList(): List<Short>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun IntArray.asList(): List<Int>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun LongArray.asList(): List<Long>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun FloatArray.asList(): List<Float>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun DoubleArray.asList(): List<Double>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun BooleanArray.asList(): List<Boolean>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun CharArray.asList(): List<Char>\n\n/**\n * Returns `true` if the two specified arrays are *deeply* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * If two corresponding elements are nested arrays, they are also compared deeply.\n * If any of arrays contains itself on any nesting level the behavior is undefined.\n * \n * The elements of other types are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not

equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\npublic expect infix fun <T> Array<out T>.contentDeepEquals(other: Array<out T>): Boolean\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains itself on any nesting level the behavior is undefined.\n */\n@SinceKotlin(\"1.1\")\npublic expect fun <T> Array<out T>.contentDeepHashCode(): Int\n\n/**\n * Returns a string representation of the contents of this array as if it is a [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains itself on any nesting level that reference\n * is rendered as `\"[...]\"` to prevent recursion.\n * \n * @sample samples.collections.Arrays.ContentOperations.contentDeepToString\n */\n@SinceKotlin(\"1.1\")\npublic expect fun <T> Array<out T>.contentDeepToString(): String\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\npublic expect infix fun <T> Array<out T>.contentEquals(other: Array<out T>): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\npublic expect infix fun ByteArray.contentEquals(other: ByteArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\npublic expect infix fun ShortArray.contentEquals(other: ShortArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\npublic expect infix fun IntArray.contentEquals(other: IntArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\npublic expect infix fun LongArray.contentEquals(other: LongArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\npublic expect infix fun FloatArray.contentEquals(other: FloatArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\npublic expect infix fun DoubleArray.contentEquals(other: DoubleArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\npublic expect infix fun BooleanArray.contentEquals(other: BooleanArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\npublic expect infix fun CharArray.contentEquals(other: CharArray): Boolean\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\npublic expect fun <T> Array<out T>.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\npublic expect fun ByteArray.contentHashCode(): Int\n\n/**\n * Returns a hash code

based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\npublic expect fun ShortArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\npublic expect fun IntArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\npublic expect fun LongArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\npublic expect fun FloatArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\npublic expect fun DoubleArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\npublic expect fun BooleanArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\npublic expect fun CharArray.contentHashCode(): Int\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\npublic expect fun <T> Array<out T>.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\npublic expect fun ByteArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\npublic expect fun ShortArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\npublic expect fun IntArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\npublic expect fun LongArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\npublic expect fun FloatArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\npublic expect fun DoubleArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\npublic expect fun BooleanArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\npublic expect fun CharArray.contentToString(): String\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun <T> Array<out T>.copyInto(destination: Array<T>, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): Array<T>\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this

array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun ByteArray.copyInto(destination: ByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ByteArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun ShortArray.copyInto(destination: ShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ShortArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): IntArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): LongArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): FloatArray\n\n/**\n * Copies this array or its subrange into the

[destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): CharArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect fun <T> Array<T>.copyOf(): Array<T>\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun ByteArray.copyOf(): ByteArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun ShortArray.copyOf(): ShortArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun IntArray.copyOf(): IntArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun LongArray.copyOf(): LongArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun FloatArray.copyOf(): FloatArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun DoubleArray.copyOf(): DoubleArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun BooleanArray.copyOf():

BooleanArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun CharArray.copyOf(): CharArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun ByteArray.copyOf(newSize: Int): ByteArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun ShortArray.copyOf(newSize: Int): ShortArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun IntArray.copyOf(newSize: Int): IntArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun LongArray.copyOf(newSize: Int): LongArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun FloatArray.copyOf(newSize: Int): FloatArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun DoubleArray.copyOf(newSize: Int): DoubleArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with `false` values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `false` values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun BooleanArray.copyOf(newSize: Int): BooleanArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with null char (`\\u0000`) values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with null char (`\\u0000`) values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun CharArray.copyOf(newSize: Int): CharArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with `null` values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are

filled with `null` values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizingCopyOf\n */\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect fun <T> Array<T>.copyOf(newSize: Int): Array<T?>\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect fun <T> Array<T>.copyOfRange(fromIndex: Int, toIndex: Int): Array<T>\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic expect fun ByteArray.copyOfRange(fromIndex: Int, toIndex: Int): ByteArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic expect fun ShortArray.copyOfRange(fromIndex: Int, toIndex: Int): ShortArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic expect fun IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic expect fun LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic expect fun FloatArray.copyOfRange(fromIndex: Int, toIndex: Int): FloatArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic expect fun DoubleArray.copyOfRange(fromIndex: Int, toIndex: Int): DoubleArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic expect fun BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic expect fun CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by

default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun FloatArray.fill(element: Float, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val <T> Array<out T>.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val ByteArray.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val ShortArray.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val IntArray.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val LongArray.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val FloatArray.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val DoubleArray.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val BooleanArray.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val CharArray.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n

* Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns the last valid index for the array.\n */\npublic val <T> Array<out T>.lastIndex: Int\n   get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val ByteArray.lastIndex: Int\n   get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val ShortArray.lastIndex: Int\n   get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val IntArray.lastIndex: Int\n   get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val LongArray.lastIndex: Int\n   get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val FloatArray.lastIndex: Int\n   get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val DoubleArray.lastIndex: Int\n   get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val BooleanArray.lastIndex: Int\n   get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val CharArray.lastIndex: Int\n   get() = size - 1\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect operator fun <T> Array<T>.plus(element: T): Array<T>\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun ByteArray.plus(element: Byte): ByteArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun ShortArray.plus(element: Short): ShortArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun IntArray.plus(element: Int): IntArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun LongArray.plus(element: Long): LongArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun FloatArray.plus(element: Float): FloatArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun DoubleArray.plus(element: Double): DoubleArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun BooleanArray.plus(element: Boolean): BooleanArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun CharArray.plus(element: Char): CharArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect operator fun <T> Array<T>.plus(elements: Collection<T>): Array<T>\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun

ByteArray.plus(elements: Collection<Byte>): ByteArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun ShortArray.plus(elements: Collection<Short>): ShortArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun IntArray.plus(elements: Collection<Int>): IntArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun LongArray.plus(elements: Collection<Long>): LongArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun FloatArray.plus(elements: Collection<Float>): FloatArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun DoubleArray.plus(elements: Collection<Double>): DoubleArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun BooleanArray.plus(elements: Collection<Boolean>): BooleanArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun CharArray.plus(elements: Collection<Char>): CharArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect operator fun <T> Array<T>.plus(elements: Array<out T>): Array<T>\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun ByteArray.plus(elements: ByteArray): ByteArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun ShortArray.plus(elements: ShortArray): ShortArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun IntArray.plus(elements: IntArray): IntArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun LongArray.plus(elements: LongArray): LongArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun FloatArray.plus(elements: FloatArray): FloatArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun DoubleArray.plus(elements: DoubleArray): DoubleArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun BooleanArray.plus(elements: BooleanArray): BooleanArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun CharArray.plus(elements: CharArray): CharArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect fun <T> Array<T>.plusElement(element: T): Array<T>\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun IntArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun LongArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun ByteArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun ShortArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun DoubleArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun FloatArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun CharArray.sort(): Unit\n\n/**\n * Sorts the array in-place according to the natural order of its elements.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \n * @sample samples.collections.Arrays.Sorting.sortArrayOfComparable\n */\npublic expect fun <T : Comparable<T>> Array<out T>.sort(): Unit\n\n/**\n * Sorts the array in-place according to the order specified by

the given [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic expect fun <T> Array<out T>.sortWith(comparator: Comparator<in T>): Unit\n\n/**\n * Returns an array of Boolean containing all of the elements of this generic array.\n */\npublic fun Array<out Boolean>.toBooleanArray(): BooleanArray {\n   return BooleanArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Byte containing all of the elements of this generic array.\n */\npublic fun Array<out Byte>.toByteArray(): ByteArray {\n   return ByteArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Char containing all of the elements of this generic array.\n */\npublic fun Array<out Char>.toCharArray(): CharArray {\n   return CharArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Double containing all of the elements of this generic array.\n */\npublic fun Array<out Double>.toDoubleArray(): DoubleArray {\n   return DoubleArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Float containing all of the elements of this generic array.\n */\npublic fun Array<out Float>.toFloatArray(): FloatArray {\n   return FloatArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Int containing all of the elements of this generic array.\n */\npublic fun Array<out Int>.toIntArray(): IntArray {\n   return IntArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Long containing all of the elements of this generic array.\n */\npublic fun Array<out Long>.toLongArray(): LongArray {\n   return LongArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Short containing all of the elements of this generic array.\n */\npublic fun Array<out Short>.toShortArray(): ShortArray {\n   return ShortArray(size) { index -> this[index] }\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun ByteArray.toTypedArray(): Array<Byte>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun ShortArray.toTypedArray(): Array<Short>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun IntArray.toTypedArray(): Array<Int>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun LongArray.toTypedArray(): Array<Long>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun FloatArray.toTypedArray(): Array<Float>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun DoubleArray.toTypedArray(): Array<Double>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun BooleanArray.toTypedArray(): Array<Boolean>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun CharArray.toTypedArray(): Array<Char>\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <T, K, V> Array<out T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> ByteArray.associate(transform: (Byte) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> ShortArray.associate(transform: (Short) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> IntArray.associate(transform: (Int) -> Pair<K, V>): Map<K, V> {\n   val capacity =

mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> LongArray.associate(transform: (Long) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> FloatArray.associate(transform: (Float) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> DoubleArray.associate(transform: (Double) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> BooleanArray.associate(transform: (Boolean) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> CharArray.associate(transform: (Char) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <T, K> Array<out T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, T>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K> ByteArray.associateBy(keySelector: (Byte) -> K): Map<K, Byte> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, Byte>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K> ShortArray.associateBy(keySelector: (Short) -> K): Map<K, Short> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, Short>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K> IntArray.associateBy(keySelector: (Int) -> K): Map<K, Int> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, Int>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the

elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K> LongArray.associateBy(keySelector: (Long) -> K): Map<K, Long> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, Long>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K> FloatArray.associateBy(keySelector: (Float) -> K): Map<K, Float> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, Float>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K> DoubleArray.associateBy(keySelector: (Double) -> K): Map<K, Double> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, Double>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K> BooleanArray.associateBy(keySelector: (Boolean) -> K): Map<K, Boolean> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, Boolean>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K> CharArray.associateBy(keySelector: (Char) -> K): Map<K, Char> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, Char>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <T, K, V> Array<out T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> ByteArray.associateBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> ShortArray.associateBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> IntArray.associateBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, V> {\n   val capacity =

mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> LongArray.associateBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> FloatArray.associateBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> DoubleArray.associateBy(keySelector: (Double) -> K, valueTransform: (Double) -> V): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> BooleanArray.associateBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> CharArray.associateBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <T, K, M : MutableMap<in K, in T>> Array<out T>.associateByTo(destination: M, keySelector: (T) -> K): M {\n   for (element in this) {\n   destination.put(keySelector(element), element)\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, M : MutableMap<in K, in Byte>> ByteArray.associateByTo(destination: M, keySelector: (Byte) -> K): M {\n   for (element in this) {\n   destination.put(keySelector(element), element)\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, M : MutableMap<in K, in Short>> ShortArray.associateByTo(destination: M, keySelector: (Short) -> K): M {\n   for (element in this) {\n   destination.put(keySelector(element), element)\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets

added to the map.\n */\npublic inline fun <K, M : MutableMap<in K, in Int>> IntArray.associateByTo(destination: M, keySelector: (Int) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, M : MutableMap<in K, in Long>> LongArray.associateByTo(destination: M, keySelector: (Long) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, M : MutableMap<in K, in Float>> FloatArray.associateByTo(destination: M, keySelector: (Float) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, M : MutableMap<in K, in Double>> DoubleArray.associateByTo(destination: M, keySelector: (Double) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, M : MutableMap<in K, in Boolean>> BooleanArray.associateByTo(destination: M, keySelector: (Boolean) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, M : MutableMap<in K, in Char>> CharArray.associateByTo(destination: M, keySelector: (Char) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Array<out T>.associateByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> ByteArray.associateByTo(destination: M, keySelector: (Byte) -> K, valueTransform: (Byte) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> ShortArray.associateByTo(destination: M, keySelector: (Short) -> K, valueTransform: (Short) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n *

\n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> IntArray.associateByTo(destination: M, keySelector: (Int) -> K, valueTransform: (Int) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> LongArray.associateByTo(destination: M, keySelector: (Long) -> K, valueTransform: (Long) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> FloatArray.associateByTo(destination: M, keySelector: (Float) -> K, valueTransform: (Float) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateByTo(destination: M, keySelector: (Double) -> K, valueTransform: (Double) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> BooleanArray.associateByTo(destination: M, keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> CharArray.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Array<out T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> ByteArray.associateTo(destination: M, transform: (Byte) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> ShortArray.associateTo(destination: M, transform: (Short) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n

* \n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> IntArray.associateTo(destination: M, transform: (Int) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> LongArray.associateTo(destination: M, transform: (Long) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> FloatArray.associateTo(destination: M, transform: (Float) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateTo(destination: M, transform: (Double) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> BooleanArray.associateTo(destination: M, transform: (Boolean) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> CharArray.associateTo(destination: M, transform: (Char) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <T, C : MutableCollection<in T>> Array<out T>.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Byte>> ByteArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Short>> ShortArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Int>> IntArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Long>> LongArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Float>> FloatArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Double>> DoubleArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Boolean>> BooleanArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Char>> CharArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Returns a [HashSet] of all elements.\n */\npublic fun <T> Array<out T>.toHashSet(): HashSet<T> {\n return toCollection(HashSet<T>(mapCapacity(size)))\n}\n\n/**\n * Returns a [HashSet] of all elements.\n */\npublic fun

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ByteArray.toHashSet(): HashSet<Byte> {\n    return toCollection(HashSet<Byte>(mapCapacity(size)))\n}\n\n/**\n * Returns a [HashSet] of all elements.\n */\npublic fun ShortArray.toHashSet(): HashSet<Short> {\n    return toCollection(HashSet<Short>(mapCapacity(size)))\n}\n\n/**\n * Returns a [HashSet] of all elements.\n */\npublic fun IntArray.toHashSet(): HashSet<Int> {\n    return toCollection(HashSet<Int>(mapCapacity(size)))\n}\n\n/**\n * Returns a [HashSet] of all elements.\n */\npublic fun LongArray.toHashSet(): HashSet<Long> {\n    return toCollection(HashSet<Long>(mapCapacity(size)))\n}\n\n/**\n * Returns a [HashSet] of all elements.\n */\npublic fun FloatArray.toHashSet(): HashSet<Float> {\n    return toCollection(HashSet<Float>(mapCapacity(size)))\n}\n\n/**\n * Returns a [HashSet] of all elements.\n */\npublic fun DoubleArray.toHashSet(): HashSet<Double> {\n    return toCollection(HashSet<Double>(mapCapacity(size)))\n}\n\n/**\n * Returns a [HashSet] of all elements.\n */\npublic fun BooleanArray.toHashSet(): HashSet<Boolean> {\n    return toCollection(HashSet<Boolean>(mapCapacity(size)))\n}\n\n/**\n * Returns a [HashSet] of all elements.\n */\npublic fun CharArray.toHashSet(): HashSet<Char> {\n    return toCollection(HashSet<Char>(mapCapacity(size)))\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun <T> Array<out T>.toList(): List<T> {\n    return when (size) {\n        0 -> emptyList()\n        1 -> listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun ByteArray.toList(): List<Byte> {\n    return when (size) {\n        0 -> emptyList()\n        1 -> listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun ShortArray.toList(): List<Short> {\n    return when (size) {\n        0 -> emptyList()\n        1 -> listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun IntArray.toList(): List<Int> {\n    return when (size) {\n        0 -> emptyList()\n        1 -> listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun LongArray.toList(): List<Long> {\n    return when (size) {\n        0 -> emptyList()\n        1 -> listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun FloatArray.toList(): List<Float> {\n    return when (size) {\n        0 -> emptyList()\n        1 -> listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun DoubleArray.toList(): List<Double> {\n    return when (size) {\n        0 -> emptyList()\n        1 -> listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun BooleanArray.toList(): List<Boolean> {\n    return when (size) {\n        0 -> emptyList()\n        1 -> listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun CharArray.toList(): List<Char> {\n    return when (size) {\n        0 -> emptyList()\n        1 -> listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this array.\n */\npublic fun <T> Array<out T>.toMutableList(): MutableList<T> {\n    return ArrayList(this.asCollection())\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this array.\n */\npublic fun ByteArray.toMutableList(): MutableList<Byte> {\n    val list = ArrayList<Byte>(size)\n    for (item in this) list.add(item)\n    return list\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this array.\n */\npublic fun ShortArray.toMutableList(): MutableList<Short> {\n    val list = ArrayList<Short>(size)\n    for (item in this) list.add(item)\n    return list\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this array.\n */\npublic fun IntArray.toMutableList(): MutableList<Int> {\n    val list = ArrayList<Int>(size)\n    for (item in this) list.add(item)\n    return list\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this array.\n */\npublic fun LongArray.toMutableList(): MutableList<Long> {\n    val list = ArrayList<Long>(size)\n    for (item in this) list.add(item)\n    return list\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this array.\n */\npublic fun FloatArray.toMutableList(): MutableList<Float> {\n    val list = ArrayList<Float>(size)\n    for (item in this) list.add(item)\n    return list\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this array.\n */\npublic fun DoubleArray.toMutableList(): MutableList<Double> {\n    val list = ArrayList<Double>(size)\n    for (item in this) list.add(item)\n    return list\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this array.\n */\npublic fun BooleanArray.toMutableList(): MutableList<Boolean> {\n    val list = ArrayList<Boolean>(size)\n    for (item in this) list.add(item)\n    return list\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this
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array.\n */\npublic fun CharArray.toMutableList(): MutableList<Char> {\n    val list = ArrayList<Char>(size)\n for (item in this) list.add(item)\n    return list\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun <T> Array<out T>.toSet(): Set<T> {\n return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else -> toCollection(LinkedHashSet<T>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun ByteArray.toSet(): Set<Byte> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else -> toCollection(LinkedHashSet<Byte>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun ShortArray.toSet(): Set<Short> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else -> toCollection(LinkedHashSet<Short>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun IntArray.toSet(): Set<Int> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else -> toCollection(LinkedHashSet<Int>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun LongArray.toSet(): Set<Long> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else -> toCollection(LinkedHashSet<Long>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun FloatArray.toSet(): Set<Float> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else -> toCollection(LinkedHashSet<Float>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun DoubleArray.toSet(): Set<Double> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else -> toCollection(LinkedHashSet<Double>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun BooleanArray.toSet(): Set<Boolean> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else -> toCollection(LinkedHashSet<Boolean>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun CharArray.toSet(): Set<Char> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else -> toCollection(LinkedHashSet<Char>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\npublic inline fun <T, R> Array<out T>.flatMap(transform: (T) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\npublic inline fun <R> ByteArray.flatMap(transform: (Byte) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\npublic inline fun <R> ShortArray.flatMap(transform: (Short) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\npublic inline fun <R> IntArray.flatMap(transform: (Int) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\npublic inline fun <R> LongArray.flatMap(transform: (Long) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\npublic inline fun <R> FloatArray.flatMap(transform: (Float) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\npublic inline fun <R> DoubleArray.flatMap(transform: (Double) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
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invoked on each element of original array.\n */\npublic inline fun <R> BooleanArray.flatMap(transform: (Boolean) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\npublic inline fun <R> CharArray.flatMap(transform: (Char) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapTo(destination: C, transform: (T) -> Iterable<R>): C {\n   for (element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> ByteArray.flatMapTo(destination: C, transform: (Byte) -> Iterable<R>): C {\n   for (element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> ShortArray.flatMapTo(destination: C, transform: (Short) -> Iterable<R>): C {\n   for (element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> IntArray.flatMapTo(destination: C, transform: (Int) -> Iterable<R>): C {\n   for (element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> LongArray.flatMapTo(destination: C, transform: (Long) -> Iterable<R>): C {\n   for (element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> FloatArray.flatMapTo(destination: C, transform: (Float) -> Iterable<R>): C {\n   for (element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> DoubleArray.flatMapTo(destination: C, transform: (Double) -> Iterable<R>): C {\n   for (element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> BooleanArray.flatMapTo(destination: C, transform: (Boolean) -> Iterable<R>): C {\n   for (element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> CharArray.flatMapTo(destination: C, transform: (Char) -> Iterable<R>): C {\n   for (element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K> Array<out T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {\n   return groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> ByteArray.groupBy(keySelector: (Byte) -> K): Map<K, List<Byte>> {\n   return

groupByTo(LinkedHashMap<K, MutableList<Byte>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> ShortArray.groupBy(keySelector: (Short) -> K): Map<K, List<Short>> {\n return groupByTo(LinkedHashMap<K, MutableList<Short>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> IntArray.groupBy(keySelector: (Int) -> K): Map<K, List<Int>> {\n return groupByTo(LinkedHashMap<K, MutableList<Int>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> LongArray.groupBy(keySelector: (Long) -> K): Map<K, List<Long>> {\n return groupByTo(LinkedHashMap<K, MutableList<Long>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> FloatArray.groupBy(keySelector: (Float) -> K): Map<K, List<Float>> {\n return groupByTo(LinkedHashMap<K, MutableList<Float>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> DoubleArray.groupBy(keySelector: (Double) -> K): Map<K, List<Double>> {\n return groupByTo(LinkedHashMap<K, MutableList<Double>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> BooleanArray.groupBy(keySelector: (Boolean) -> K): Map<K, List<Boolean>> {\n return groupByTo(LinkedHashMap<K, MutableList<Boolean>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> CharArray.groupBy(keySelector: (Char) -> K): Map<K, List<Char>> {\n return groupByTo(LinkedHashMap<K, MutableList<Char>>(), keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V> Array<out T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by

the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> ByteArray.groupBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> ShortArray.groupBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> IntArray.groupBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> LongArray.groupBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> FloatArray.groupBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> DoubleArray.groupBy(keySelector: (Double) -> K, valueTransform: (Double) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> BooleanArray.groupBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups

values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> CharArray.groupBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K, M : MutableMap<in K, MutableList<T>>> Array<out T>.groupByTo(destination: M, keySelector: (T) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<T>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Byte>>> ByteArray.groupByTo(destination: M, keySelector: (Byte) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Byte>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Short>>> ShortArray.groupByTo(destination: M, keySelector: (Short) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Short>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Int>>> IntArray.groupByTo(destination: M, keySelector: (Int) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Int>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Long>>> LongArray.groupByTo(destination: M, keySelector: (Long) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Long>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Float>>> FloatArray.groupByTo(destination: M, keySelector: (Float) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Float>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Double>>> DoubleArray.groupByTo(destination: M, keySelector: (Double) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list =

destination.getOrPut(key) { ArrayList<Double>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Boolean>>> BooleanArray.groupByTo(destination: M, keySelector: (Boolean) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Boolean>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Char>>> CharArray.groupByTo(destination: M, keySelector: (Char) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Char>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> Array<out T>.groupByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ByteArray.groupByTo(destination: M, keySelector: (Byte) -> K, valueTransform: (Byte) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ShortArray.groupByTo(destination: M, keySelector: (Short) -> K, valueTransform: (Short) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> IntArray.groupByTo(destination: M, keySelector: (Int) -> K, valueTransform: (Int) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> LongArray.groupByTo(destination: M, keySelector: (Long) -> K, valueTransform: (Long) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n

val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> FloatArray.groupByTo(destination: M, keySelector: (Float) -> K, valueTransform: (Float) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> DoubleArray.groupByTo(destination: M, keySelector: (Double) -> K, valueTransform: (Double) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> BooleanArray.groupByTo(destination: M, keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> CharArray.groupByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Creates a [Grouping] source from an array to be used later with one of group-and-fold operations\n * using the specified [keySelector] function to extract a key from each element.\n * \n * @sample samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K> Array<out T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {\n return object : Grouping<T, K> {\n override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()\n override fun keyOf(element: T): K = keySelector(element)\n }\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <T, R> Array<out T>.map(transform: (T) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> ByteArray.map(transform: (Byte) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> ShortArray.map(transform: (Short) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> IntArray.map(transform: (Int) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results

of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> LongArray.map(transform: (Long) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> FloatArray.map(transform: (Float) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> DoubleArray.map(transform: (Double) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> BooleanArray.map(transform: (Boolean) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> CharArray.map(transform: (Char) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R> Array<out T>.mapIndexed(transform: (index: Int, T) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> ByteArray.mapIndexed(transform: (index: Int, Byte) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> ShortArray.mapIndexed(transform: (index: Int, Short) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> IntArray.mapIndexed(transform: (index: Int, Int) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> LongArray.mapIndexed(transform: (index: Int, Long) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> FloatArray.mapIndexed(transform: (index: Int, Float) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> DoubleArray.mapIndexed(transform: (index: Int, Double) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> BooleanArray.mapIndexed(transform: (index: Int, Boolean) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n *

Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> CharArray.mapIndexed(transform: (index: Int, Char) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R : Any> Array<out T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): List<R> {\n return mapIndexedNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends only the non-null results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Array<out T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {\n forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Array<out T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>> ByteArray.mapIndexedTo(destination: C, transform: (index: Int, Byte) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>> ShortArray.mapIndexedTo(destination: C, transform: (index: Int, Short) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>> IntArray.mapIndexedTo(destination: C, transform: (index: Int, Int) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>> LongArray.mapIndexedTo(destination: C, transform: (index: Int, Long) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>> FloatArray.mapIndexedTo(destination: C, transform: (index: Int, Float) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>>

DoubleArray.mapIndexedTo(destination: C, transform: (index: Int, Double) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>> BooleanArray.mapIndexedTo(destination: C, transform: (index: Int, Boolean) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>> CharArray.mapIndexedTo(destination: C, transform: (index: Int, Char) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each element in the original array.\n */\npublic inline fun <T, R : Any> Array<out T>.mapNotNull(transform: (T) -> R?): List<R> {\n return mapNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each element in the original array\n * and appends only the non-null results to the given [destination].\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Array<out T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {\n forEach { element -> transform(element)?.let { destination.add(it) } }\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Array<out T>.mapTo(destination: C, transform: (T) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> ByteArray.mapTo(destination: C, transform: (Byte) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> ShortArray.mapTo(destination: C, transform: (Short) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> IntArray.mapTo(destination: C, transform: (Int) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> LongArray.mapTo(destination: C, transform: (Long) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> FloatArray.mapTo(destination: C, transform: (Float) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> DoubleArray.mapTo(destination: C, transform: (Double) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> BooleanArray.mapTo(destination: C, transform: (Boolean) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> CharArray.mapTo(destination: C, transform: (Char) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun <T> Array<out

T>.withIndex(): Iterable<IndexedValue<T>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun ByteArray.withIndex(): Iterable<IndexedValue<Byte>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun ShortArray.withIndex(): Iterable<IndexedValue<Short>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun IntArray.withIndex(): Iterable<IndexedValue<Int>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun LongArray.withIndex(): Iterable<IndexedValue<Long>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun FloatArray.withIndex(): Iterable<IndexedValue<Float>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun DoubleArray.withIndex(): Iterable<IndexedValue<Double>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun BooleanArray.withIndex(): Iterable<IndexedValue<Boolean>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun CharArray.withIndex(): Iterable<IndexedValue<Char>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic fun <T> Array<out T>.distinct(): List<T> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic fun ByteArray.distinct(): List<Byte> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic fun ShortArray.distinct(): List<Short> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic fun IntArray.distinct(): List<Int> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic fun LongArray.distinct(): List<Long> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic fun FloatArray.distinct(): List<Float> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic fun DoubleArray.distinct(): List<Double> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic fun BooleanArray.distinct(): List<Boolean> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic fun CharArray.distinct(): List<Char> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic inline fun <T, K> Array<out T>.distinctBy(selector: (T) -> K): List<T> {\n   val set = HashSet<K>()\n   val list = ArrayList<T>()\n   for (e in this) {\n   val key = selector(e)\n

if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic inline fun <K> ByteArray.distinctBy(selector: (Byte) -> K): List<Byte> {\n val set = HashSet<K>()\n val list = ArrayList<Byte>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic inline fun <K> ShortArray.distinctBy(selector: (Short) -> K): List<Short> {\n val set = HashSet<K>()\n val list = ArrayList<Short>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic inline fun <K> IntArray.distinctBy(selector: (Int) -> K): List<Int> {\n val set = HashSet<K>()\n val list = ArrayList<Int>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic inline fun <K> LongArray.distinctBy(selector: (Long) -> K): List<Long> {\n val set = HashSet<K>()\n val list = ArrayList<Long>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic inline fun <K> FloatArray.distinctBy(selector: (Float) -> K): List<Float> {\n val set = HashSet<K>()\n val list = ArrayList<Float>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic inline fun <K> DoubleArray.distinctBy(selector: (Double) -> K): List<Double> {\n val set = HashSet<K>()\n val list = ArrayList<Double>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic inline fun <K> BooleanArray.distinctBy(selector: (Boolean) -> K): List<Boolean> {\n val set = HashSet<K>()\n val list = ArrayList<Boolean>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic inline fun <K> CharArray.distinctBy(selector: (Char) -> K): List<Char> {\n val set = HashSet<K>()\n val list = ArrayList<Char>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a set containing all elements that are contained by both this set and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun <T> Array<out T>.intersect(other: Iterable<T>): Set<T> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this set and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun ByteArray.intersect(other: Iterable<Byte>): Set<Byte> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this set and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun ShortArray.intersect(other: Iterable<Short>): Set<Short> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this set and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun IntArray.intersect(other: Iterable<Int>): Set<Int> {\n val set = this.toMutableSet()\n

set.retainAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this set and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun LongArray.intersect(other: Iterable<Long>): Set<Long> {\n   val set = this.toMutableSet()\n set.retainAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this set and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun FloatArray.intersect(other: Iterable<Float>): Set<Float> {\n   val set = this.toMutableSet()\n set.retainAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this set and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun DoubleArray.intersect(other: Iterable<Double>): Set<Double> {\n   val set = this.toMutableSet()\n   set.retainAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this set and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun BooleanArray.intersect(other: Iterable<Boolean>): Set<Boolean> {\n val set = this.toMutableSet()\n   set.retainAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this set and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun CharArray.intersect(other: Iterable<Char>): Set<Char> {\n   val set = this.toMutableSet()\n   set.retainAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun <T> Array<out T>.subtract(other: Iterable<T>): Set<T> {\n   val set = this.toMutableSet()\n   set.removeAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun ByteArray.subtract(other: Iterable<Byte>): Set<Byte> {\n   val set = this.toMutableSet()\n set.removeAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun ShortArray.subtract(other: Iterable<Short>): Set<Short> {\n   val set = this.toMutableSet()\n   set.removeAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun IntArray.subtract(other: Iterable<Int>): Set<Int> {\n   val set = this.toMutableSet()\n   set.removeAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun LongArray.subtract(other: Iterable<Long>): Set<Long> {\n   val set = this.toMutableSet()\n   set.removeAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun FloatArray.subtract(other: Iterable<Float>): Set<Float> {\n   val set = this.toMutableSet()\n set.removeAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun DoubleArray.subtract(other: Iterable<Double>): Set<Double> {\n   val set = this.toMutableSet()\n   set.removeAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun BooleanArray.subtract(other: Iterable<Boolean>): Set<Boolean> {\n   val set = this.toMutableSet()\n   set.removeAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun CharArray.subtract(other: Iterable<Char>): Set<Char> {\n   val set = this.toMutableSet()\n   set.removeAll(other)\n   return set\n}\n\n/**\n * Returns a mutable set containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun <T> Array<out T>.toMutableSet(): MutableSet<T> {\n   val set = LinkedHashSet<T>(mapCapacity(size))\n   for (item in this)

set.add(item)\n   return set\n}\n\n/**\n * Returns a mutable set containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun ByteArray.toMutableSet(): MutableSet<Byte> {\n   val set = LinkedHashSet<Byte>(mapCapacity(size))\n   for (item in this) set.add(item)\n   return set\n}\n\n/**\n * Returns a mutable set containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun ShortArray.toMutableSet(): MutableSet<Short> {\n   val set = LinkedHashSet<Short>(mapCapacity(size))\n   for (item in this) set.add(item)\n   return set\n}\n\n/**\n * Returns a mutable set containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun IntArray.toMutableSet(): MutableSet<Int> {\n   val set = LinkedHashSet<Int>(mapCapacity(size))\n   for (item in this) set.add(item)\n   return set\n}\n\n/**\n * Returns a mutable set containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun LongArray.toMutableSet(): MutableSet<Long> {\n   val set = LinkedHashSet<Long>(mapCapacity(size))\n   for (item in this) set.add(item)\n   return set\n}\n\n/**\n * Returns a mutable set containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun FloatArray.toMutableSet(): MutableSet<Float> {\n   val set = LinkedHashSet<Float>(mapCapacity(size))\n   for (item in this) set.add(item)\n   return set\n}\n\n/**\n * Returns a mutable set containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun DoubleArray.toMutableSet(): MutableSet<Double> {\n   val set = LinkedHashSet<Double>(mapCapacity(size))\n   for (item in this) set.add(item)\n   return set\n}\n\n/**\n * Returns a mutable set containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun BooleanArray.toMutableSet(): MutableSet<Boolean> {\n   val set = LinkedHashSet<Boolean>(mapCapacity(size))\n   for (item in this) set.add(item)\n   return set\n}\n\n/**\n * Returns a mutable set containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun CharArray.toMutableSet(): MutableSet<Char> {\n   val set = LinkedHashSet<Char>(mapCapacity(size))\n   for (item in this) set.add(item)\n   return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n */\npublic infix fun <T> Array<out T>.union(other: Iterable<T>): Set<T> {\n   val set = this.toMutableSet()\n   set.addAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n */\npublic infix fun ByteArray.union(other: Iterable<Byte>): Set<Byte> {\n   val set = this.toMutableSet()\n   set.addAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n */\npublic infix fun ShortArray.union(other: Iterable<Short>): Set<Short> {\n   val set = this.toMutableSet()\n   set.addAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n */\npublic infix fun IntArray.union(other: Iterable<Int>): Set<Int> {\n   val set = this.toMutableSet()\n   set.addAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n */\npublic infix fun LongArray.union(other: Iterable<Long>): Set<Long> {\n   val set = this.toMutableSet()\n   set.addAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n */\npublic infix fun FloatArray.union(other: Iterable<Float>): Set<Float> {\n   val set = this.toMutableSet()\n   set.addAll(other)\n   return set\n}\n\n/**\n * Returns a set

containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n */\npublic infix fun DoubleArray.union(other: Iterable<Double>): Set<Double> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n */\npublic infix fun BooleanArray.union(other: Iterable<Boolean>): Set<Boolean> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n */\npublic infix fun CharArray.union(other: Iterable<Char>): Set<Char> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun <T> Array<out T>.all(predicate: (T) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun ByteArray.all(predicate: (Byte) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun ShortArray.all(predicate: (Short) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun IntArray.all(predicate: (Int) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun LongArray.all(predicate: (Long) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun FloatArray.all(predicate: (Float) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun DoubleArray.all(predicate: (Double) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun BooleanArray.all(predicate: (Boolean) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun CharArray.all(predicate: (Char) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun <T> Array<out T>.any(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun ByteArray.any(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun ShortArray.any(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun IntArray.any(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun LongArray.any(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun FloatArray.any(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample

samples.collections.Collections.Aggregates.any\n */\npublic fun DoubleArray.any(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun BooleanArray.any(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun CharArray.any(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun <T> Array<out T>.any(predicate: (T) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return true\n   return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun ByteArray.any(predicate: (Byte) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return true\n   return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun ShortArray.any(predicate: (Short) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return true\n   return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun IntArray.any(predicate: (Int) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return true\n   return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun LongArray.any(predicate: (Long) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return true\n   return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun FloatArray.any(predicate: (Float) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return true\n   return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun DoubleArray.any(predicate: (Double) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return true\n   return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun BooleanArray.any(predicate: (Boolean) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return true\n   return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun CharArray.any(predicate: (Char) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return true\n   return false\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.count(): Int {\n   return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.count(): Int {\n   return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.count(): Int {\n   return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.count(): Int {\n   return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.count(): Int {\n   return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.count(): Int {\n   return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.count(): Int {\n   return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.count(): Int {\n   return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.count(): Int {\n   return size\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun <T> Array<out T>.count(predicate: (T) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun ByteArray.count(predicate: (Byte) -> Boolean): Int {\n   var count = 0\n   for

(element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun ShortArray.count(predicate: (Short) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun IntArray.count(predicate: (Int) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun LongArray.count(predicate: (Long) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun FloatArray.count(predicate: (Float) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun DoubleArray.count(predicate: (Double) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun BooleanArray.count(predicate: (Boolean) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun CharArray.count(predicate: (Char) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <T, R> Array<out T>.fold(initial: R, operation: (acc: R, T) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <R> ByteArray.fold(initial: R, operation: (acc: R, Byte) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <R> ShortArray.fold(initial: R, operation: (acc: R, Short) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <R> IntArray.fold(initial: R, operation: (acc: R, Int) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <R> LongArray.fold(initial: R, operation: (acc: R, Long) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <R> FloatArray.fold(initial: R, operation: (acc: R, Float) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <R> DoubleArray.fold(initial: R, operation: (acc: R, Double) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <R> BooleanArray.fold(initial: R, operation: (acc: R, Boolean) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <R> CharArray.fold(initial: R, operation: (acc: R, Char) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element,

current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <T, R> Array<out T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> ByteArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> ShortArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> IntArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> LongArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> FloatArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> DoubleArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> BooleanArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> CharArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left

to each element and current accumulator value.\n */\npublic inline fun <T, R> Array<out T>.foldRight(initial: R, operation: (T, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun <R> ByteArray.foldRight(initial: R, operation: (Byte, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun <R> ShortArray.foldRight(initial: R, operation: (Short, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun <R> IntArray.foldRight(initial: R, operation: (Int, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun <R> LongArray.foldRight(initial: R, operation: (Long, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun <R> FloatArray.foldRight(initial: R, operation: (Float, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun <R> DoubleArray.foldRight(initial: R, operation: (Double, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun <R> BooleanArray.foldRight(initial: R, operation: (Boolean, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun <R> CharArray.foldRight(initial: R, operation: (Char, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <T, R> Array<out T>.foldRightIndexed(initial: R, operation: (index: Int, T, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> ByteArray.foldRightIndexed(initial: R, operation: (index: Int, Byte, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> ShortArray.foldRightIndexed(initial: R, operation: (index: Int, Short, acc: R) -> R): R {\n var index = lastIndex\n

var accumulator = initial\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> IntArray.foldRightIndexed(initial: R, operation: (index: Int, Int, acc: R) -> R): R {\n   var index = lastIndex\n   var accumulator = initial\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> LongArray.foldRightIndexed(initial: R, operation: (index: Int, Long, acc: R) -> R): R {\n   var index = lastIndex\n   var accumulator = initial\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> FloatArray.foldRightIndexed(initial: R, operation: (index: Int, Float, acc: R) -> R): R {\n   var index = lastIndex\n   var accumulator = initial\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> DoubleArray.foldRightIndexed(initial: R, operation: (index: Int, Double, acc: R) -> R): R {\n   var index = lastIndex\n   var accumulator = initial\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> BooleanArray.foldRightIndexed(initial: R, operation: (index: Int, Boolean, acc: R) -> R): R {\n   var index = lastIndex\n   var accumulator = initial\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> CharArray.foldRightIndexed(initial: R, operation: (index: Int, Char, acc: R) -> R): R {\n   var index = lastIndex\n   var accumulator = initial\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun <T> Array<out T>.forEach(action: (T) -> Unit): Unit {\n   for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun ByteArray.forEach(action: (Byte) -> Unit): Unit {\n   for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun ShortArray.forEach(action: (Short) -> Unit): Unit {\n   for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun IntArray.forEach(action: (Int) -> Unit): Unit {\n   for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun LongArray.forEach(action: (Long) -> Unit): Unit {\n   for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun FloatArray.forEach(action: (Float) -> Unit): Unit {\n   for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun DoubleArray.forEach(action: (Double) -> Unit): Unit {\n   for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n

*/\npublic inline fun BooleanArray.forEach(action: (Boolean) -> Unit): Unit {\n   for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun CharArray.forEach(action: (Char) -> Unit): Unit {\n   for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\npublic inline fun <T> Array<out T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {\n   var index = 0\n   for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\npublic inline fun ByteArray.forEachIndexed(action: (index: Int, Byte) -> Unit): Unit {\n   var index = 0\n   for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\npublic inline fun ShortArray.forEachIndexed(action: (index: Int, Short) -> Unit): Unit {\n   var index = 0\n   for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\npublic inline fun IntArray.forEachIndexed(action: (index: Int, Int) -> Unit): Unit {\n   var index = 0\n   for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\npublic inline fun LongArray.forEachIndexed(action: (index: Int, Long) -> Unit): Unit {\n   var index = 0\n   for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\npublic inline fun FloatArray.forEachIndexed(action: (index: Int, Float) -> Unit): Unit {\n   var index = 0\n   for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\npublic inline fun DoubleArray.forEachIndexed(action: (index: Int, Double) -> Unit): Unit {\n   var index = 0\n   for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\npublic inline fun BooleanArray.forEachIndexed(action: (index: Int, Boolean) -> Unit): Unit {\n   var index = 0\n   for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\npublic inline fun CharArray.forEachIndexed(action: (index: Int, Char) -> Unit): Unit {\n   var index = 0\n   for (item in this) action(index++, item)\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\npublic fun Array<out Double>.max(): Double? {\n   if (isEmpty()) return null\n   var max = this[0]\n   if (max.isNaN()) return max\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (e.isNaN()) return e\n   if (max < e) max = e\n   }\n   return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\npublic fun Array<out Float>.max(): Float? {\n   if (isEmpty()) return null\n   var max = this[0]\n   if (max.isNaN()) return max\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (e.isNaN()) return e\n   if (max < e) max = e\n   }\n   return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\npublic fun <T : Comparable<T>> Array<out T>.max(): T? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (max < e) max = e\n   }\n   return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\npublic fun ByteArray.max(): Byte? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (max < e) max = e\n   }\n   return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\npublic fun ShortArray.max(): Short? {\n   if (isEmpty()) return null\n   var max = this[0]\n

for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\npublic fun IntArray.max(): Int? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\npublic fun LongArray.max(): Long? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\npublic fun FloatArray.max(): Float? {\n if (isEmpty()) return null\n var max = this[0]\n if (max.isNaN()) return max\n for (i in 1..lastIndex) {\n val e = this[i]\n if (e.isNaN()) return e\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\npublic fun DoubleArray.max(): Double? {\n if (isEmpty()) return null\n var max = this[0]\n if (max.isNaN()) return max\n for (i in 1..lastIndex) {\n val e = this[i]\n if (e.isNaN()) return e\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\npublic fun CharArray.max(): Char? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <T, R : Comparable<R>> Array<out T>.maxBy(selector: (T) -> R): T? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>> ByteArray.maxBy(selector: (Byte) -> R): Byte? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>> ShortArray.maxBy(selector: (Short) -> R): Short? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>> IntArray.maxBy(selector: (Int) -> R): Int? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>> LongArray.maxBy(selector: (Long) -> R): Long? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>> FloatArray.maxBy(selector: (Float) -> R): Float? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val

lastIndex = this.lastIndex\n   if (lastIndex == 0) return maxElem\n   var maxValue = selector(maxElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (maxValue < v) {\n   maxElem = e\n   maxValue = v\n   }\n   }\n   return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>> DoubleArray.maxBy(selector: (Double) -> R): Double? {\n   if (isEmpty()) return null\n   var maxElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return maxElem\n   var maxValue = selector(maxElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (maxValue < v) {\n   maxElem = e\n   maxValue = v\n   }\n   }\n   return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>> BooleanArray.maxBy(selector: (Boolean) -> R): Boolean? {\n   if (isEmpty()) return null\n   var maxElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return maxElem\n   var maxValue = selector(maxElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (maxValue < v) {\n   maxElem = e\n   maxValue = v\n   }\n   }\n   return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>> CharArray.maxBy(selector: (Char) -> R): Char? {\n   if (isEmpty()) return null\n   var maxElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return maxElem\n   var maxValue = selector(maxElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (maxValue < v) {\n   maxElem = e\n   maxValue = v\n   }\n   }\n   return maxElem\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun <T> Array<out T>.maxWith(comparator: Comparator<in T>): T? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(max, e) < 0) max = e\n   }\n   return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun ByteArray.maxWith(comparator: Comparator<in Byte>): Byte? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(max, e) < 0) max = e\n   }\n   return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun ShortArray.maxWith(comparator: Comparator<in Short>): Short? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(max, e) < 0) max = e\n   }\n   return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun IntArray.maxWith(comparator: Comparator<in Int>): Int? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(max, e) < 0) max = e\n   }\n   return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun LongArray.maxWith(comparator: Comparator<in Long>): Long? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(max, e) < 0) max = e\n   }\n   return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun FloatArray.maxWith(comparator: Comparator<in Float>): Float? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(max, e) < 0) max = e\n   }\n   return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun DoubleArray.maxWith(comparator: Comparator<in Double>): Double? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(max, e) < 0) max = e\n   }\n   return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun BooleanArray.maxWith(comparator: Comparator<in Boolean>): Boolean? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n

if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun CharArray.maxWith(comparator: Comparator<in Char>): Char? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\npublic fun Array<out Double>.min(): Double? {\n if (isEmpty()) return null\n var min = this[0]\n if (min.isNaN()) return min\n for (i in 1..lastIndex) {\n val e = this[i]\n if (e.isNaN()) return e\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\npublic fun Array<out Float>.min(): Float? {\n if (isEmpty()) return null\n var min = this[0]\n if (min.isNaN()) return min\n for (i in 1..lastIndex) {\n val e = this[i]\n if (e.isNaN()) return e\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\npublic fun <T : Comparable<T>> Array<out T>.min(): T? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\npublic fun ByteArray.min(): Byte? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\npublic fun ShortArray.min(): Short? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\npublic fun IntArray.min(): Int? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\npublic fun LongArray.min(): Long? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\npublic fun FloatArray.min(): Float? {\n if (isEmpty()) return null\n var min = this[0]\n if (min.isNaN()) return min\n for (i in 1..lastIndex) {\n val e = this[i]\n if (e.isNaN()) return e\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\npublic fun DoubleArray.min(): Double? {\n if (isEmpty()) return null\n var min = this[0]\n if (min.isNaN()) return min\n for (i in 1..lastIndex) {\n val e = this[i]\n if (e.isNaN()) return e\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\npublic fun CharArray.min(): Char? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <T, R : Comparable<R>> Array<out T>.minBy(selector: (T) -> R): T? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R : Comparable<R>> ByteArray.minBy(selector: (Byte) -> R): Byte? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R : Comparable<R>> ShortArray.minBy(selector: (Short) -> R): Short? {\n if (isEmpty()) return null\n var minElem = this[0]\n val

lastIndex = this.lastIndex\n   if (lastIndex == 0) return minElem\n   var minValue = selector(minElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (minValue > v) {\n   minElem = e\n   minValue = v\n   }\n   }\n   return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R : Comparable<R>> IntArray.minBy(selector: (Int) -> R): Int? {\n   if (isEmpty()) return null\n   var minElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return minElem\n   var minValue = selector(minElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (minValue > v) {\n   minElem = e\n   minValue = v\n   }\n   }\n   return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R : Comparable<R>> LongArray.minBy(selector: (Long) -> R): Long? {\n   if (isEmpty()) return null\n   var minElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return minElem\n   var minValue = selector(minElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (minValue > v) {\n   minElem = e\n   minValue = v\n   }\n   }\n   return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R : Comparable<R>> FloatArray.minBy(selector: (Float) -> R): Float? {\n   if (isEmpty()) return null\n   var minElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return minElem\n   var minValue = selector(minElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (minValue > v) {\n   minElem = e\n   minValue = v\n   }\n   }\n   return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R : Comparable<R>> DoubleArray.minBy(selector: (Double) -> R): Double? {\n   if (isEmpty()) return null\n   var minElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return minElem\n   var minValue = selector(minElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (minValue > v) {\n   minElem = e\n   minValue = v\n   }\n   }\n   return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R : Comparable<R>> BooleanArray.minBy(selector: (Boolean) -> R): Boolean? {\n   if (isEmpty()) return null\n   var minElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return minElem\n   var minValue = selector(minElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (minValue > v) {\n   minElem = e\n   minValue = v\n   }\n   }\n   return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R : Comparable<R>> CharArray.minBy(selector: (Char) -> R): Char? {\n   if (isEmpty()) return null\n   var minElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return minElem\n   var minValue = selector(minElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (minValue > v) {\n   minElem = e\n   minValue = v\n   }\n   }\n   return minElem\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun <T> Array<out T>.minWith(comparator: Comparator<in T>): T? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(min, e) > 0) min = e\n   }\n   return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun ByteArray.minWith(comparator: Comparator<in Byte>): Byte? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(min, e) > 0) min = e\n   }\n   return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun ShortArray.minWith(comparator: Comparator<in Short>): Short? {\n   if (isEmpty()) return null\n   var min =

this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(min, e) > 0) min = e\n   }\n   return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun IntArray.minWith(comparator: Comparator<in Int>): Int? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(min, e) > 0) min = e\n   }\n   return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun LongArray.minWith(comparator: Comparator<in Long>): Long? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(min, e) > 0) min = e\n   }\n   return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun FloatArray.minWith(comparator: Comparator<in Float>): Float? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(min, e) > 0) min = e\n   }\n   return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun DoubleArray.minWith(comparator: Comparator<in Double>): Double? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(min, e) > 0) min = e\n   }\n   return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun BooleanArray.minWith(comparator: Comparator<in Boolean>): Boolean? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(min, e) > 0) min = e\n   }\n   return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun CharArray.minWith(comparator: Comparator<in Char>): Char? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(min, e) > 0) min = e\n   }\n   return min\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun <T> Array<out T>.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun ByteArray.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun ShortArray.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun IntArray.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun LongArray.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun FloatArray.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun DoubleArray.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun BooleanArray.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun CharArray.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun <T> Array<out T>.none(predicate: (T) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun ByteArray.none(predicate: (Byte) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun ShortArray.none(predicate:

(Short) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun IntArray.none(predicate: (Int) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun LongArray.none(predicate: (Long) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun FloatArray.none(predicate: (Float) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun DoubleArray.none(predicate: (Double) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun BooleanArray.none(predicate: (Boolean) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun CharArray.none(predicate: (Char) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <S, T : S> Array<out T>.reduce(operation: (acc: S, T) -> S): S {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator: S = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun ByteArray.reduce(operation: (acc: Byte, Byte) -> Byte): Byte {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun ShortArray.reduce(operation: (acc: Short, Short) -> Short): Short {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun IntArray.reduce(operation: (acc: Int, Int) -> Int): Int {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun LongArray.reduce(operation: (acc: Long, Long) -> Long): Long {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun FloatArray.reduce(operation: (acc: Float, Float) -> Float): Float {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun DoubleArray.reduce(operation: (acc: Double, Double) -> Double): Double {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty

array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun BooleanArray.reduce(operation: (acc: Boolean, Boolean) -> Boolean): Boolean {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun CharArray.reduce(operation: (acc: Char, Char) -> Char): Char {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\npublic inline fun <S, T : S> Array<out T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator: S = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\npublic inline fun ByteArray.reduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): Byte {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\npublic inline fun ShortArray.reduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): Short {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\npublic inline fun IntArray.reduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): Int {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\npublic inline fun LongArray.reduceIndexed(operation: (index: Int, acc: Long, Long) -> Long): Long {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\npublic inline fun FloatArray.reduceIndexed(operation: (index: Int, acc: Float, Float) -> Float): Float {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be

reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\npublic inline fun DoubleArray.reduceIndexed(operation: (index: Int, acc: Double, Double) -> Double): Double {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\npublic inline fun BooleanArray.reduceIndexed(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): Boolean {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\npublic inline fun CharArray.reduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): Char {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun <S, T : S> Array<out T>.reduceRight(operation: (T, acc: S) -> S): S {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator: S = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun ByteArray.reduceRight(operation: (Byte, acc: Byte) -> Byte): Byte {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun ShortArray.reduceRight(operation: (Short, acc: Short) -> Short): Short {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun IntArray.reduceRight(operation: (Int, acc: Int) -> Int): Int {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun LongArray.reduceRight(operation: (Long, acc: Long) -> Long): Long {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun FloatArray.reduceRight(operation: (Float, acc: Float) -> Float): Float {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while

(index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun DoubleArray.reduceRight(operation: (Double, acc: Double) -> Double): Double {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun BooleanArray.reduceRight(operation: (Boolean, acc: Boolean) -> Boolean): Boolean {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun CharArray.reduceRight(operation: (Char, acc: Char) -> Char): Char {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <S, T : S> Array<out T>.reduceRightIndexed(operation: (index: Int, T, acc: S) -> S): S {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator: S = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun ByteArray.reduceRightIndexed(operation: (index: Int, Byte, acc: Byte) -> Byte): Byte {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun ShortArray.reduceRightIndexed(operation: (index: Int, Short, acc: Short) -> Short): Short {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun IntArray.reduceRightIndexed(operation: (index: Int, Int, acc: Int) -> Int): Int {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun LongArray.reduceRightIndexed(operation: (index: Int, Long, acc: Long) -> Long): Long {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index),

accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun FloatArray.reduceRightIndexed(operation: (index: Int, Float, acc: Float) -> Float): Float {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun DoubleArray.reduceRightIndexed(operation: (index: Int, Double, acc: Double) -> Double): Double {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun BooleanArray.reduceRightIndexed(operation: (index: Int, Boolean, acc: Boolean) -> Boolean): Boolean {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun CharArray.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun <T> Array<out T>.sumBy(selector: (T) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun ByteArray.sumBy(selector: (Byte) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun ShortArray.sumBy(selector: (Short) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun IntArray.sumBy(selector: (Int) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun LongArray.sumBy(selector: (Long) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun FloatArray.sumBy(selector: (Float) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun DoubleArray.sumBy(selector: (Double) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun BooleanArray.sumBy(selector: (Boolean) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n

sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun CharArray.sumBy(selector: (Char) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun <T> Array<out T>.sumByDouble(selector: (T) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun ByteArray.sumByDouble(selector: (Byte) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun ShortArray.sumByDouble(selector: (Short) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun IntArray.sumByDouble(selector: (Int) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun LongArray.sumByDouble(selector: (Long) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun FloatArray.sumByDouble(selector: (Float) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun DoubleArray.sumByDouble(selector: (Double) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun BooleanArray.sumByDouble(selector: (Boolean) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun CharArray.sumByDouble(selector: (Char) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns an original collection containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.\n */\npublic fun <T : Any> Array<T?>.requireNoNulls(): Array<T> {\n for (element in this) {\n if (element == null) {\n throw IllegalArgumentException(\"null element found in $this.\")\n }\n }\n @Suppress(\"UNCHECKED_CAST\")\n return this as Array<T>\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */\npublic inline fun <T> Array<out T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {\n val first = ArrayList<T>()\n val second = ArrayList<T>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */\npublic inline fun ByteArray.partition(predicate: (Byte) -> Boolean): Pair<List<Byte>, List<Byte>> {\n val first = ArrayList<Byte>()\n val second = ArrayList<Byte>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */\npublic inline fun ShortArray.partition(predicate: (Short) -> Boolean): Pair<List<Short>, List<Short>> {\n val first = ArrayList<Short>()\n val second = ArrayList<Short>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list

contains elements for which [predicate] yielded `false`.\n */\npublic inline fun IntArray.partition(predicate: (Int) -> Boolean): Pair<List<Int>, List<Int>> {\n val first = ArrayList<Int>()\n val second = ArrayList<Int>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */\npublic inline fun LongArray.partition(predicate: (Long) -> Boolean): Pair<List<Long>, List<Long>> {\n val first = ArrayList<Long>()\n val second = ArrayList<Long>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */\npublic inline fun FloatArray.partition(predicate: (Float) -> Boolean): Pair<List<Float>, List<Float>> {\n val first = ArrayList<Float>()\n val second = ArrayList<Float>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */\npublic inline fun DoubleArray.partition(predicate: (Double) -> Boolean): Pair<List<Double>, List<Double>> {\n val first = ArrayList<Double>()\n val second = ArrayList<Double>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */\npublic inline fun BooleanArray.partition(predicate: (Boolean) -> Boolean): Pair<List<Boolean>, List<Boolean>> {\n val first = ArrayList<Boolean>()\n val second = ArrayList<Boolean>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */\npublic inline fun CharArray.partition(predicate: (Char) -> Boolean): Pair<List<Char>, List<Char>> {\n val first = ArrayList<Char>()\n val second = ArrayList<Char>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <T, R> Array<out T>.zip(other: Array<out R>): List<Pair<T, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> ByteArray.zip(other: Array<out R>): List<Pair<Byte, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> ShortArray.zip(other: Array<out R>): List<Pair<Short, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> IntArray.zip(other: Array<out R>): List<Pair<Int, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> LongArray.zip(other: Array<out R>): List<Pair<Long, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest

collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> FloatArray.zip(other: Array<out R>): List<Pair<Float, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> DoubleArray.zip(other: Array<out R>): List<Pair<Double, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> BooleanArray.zip(other: Array<out R>): List<Pair<Boolean, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> CharArray.zip(other: Array<out R>): List<Pair<Char, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <T, R, V> Array<out T>.zip(other: Array<out R>, transform: (a: T, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> ByteArray.zip(other: Array<out R>, transform: (a: Byte, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> ShortArray.zip(other: Array<out R>, transform: (a: Short, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> IntArray.zip(other: Array<out R>, transform: (a: Int, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> LongArray.zip(other: Array<out R>, transform: (a: Long, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> FloatArray.zip(other: Array<out R>, transform: (a: Float, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned

list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> DoubleArray.zip(other: Array<out R>, transform: (a: Double, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> BooleanArray.zip(other: Array<out R>, transform: (a: Boolean, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   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Iterable<R>): List<Pair<T, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> ByteArray.zip(other: Iterable<R>): List<Pair<Byte, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> ShortArray.zip(other: Iterable<R>): List<Pair<Short, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length 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other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> DoubleArray.zip(other: Iterable<R>, transform: (a: Double, b: R) -> V): List<V> {\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The 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BooleanArray.zip(other: Iterable<R>, transform: (a: Boolean, b: R) -> V): List<V> {\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> CharArray.zip(other: Iterable<R>, transform: (a: Char, b: R) -> V): List<V> {\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return 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CharArray): List<Pair<Char, Char>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <V> ByteArray.zip(other: ByteArray, transform: (a: Byte, b: Byte) -> V): List<V> {\n val size = minOf(size, other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample 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= null): A {\n   buffer.append(prefix)\n   var count = 0\n   for (element in this) {\n   if (++count > 1) buffer.append(separator)\n   if (limit < 0 || count <= limit) {\n   buffer.appendElement(element, transform)\n   } else break\n   }\n   if (limit >= 0 && count > limit) buffer.append(truncated)\n   buffer.append(postfix)\n   return buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A :

Appendable> ByteArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Byte) -> CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\n buffer.append(transform(element))\n else\n buffer.append(element.toString())\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable> ShortArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Short) -> CharSequence)? 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= null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\n buffer.append(transform(element))\n else\n buffer.append(element.toString())\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable> FloatArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Float) -> CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\n buffer.append(transform(element))\n else\n buffer.append(element.toString())\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of

[limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable> DoubleArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Double) -> CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\n buffer.append(transform(element))\n else\n buffer.append(element.toString())\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable> BooleanArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Boolean) -> CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\n buffer.append(transform(element))\n else\n buffer.append(element.toString())\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable> CharArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Char) -> CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\n buffer.append(transform(element))\n else\n buffer.append(element)\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun <T> Array<out T>.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((T) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun ByteArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Byte) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun ShortArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Short) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(),

separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun IntArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Int) -> CharSequence)? = null): String {\n   return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun LongArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Long) -> CharSequence)? = null): String {\n   return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun FloatArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Float) -> CharSequence)? = null): String {\n   return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun DoubleArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Double) -> CharSequence)? = null): String {\n   return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun BooleanArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Boolean) -> CharSequence)? = null): String {\n   return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun CharArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Char) -> CharSequence)? = null): String {\n   return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun <T> Array<out T>.asIterable(): Iterable<T> {\n   if (isEmpty()) return emptyList()\n   return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun ByteArray.asIterable(): Iterable<Byte> {\n   if (isEmpty()) return emptyList()\n   return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being

iterated.\n */\npublic fun ShortArray.asIterable(): Iterable<Short> {\n   if (isEmpty()) return emptyList()\n   return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun IntArray.asIterable(): Iterable<Int> {\n   if (isEmpty()) return emptyList()\n   return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun LongArray.asIterable(): Iterable<Long> {\n   if (isEmpty()) return emptyList()\n   return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun FloatArray.asIterable(): Iterable<Float> {\n   if (isEmpty()) return emptyList()\n   return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun DoubleArray.asIterable(): Iterable<Double> {\n   if (isEmpty()) return emptyList()\n   return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun BooleanArray.asIterable(): Iterable<Boolean> {\n   if (isEmpty()) return emptyList()\n   return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun CharArray.asIterable(): Iterable<Char> {\n   if (isEmpty()) return emptyList()\n   return Iterable { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun <T> Array<out T>.asSequence(): Sequence<T> {\n   if (isEmpty()) return emptySequence()\n   return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun ByteArray.asSequence(): Sequence<Byte> {\n   if (isEmpty()) return emptySequence()\n   return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun ShortArray.asSequence(): Sequence<Short> {\n   if (isEmpty()) return emptySequence()\n   return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun IntArray.asSequence(): Sequence<Int> {\n   if (isEmpty()) return emptySequence()\n   return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun LongArray.asSequence(): Sequence<Long> {\n   if (isEmpty()) return emptySequence()\n   return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun FloatArray.asSequence(): Sequence<Float> {\n   if (isEmpty()) return emptySequence()\n   return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun DoubleArray.asSequence(): Sequence<Double> {\n   if (isEmpty()) return emptySequence()\n   return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun BooleanArray.asSequence(): Sequence<Boolean> {\n   if (isEmpty()) return emptySequence()\n   return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun CharArray.asSequence(): Sequence<Char> {\n   if (isEmpty()) return emptySequence()\n   return Sequence { this.iterator() }\n}\n\n/**\n * Returns an average value of elements in the array.\n */\n@kotlin.jvm.JvmName(\"averageOfByte\")\npublic fun Array<out Byte>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   ++count\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\n@kotlin.jvm.JvmName(\"averageOfShort\")\npublic fun Array<out Short>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   ++count\n   }\n   return

if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\n@kotlin.jvm.JvmName(\"averageOfInt\")\npublic fun Array<out Int>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\n@kotlin.jvm.JvmName(\"averageOfLong\")\npublic fun Array<out Long>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\n@kotlin.jvm.JvmName(\"averageOfFloat\")\npublic fun Array<out Float>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\n@kotlin.jvm.JvmName(\"averageOfDouble\")\npublic fun Array<out Double>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun ByteArray.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun ShortArray.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun IntArray.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun LongArray.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun FloatArray.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun DoubleArray.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfByte\")\npublic fun Array<out Byte>.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfShort\")\npublic fun Array<out Short>.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfInt\")\npublic fun Array<out Int>.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfLong\")\npublic fun Array<out Long>.sum(): Long {\n var sum: Long = 0L\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfFloat\")\npublic fun Array<out Float>.sum(): Float {\n var sum: Float = 0.0f\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfDouble\")\npublic fun Array<out Double>.sum(): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun ByteArray.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun ShortArray.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun IntArray.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun LongArray.sum(): Long {\n var sum: Long = 0L\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the

sum of all elements in the array.\n */\npublic fun FloatArray.sum(): Float {\n   var sum: Float = 0.0f\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun DoubleArray.sum(): Double {\n   var sum: Double = 0.0\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"RangesKt\")\n\npackage kotlin.ranges\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\n\n/**\n * Returns a random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun IntRange.random(): Int {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun LongRange.random(): Long {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun CharRange.random(): Char {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun IntRange.random(random: Random): Int {\n   try {\n   return random.nextInt(this)\n   } catch(e: IllegalArgumentException) {\n   throw NoSuchElementException(e.message)\n   }\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun LongRange.random(random: Random): Long {\n   try {\n   return random.nextLong(this)\n   } catch(e: IllegalArgumentException) {\n   throw NoSuchElementException(e.message)\n   }\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun CharRange.random(random: Random): Char {\n   try {\n   return random.nextInt(first.toInt(), last.toInt() + 1).toChar()\n   } catch(e: IllegalArgumentException) {\n   throw NoSuchElementException(e.message)\n   }\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline operator fun IntRange.contains(element: Int?): Boolean {\n   return element != null && contains(element)\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline operator fun LongRange.contains(element: Long?): Boolean {\n   return element != null && contains(element)\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline operator fun CharRange.contains(element: Char?): Boolean {\n   return element != null && contains(element)\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"intRangeContains\")\npublic operator fun ClosedRange<Int>.contains(value: Byte): Boolean {\n   return contains(value.toInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"longRangeContains\")\npublic operator fun ClosedRange<Long>.contains(value: Byte): Boolean {\n   return contains(value.toLong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"shortRangeContains\")\npublic operator fun ClosedRange<Short>.contains(value: Byte): Boolean {\n   return contains(value.toShort())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"doubleRangeContains\")\npublic operator fun ClosedRange<Double>.contains(value: Byte): Boolean {\n   return contains(value.toDouble())\n}\n\n/**\n *

Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"floatRangeContains\")\npublic operator fun ClosedRange<Float>.contains(value: Byte): Boolean {\n   return contains(value.toFloat())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"intRangeContains\")\npublic operator fun ClosedRange<Int>.contains(value: Double): Boolean {\n   return value.toIntExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"longRangeContains\")\npublic operator fun ClosedRange<Long>.contains(value: Double): Boolean {\n   return value.toLongExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"byteRangeContains\")\npublic operator fun ClosedRange<Byte>.contains(value: Double): Boolean {\n   return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"shortRangeContains\")\npublic operator fun ClosedRange<Short>.contains(value: Double): Boolean {\n   return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"floatRangeContains\")\npublic operator fun ClosedRange<Float>.contains(value: Double): Boolean {\n   return contains(value.toFloat())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"intRangeContains\")\npublic operator fun ClosedRange<Int>.contains(value: Float): Boolean {\n   return value.toIntExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"longRangeContains\")\npublic operator fun ClosedRange<Long>.contains(value: Float): Boolean {\n   return value.toLongExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"byteRangeContains\")\npublic operator fun ClosedRange<Byte>.contains(value: Float): Boolean {\n   return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"shortRangeContains\")\npublic operator fun ClosedRange<Short>.contains(value: Float): Boolean {\n   return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"doubleRangeContains\")\npublic operator fun ClosedRange<Double>.contains(value: Float): Boolean {\n   return contains(value.toDouble())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"longRangeContains\")\npublic operator fun ClosedRange<Long>.contains(value: Int): Boolean {\n   return contains(value.toLong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"byteRangeContains\")\npublic operator fun ClosedRange<Byte>.contains(value: Int): Boolean {\n   return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"shortRangeContains\")\npublic operator fun ClosedRange<Short>.contains(value: Int): Boolean {\n   return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if

the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"doubleRangeContains\")\npublic operator fun ClosedRange<Double>.contains(value: Int): Boolean {\n   return contains(value.toDouble())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"floatRangeContains\")\npublic operator fun ClosedRange<Float>.contains(value: Int): Boolean {\n   return contains(value.toFloat())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"intRangeContains\")\npublic operator fun ClosedRange<Int>.contains(value: Long): Boolean {\n   return value.toIntExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"byteRangeContains\")\npublic operator fun ClosedRange<Byte>.contains(value: Long): Boolean {\n   return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"shortRangeContains\")\npublic operator fun ClosedRange<Short>.contains(value: Long): Boolean {\n   return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"doubleRangeContains\")\npublic operator fun ClosedRange<Double>.contains(value: Long): Boolean {\n   return contains(value.toDouble())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"floatRangeContains\")\npublic operator fun ClosedRange<Float>.contains(value: Long): Boolean {\n   return contains(value.toFloat())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"intRangeContains\")\npublic operator fun ClosedRange<Int>.contains(value: Short): Boolean {\n   return contains(value.toInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"longRangeContains\")\npublic operator fun ClosedRange<Long>.contains(value: Short): Boolean {\n   return contains(value.toLong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"byteRangeContains\")\npublic operator fun ClosedRange<Byte>.contains(value: Short): Boolean {\n   return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"doubleRangeContains\")\npublic operator fun ClosedRange<Double>.contains(value: Short): Boolean {\n   return contains(value.toDouble())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"floatRangeContains\")\npublic operator fun ClosedRange<Float>.contains(value: Short): Boolean {\n   return contains(value.toFloat())\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Int.downTo(to: Byte): IntProgression {\n   return IntProgression.fromClosedRange(this, to.toInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Long.downTo(to: Byte): LongProgression {\n   return LongProgression.fromClosedRange(this, to.toLong(), -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Byte.downTo(to: Byte): IntProgression {\n   return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The

[to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Short.downTo(to: Byte): IntProgression {\n   return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Char.downTo(to: Char): CharProgression {\n   return CharProgression.fromClosedRange(this, to, -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Int.downTo(to: Int): IntProgression {\n   return IntProgression.fromClosedRange(this, to, -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Long.downTo(to: Int): LongProgression {\n   return LongProgression.fromClosedRange(this, to.toLong(), -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Byte.downTo(to: Int): IntProgression {\n   return IntProgression.fromClosedRange(this.toInt(), to, -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Short.downTo(to: Int): IntProgression {\n   return IntProgression.fromClosedRange(this.toInt(), to, -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Int.downTo(to: Long): LongProgression {\n   return LongProgression.fromClosedRange(this.toLong(), to, -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Long.downTo(to: Long): LongProgression {\n   return LongProgression.fromClosedRange(this, to, -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Byte.downTo(to: Long): LongProgression {\n   return LongProgression.fromClosedRange(this.toLong(), to, -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Short.downTo(to: Long): LongProgression {\n   return LongProgression.fromClosedRange(this.toLong(), to, -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Int.downTo(to: Short): IntProgression {\n   return IntProgression.fromClosedRange(this, to.toInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Long.downTo(to: Short): LongProgression {\n   return LongProgression.fromClosedRange(this, to.toLong(), -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Byte.downTo(to: Short): IntProgression {\n   return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Short.downTo(to: Short): IntProgression {\n   return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the same step.\n

*/\npublic fun IntProgression.reversed(): IntProgression {\n   return IntProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the same step.\n */\npublic fun LongProgression.reversed(): LongProgression {\n   return LongProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the same step.\n */\npublic fun CharProgression.reversed(): CharProgression {\n   return CharProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a progression that goes over the same range with the given step.\n */\npublic infix fun IntProgression.step(step: Int): IntProgression {\n   checkStepIsPositive(step > 0, step)\n   return IntProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/**\n * Returns a progression that goes over the same range with the given step.\n */\npublic infix fun LongProgression.step(step: Long): LongProgression {\n   checkStepIsPositive(step > 0, step)\n   return LongProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/**\n * Returns a progression that goes over the same range with the given step.\n */\npublic infix fun CharProgression.step(step: Int): CharProgression {\n   checkStepIsPositive(step > 0, step)\n   return CharProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\ninternal fun Int.toByteExactOrNull(): Byte? {\n   return if (this in Byte.MIN_VALUE.toInt()..Byte.MAX_VALUE.toInt()) this.toByte() else null\n}\n\ninternal fun Long.toByteExactOrNull(): Byte? {\n   return if (this in Byte.MIN_VALUE.toLong()..Byte.MAX_VALUE.toLong()) this.toByte() else null\n}\n\ninternal fun Short.toByteExactOrNull(): Byte? {\n   return if (this in Byte.MIN_VALUE.toShort()..Byte.MAX_VALUE.toShort()) this.toByte() else null\n}\n\ninternal fun Double.toByteExactOrNull(): Byte? {\n   return if (this in Byte.MIN_VALUE.toDouble()..Byte.MAX_VALUE.toDouble()) this.toByte() else null\n}\n\ninternal fun Float.toByteExactOrNull(): Byte? {\n   return if (this in Byte.MIN_VALUE.toFloat()..Byte.MAX_VALUE.toFloat()) this.toByte() else null\n}\n\ninternal fun Long.toIntExactOrNull(): Int? {\n   return if (this in Int.MIN_VALUE.toLong()..Int.MAX_VALUE.toLong()) this.toInt() else null\n}\n\ninternal fun Double.toIntExactOrNull(): Int? {\n   return if (this in Int.MIN_VALUE.toDouble()..Int.MAX_VALUE.toDouble()) this.toInt() else null\n}\n\ninternal fun Float.toIntExactOrNull(): Int? {\n   return if (this in Int.MIN_VALUE.toFloat()..Int.MAX_VALUE.toFloat()) this.toInt() else null\n}\n\ninternal fun Double.toLongExactOrNull(): Long? {\n   return if (this in Long.MIN_VALUE.toDouble()..Long.MAX_VALUE.toDouble()) this.toLong() else null\n}\n\ninternal fun Float.toLongExactOrNull(): Long? {\n   return if (this in Long.MIN_VALUE.toFloat()..Long.MAX_VALUE.toFloat()) this.toLong() else null\n}\n\ninternal fun Int.toShortExactOrNull(): Short? {\n   return if (this in Short.MIN_VALUE.toInt()..Short.MAX_VALUE.toInt()) this.toShort() else null\n}\n\ninternal fun Long.toShortExactOrNull(): Short? {\n   return if (this in Short.MIN_VALUE.toLong()..Short.MAX_VALUE.toLong()) this.toShort() else null\n}\n\ninternal fun Double.toShortExactOrNull(): Short? {\n   return if (this in Short.MIN_VALUE.toDouble()..Short.MAX_VALUE.toDouble()) this.toShort() else null\n}\n\ninternal fun Float.toShortExactOrNull(): Short? {\n   return if (this in Short.MIN_VALUE.toFloat()..Short.MAX_VALUE.toFloat()) this.toShort() else null\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Int.until(to: Byte): IntRange {\n   return this .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Long.until(to: Byte): LongRange {\n   return this .. (to.toLong() - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Byte.until(to: Byte): IntRange {\n   return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Short.until(to: Byte): IntRange {\n   return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range from

this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Char.until(to: Char): CharRange {\n   if (to <= '\\u0000') return CharRange.EMPTY\n   return this .. (to - 1).toChar()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Int.until(to: Int): IntRange {\n   if (to <= Int.MIN_VALUE) return IntRange.EMPTY\n   return this .. (to - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Long.until(to: Int): LongRange {\n   return this .. (to.toLong() - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Byte.until(to: Int): IntRange {\n   if (to <= Int.MIN_VALUE) return IntRange.EMPTY\n   return this.toInt() .. (to - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Short.until(to: Int): IntRange {\n   if (to <= Int.MIN_VALUE) return IntRange.EMPTY\n   return this.toInt() .. (to - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Int.until(to: Long): LongRange {\n   if (to <= Long.MIN_VALUE) return LongRange.EMPTY\n   return this.toLong() .. (to - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Long.until(to: Long): LongRange {\n   if (to <= Long.MIN_VALUE) return LongRange.EMPTY\n   return this .. (to - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Byte.until(to: Long): LongRange {\n   if (to <= Long.MIN_VALUE) return LongRange.EMPTY\n   return this.toLong() .. (to - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Short.until(to: Long): LongRange {\n   if (to <= Long.MIN_VALUE) return LongRange.EMPTY\n   return this.toLong() .. (to - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Int.until(to: Short): IntRange {\n   return this .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Long.until(to: Short): LongRange {\n   return this .. (to.toLong() - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Byte.until(to: Short): IntRange {\n   return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Short.until(to: Short): IntRange {\n   return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeastComparable\n */\npublic fun <T : Comparable<T>> T.coerceAtLeast(minimumValue: T): T {\n   return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun Byte.coerceAtLeast(minimumValue: Byte): Byte {\n   return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun Short.coerceAtLeast(minimumValue: Short): Short {\n   return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n

* @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun Int.coerceAtLeast(minimumValue: Int): Int {\n   return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun Long.coerceAtLeast(minimumValue: Long): Long {\n   return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun Float.coerceAtLeast(minimumValue: Float): Float {\n   return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun Double.coerceAtLeast(minimumValue: Double): Double {\n   return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMostComparable\n */\npublic fun <T : Comparable<T>> T.coerceAtMost(maximumValue: T): T {\n   return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Byte.coerceAtMost(maximumValue: Byte): Byte {\n   return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Short.coerceAtMost(maximumValue: Short): Short {\n   return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Int.coerceAtMost(maximumValue: Int): Int {\n   return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Long.coerceAtMost(maximumValue: Long): Long {\n   return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Float.coerceAtMost(maximumValue: Float): Float {\n   return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Double.coerceAtMost(maximumValue: Double): Double {\n   return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInComparable\n */\npublic fun <T : Comparable<T>> T.coerceIn(minimumValue: T?, maximumValue: T?): T {\n   if (minimumValue !== null && maximumValue !== null) {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n   if (this < minimumValue) return minimumValue\n   if (this >

maximumValue) return maximumValue\n   }\n   else {\n   if (minimumValue !== null && this < minimumValue) return minimumValue\n   if (maximumValue !== null && this > maximumValue) return maximumValue\n   }\n   return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Byte.coerceIn(minimumValue: Byte, maximumValue: Byte): Byte {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n   if (this < minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n   return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Short.coerceIn(minimumValue: Short, maximumValue: Short): Short {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n   if (this < minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n   return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Int.coerceIn(minimumValue: Int, maximumValue: Int): Int {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n   if (this < minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n   return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Long.coerceIn(minimumValue: Long, maximumValue: Long): Long {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n   if (this < minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n   return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Float.coerceIn(minimumValue: Float, maximumValue: Float): Float {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n   if (this < minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n   return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Double.coerceIn(minimumValue: Double, maximumValue: Double): Double {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n   if (this < minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n   return this\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample samples.comparisons.ComparableOps.coerceInFloatingPointRange\n */\n@SinceKotlin(\"1.1\")\npublic fun <T : Comparable<T>> T.coerceIn(range: ClosedFloatingPointRange<T>): T {\n   if (range.isEmpty()) throw

IllegalArgumentException(\"Cannot coerce value to an empty range: $range.\")\n   return when {\n   // this < start equiv to this <= start && !(this >= start)\n   range.lessThanOrEquals(this, range.start) && !range.lessThanOrEquals(range.start, this) -> range.start\n   // this > end equiv to this >= end && !(this <= end)\n   range.lessThanOrEquals(range.endInclusive, this) && !range.lessThanOrEquals(this, range.endInclusive) -> range.endInclusive\n   else -> this\n   }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample samples.comparisons.ComparableOps.coerceInComparable\n */\npublic fun <T : Comparable<T>> T.coerceIn(range: ClosedRange<T>): T {\n   if (range is ClosedFloatingPointRange) {\n   return this.coerceIn<T>(range)\n   }\n   if (range.isEmpty()) throw IllegalArgumentException(\"Cannot coerce value to an empty range: $range.\")\n   return when {\n   this < range.start -> range.start\n   this > range.endInclusive -> range.endInclusive\n   else -> this\n   }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Int.coerceIn(range: ClosedRange<Int>): Int {\n   if (range is ClosedFloatingPointRange) {\n   return this.coerceIn<Int>(range)\n   }\n   if (range.isEmpty()) throw IllegalArgumentException(\"Cannot coerce value to an empty range: $range.\")\n   return when {\n   this < range.start -> range.start\n   this > range.endInclusive -> range.endInclusive\n   else -> this\n   }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Long.coerceIn(range: ClosedRange<Long>): Long {\n   if (range is ClosedFloatingPointRange) {\n   return this.coerceIn<Long>(range)\n   }\n   if (range.isEmpty()) throw IllegalArgumentException(\"Cannot coerce value to an empty range: $range.\")\n   return when {\n   this < range.start -> range.start\n   this > range.endInclusive -> range.endInclusive\n   else -> this\n   }\n}\n\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// Auto-generated file. DO NOT EDIT!\r\n\r\npackage kotlin\r\n\r\nimport kotlin.experimental.*\r\n\r\n@Suppress(\"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS\")\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic inline class UByte @PublishedApi internal constructor(@PublishedApi internal val data: Byte) : Comparable<UByte> {\r\n\r\n   companion object {\r\n   /**\r\n   * A constant holding the minimum value an instance of UByte can have.\r\n   */\r\n   public const val MIN_VALUE: UByte = UByte(0)\r\n\r\n   /**\r\n   * A constant holding the maximum value an instance of UByte can have.\r\n   */\r\n   public const val MAX_VALUE: UByte = UByte(-1)\r\n\r\n   /**\r\n   * The number of bytes used to represent an instance of UByte in a binary form.\r\n   */\r\n   public const val SIZE_BYTES: Int = 1\r\n\r\n   /**\r\n   * The number of bits used to represent an instance of UByte in a binary form.\r\n   */\r\n   public const val SIZE_BITS: Int = 8\r\n   }\r\n\r\n   /**\r\n   * Compares this value with the specified value for order.\r\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\r\n   * or a positive number if it's greater than other.\r\n   */\r\n   @kotlin.internal.InlineOnly\r\n   @Suppress(\"OVERRIDE_BY_INLINE\")\r\n   public override inline operator fun compareTo(other: UByte): Int = this.toInt().compareTo(other.toInt())\r\n\r\n   /**\r\n   * Compares this value with the specified value for order.\r\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\r\n   * or a positive number if it's greater than other.\r\n   */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun compareTo(other: UShort): Int = this.toInt().compareTo(other.toInt())\r\n\r\n   /**\r\n   * Compares this value with the specified value for order.\r\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\r\n   * or a positive number if it's greater than other.\r\n   */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun compareTo(other: UInt): Int = this.toUInt().compareTo(other)\r\n\r\n   /**\r\n   * Compares this value with the specified value for order.\r\n   * Returns zero if this value is equal to the specified other value, a negative number if

it's less than other,\r\n * or a positive number if it's greater than other.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun compareTo(other: ULong): Int = this.toULong().compareTo(other)\r\n\r\n /** Adds the other value to this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun plus(other: UByte): UInt = this.toUInt().plus(other.toUInt())\r\n /** Adds the other value to this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun plus(other: UShort): UInt = this.toUInt().plus(other.toUInt())\r\n /** Adds the other value to this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun plus(other: UInt): UInt = this.toUInt().plus(other)\r\n /** Adds the other value to this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)\r\n\r\n /** Subtracts the other value from this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun minus(other: UByte): UInt = this.toUInt().minus(other.toUInt())\r\n /** Subtracts the other value from this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun minus(other: UShort): UInt = this.toUInt().minus(other.toUInt())\r\n /** Subtracts the other value from this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun minus(other: UInt): UInt = this.toUInt().minus(other)\r\n /** Subtracts the other value from this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun minus(other: ULong): ULong = this.toULong().minus(other)\r\n\r\n /** Multiplies this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun times(other: UByte): UInt = this.toUInt().times(other.toUInt())\r\n /** Multiplies this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun times(other: UShort): UInt = this.toUInt().times(other.toUInt())\r\n /** Multiplies this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun times(other: UInt): UInt = this.toUInt().times(other)\r\n /** Multiplies this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun times(other: ULong): ULong = this.toULong().times(other)\r\n\r\n /** Divides this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun div(other: UByte): UInt = this.toUInt().div(other.toUInt())\r\n /** Divides this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun div(other: UShort): UInt = this.toUInt().div(other.toUInt())\r\n /** Divides this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun div(other: UInt): UInt = this.toUInt().div(other)\r\n /** Divides this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun div(other: ULong): ULong = this.toULong().div(other)\r\n\r\n /** Calculates the remainder of dividing this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun rem(other: UByte): UInt = this.toUInt().rem(other.toUInt())\r\n /** Calculates the remainder of dividing this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun rem(other: UShort): UInt = this.toUInt().rem(other.toUInt())\r\n /** Calculates the remainder of dividing this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun rem(other: UInt): UInt = this.toUInt().rem(other)\r\n /** Calculates the remainder of dividing this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)\r\n\r\n /** Increments this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun inc(): UByte = UByte(data.inc())\r\n /** Decrements this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun dec(): UByte = UByte(data.dec())\r\n\r\n /** Creates a range from this value to the specified [other] value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun rangeTo(other: UByte): UIntRange = UIntRange(this.toUInt(), other.toUInt())\r\n\r\n /** Performs a bitwise AND operation between the two values. */\r\n @kotlin.internal.InlineOnly\r\n public inline infix fun and(other: UByte): UByte = UByte(this.data and other.data)\r\n /** Performs a bitwise OR operation between the two values. */\r\n @kotlin.internal.InlineOnly\r\n public inline infix fun or(other: UByte): UByte = UByte(this.data or other.data)\r\n /** Performs a bitwise XOR operation between the two values. */\r\n @kotlin.internal.InlineOnly\r\n public inline infix fun xor(other: UByte): UByte = UByte(this.data xor other.data)\r\n /** Inverts the bits in this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline fun inv(): UByte = UByte(data.inv())\r\n\r\n /**\r\n *

Converts this [UByte] value to [Byte].\r\n *\r\n * If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\r\n * the same numerical value as this `UByte`. Otherwise the result is negative.\r\n *\r\n * The resulting `Byte` value has the same binary representation as this `UByte` value.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toByte(): Byte = data\r\n /**\r\n * Converts this [UByte] value to [Short].\r\n *\r\n * The resulting `Short` value represents the same numerical value as this `UByte`.\r\n *\r\n * The least significant 8 bits of the resulting `Short` value are the same as the bits of this `UByte` value,\r\n * whereas the most significant 8 bits are filled with zeros.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toShort(): Short = data.toShort() and 0xFF\r\n /**\r\n * Converts this [UByte] value to [Int].\r\n *\r\n * The resulting `Int` value represents the same numerical value as this `UByte`.\r\n *\r\n * The least significant 8 bits of the resulting `Int` value are the same as the bits of this `UByte` value,\r\n * whereas the most significant 24 bits are filled with zeros.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toInt(): Int = data.toInt() and 0xFF\r\n /**\r\n * Converts this [UByte] value to [Long].\r\n *\r\n * The resulting `Long` value represents the same numerical value as this `UByte`.\r\n *\r\n * The least significant 8 bits of the resulting `Long` value are the same as the bits of this `UByte` value,\r\n * whereas the most significant 56 bits are filled with zeros.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toLong(): Long = data.toLong() and 0xFF\r\n\r\n /** Returns this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toUByte(): UByte = this\r\n /**\r\n * Converts this [UByte] value to [UShort].\r\n *\r\n * The resulting `UShort` value represents the same numerical value as this `UByte`.\r\n *\r\n * The least significant 8 bits of the resulting `UShort` value are the same as the bits of this `UByte` value,\r\n * whereas the most significant 8 bits are filled with zeros.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toUShort(): UShort = UShort(data.toShort() and 0xFF)\r\n /**\r\n * Converts this [UByte] value to [UInt].\r\n *\r\n * The resulting `UInt` value represents the same numerical value as this `UByte`.\r\n *\r\n * The least significant 8 bits of the resulting `UInt` value are the same as the bits of this `UByte` value,\r\n * whereas the most significant 24 bits are filled with zeros.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toUInt(): UInt = UInt(data.toInt() and 0xFF)\r\n /**\r\n * Converts this [UByte] value to [ULong].\r\n *\r\n * The resulting `ULong` value represents the same numerical value as this `UByte`.\r\n *\r\n * The least significant 8 bits of the resulting `ULong` value are the same as the bits of this `UByte` value,\r\n * whereas the most significant 56 bits are filled with zeros.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toULong(): ULong = ULong(data.toLong() and 0xFF)\r\n\r\n /**\r\n * Converts this [UByte] value to [Float].\r\n *\r\n * The resulting `Float` value represents the same numerical value as this `UByte`.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toFloat(): Float = this.toInt().toFloat()\r\n /**\r\n * Converts this [UByte] value to [Double].\r\n *\r\n * The resulting `Double` value represents the same numerical value as this `UByte`.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toDouble(): Double = this.toInt().toDouble()\r\n\r\n public override fun toString(): String = toInt().toString()\r\n\r\n}\r\n\r\n/**\r\n * Converts this [Byte] value to [UByte].\r\n *\r\n * If this value is positive, the resulting `UByte` value represents the same numerical value as this `Byte`.\r\n *\r\n * The resulting `UByte` value has the same binary representation as this `Byte` value.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Byte.toUByte(): UByte = UByte(this)\r\n/**\r\n * Converts this [Short] value to [UByte].\r\n *\r\n * If this value is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\r\n * the same numerical value as this `Short`.\r\n *\r\n * The resulting `UByte` value is represented by the least significant 8 bits of this `Short` value.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Short.toUByte(): UByte = UByte(this.toByte())\r\n/**\r\n * Converts this [Int] value to [UByte].\r\n *\r\n * If this value is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\r\n * the same numerical value as this `Int`.\r\n *\r\n * The resulting `UByte` value is represented by the least significant 8 bits of this `Int` value.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun

Int.toUByte(): UByte = UByte(this.toByte())\r\n/**\r\n * Converts this [Long] value to [UByte].\r\n *\r\n * If this value is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\r\n * the same numerical value as this `Long`.\r\n *\r\n * The resulting `UByte` value is represented by the least significant 8 bits of this `Long` value.\r\n
/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Long.toUByte(): UByte = UByte(this.toByte())\r\n","/\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// Auto-generated file. DO NOT EDIT!\r\n\r\npackage kotlin\r\n\r\nimport
kotlin.experimental.*\r\n\r\n@Suppress(\"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS\")\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic inline class UInt @PublishedApi internal constructor(@PublishedApi internal val data: Int) : Comparable<UInt> {\r\n\r\n companion object {\r\n /**\r\n * A constant holding the minimum value an instance of UInt can have.\r\n */\r\n public const val MIN_VALUE: UInt = UInt(0)\r\n\r\n /**\r\n * A constant holding the maximum value an instance of UInt can have.\r\n */\r\n public const val MAX_VALUE: UInt = UInt(-1)\r\n\r\n /**\r\n * The number of bytes used to represent an instance of UInt in a binary form.\r\n */\r\n public const val SIZE_BYTES: Int = 4\r\n\r\n /**\r\n * The number of bits used to represent an instance of UInt in a binary form.\r\n */\r\n public const val SIZE_BITS: Int = 32\r\n }\r\n\r\n /**\r\n * Compares this value with the specified value for order.\r\n * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\r\n * or a positive number if it's greater than other.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun compareTo(other: UByte): Int = this.compareTo(other.toUInt())\r\n\r\n /**\r\n * Compares this value with the specified value for order.\r\n * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\r\n * or a positive number if it's greater than other.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun compareTo(other: UShort): Int = this.compareTo(other.toUInt())\r\n\r\n /**\r\n * Compares this value with the specified value for order.\r\n * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\r\n * or a positive number if it's greater than other.\r\n */\r\n @kotlin.internal.InlineOnly\r\n @Suppress(\"OVERRIDE_BY_INLINE\")\r\n public override inline operator fun compareTo(other: UInt): Int = uintCompare(this.data, other.data)\r\n\r\n /**\r\n * Compares this value with the specified value for order.\r\n * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\r\n * or a positive number if it's greater than other.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun compareTo(other: ULong): Int = this.toULong().compareTo(other)\r\n\r\n /** Adds the other value to this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun plus(other: UByte): UInt = this.plus(other.toUInt())\r\n /** Adds the other value to this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun plus(other: UShort): UInt = this.plus(other.toUInt())\r\n /** Adds the other value to this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun plus(other: UInt): UInt = UInt(this.data.plus(other.data))\r\n /** Adds the other value to this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)\r\n\r\n /** Subtracts the other value from this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun minus(other: UByte): UInt = this.minus(other.toUInt())\r\n /** Subtracts the other value from this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun minus(other: UShort): UInt = this.minus(other.toUInt())\r\n /** Subtracts the other value from this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun minus(other: UInt): UInt = UInt(this.data.minus(other.data))\r\n /** Subtracts the other value from this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun minus(other: ULong): ULong = this.toULong().minus(other)\r\n\r\n /** Multiplies this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun times(other: UByte): UInt = this.times(other.toUInt())\r\n /** Multiplies this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n

public inline operator fun times(other: UShort): UInt = this.times(other.toUInt())\r\n   /** Multiplies this value by the other value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun times(other: UInt): UInt = UInt(this.data.times(other.data))\r\n   /** Multiplies this value by the other value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun times(other: ULong): ULong = this.toULong().times(other)\r\n\r\n   /** Divides this value by the other value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun div(other: UByte): UInt = this.div(other.toUInt())\r\n   /** Divides this value by the other value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun div(other: UShort): UInt = this.div(other.toUInt())\r\n   /** Divides this value by the other value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun div(other: UInt): UInt = uintDivide(this, other)\r\n   /** Divides this value by the other value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun div(other: ULong): ULong = this.toULong().div(other)\r\n\r\n   /** Calculates the remainder of dividing this value by the other value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun rem(other: UByte): UInt = this.rem(other.toUInt())\r\n   /** Calculates the remainder of dividing this value by the other value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun rem(other: UShort): UInt = this.rem(other.toUInt())\r\n   /** Calculates the remainder of dividing this value by the other value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun rem(other: UInt): UInt = uintRemainder(this, other)\r\n   /** Calculates the remainder of dividing this value by the other value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)\r\n\r\n   /** Increments this value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun inc(): UInt = UInt(data.inc())\r\n   /** Decrements this value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun dec(): UInt = UInt(data.dec())\r\n\r\n   /** Creates a range from this value to the specified [other] value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun rangeTo(other: UInt): UIntRange = UIntRange(this, other)\r\n\r\n   /** Shifts this value left by the [bitCount] number of bits. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline infix fun shl(bitCount: Int): UInt = UInt(data shl bitCount)\r\n   /** Shifts this value right by the [bitCount] number of bits, filling the leftmost bits with zeros. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline infix fun shr(bitCount: Int): UInt = UInt(data ushr bitCount)\r\n   /** Performs a bitwise AND operation between the two values. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline infix fun and(other: UInt): UInt = UInt(this.data and other.data)\r\n   /** Performs a bitwise OR operation between the two values. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline infix fun or(other: UInt): UInt = UInt(this.data or other.data)\r\n   /** Performs a bitwise XOR operation between the two values. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline infix fun xor(other: UInt): UInt = UInt(this.data xor other.data)\r\n   /** Inverts the bits in this value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline fun inv(): UInt = UInt(data.inv())\r\n\r\n   /**\r\n   * Converts this [UInt] value to [Byte].\r\n   *\r\n   * If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\r\n   * the same numerical value as this `UInt`.\r\n   *\r\n   * The resulting `Byte` value is represented by the least significant 8 bits of this `UInt` value.\r\n   * Note that the resulting `Byte` value may be negative.\r\n   */\r\n   @kotlin.internal.InlineOnly\r\n   public inline fun toByte(): Byte = data.toByte()\r\n   /**\r\n   * Converts this [UInt] value to [Short].\r\n   *\r\n   * If this value is less than or equals to [Short.MAX_VALUE], the resulting `Short` value represents\r\n   * the same numerical value as this `UInt`.\r\n   *\r\n   * The resulting `Short` value is represented by the least significant 16 bits of this `UInt` value.\r\n   * Note that the resulting `Short` value may be negative.\r\n   */\r\n   @kotlin.internal.InlineOnly\r\n   public inline fun toShort(): Short = data.toShort()\r\n   /**\r\n   * Converts this [UInt] value to [Int].\r\n   *\r\n   * If this value is less than or equals to [Int.MAX_VALUE], the resulting `Int` value represents\r\n   * the same numerical value as this `UInt`. Otherwise the result is negative.\r\n   *\r\n   * The resulting `Int` value has the same binary representation as this `UInt` value.\r\n   */\r\n   @kotlin.internal.InlineOnly\r\n   public inline fun toInt(): Int = data\r\n   /**\r\n   * Converts this [UInt] value to [Long].\r\n   *\r\n   * The resulting `Long` value represents the same numerical value as this `UInt`.\r\n   *\r\n   * The least significant 32 bits of the resulting `Long` value are the same as the bits of this `UInt` value,\r\n   * whereas the most significant 32 bits are filled with zeros.\r\n   */\r\n   @kotlin.internal.InlineOnly\r\n   public inline fun toLong(): Long = data.toLong() and 0xFFFF_FFFF\r\n\r\n

/**\r\n * Converts this [UInt] value to [UByte].\r\n *\r\n * If this value is less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\r\n * the same numerical value as this `UInt`.\r\n *\r\n * The resulting `UByte` value is represented by the least significant 8 bits of this `UInt` value.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toUByte(): UByte = data.toUByte()\r\n /**\r\n * Converts this [UInt] value to [UShort].\r\n *\r\n * If this value is less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents\r\n * the same numerical value as this `UInt`.\r\n *\r\n * The resulting `UShort` value is represented by the least significant 16 bits of this `UInt` value.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toUShort(): UShort = data.toUShort()\r\n /** Returns this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toUInt(): UInt = this\r\n /**\r\n * Converts this [UInt] value to [ULong].\r\n *\r\n * The resulting `ULong` value represents the same numerical value as this `UInt`.\r\n *\r\n * The least significant 32 bits of the resulting `ULong` value are the same as the bits of this `UInt` value,\r\n * whereas the most significant 32 bits are filled with zeros.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toULong(): ULong = ULong(data.toLong() and 0xFFFF_FFFF)\r\n\r\n /**\r\n * Converts this [UInt] value to [Float].\r\n *\r\n * The resulting value is the closest `Float` to this `UInt` value.\r\n * In case when this `UInt` value is exactly between two `Float`s,\r\n * the one with zero at least significant bit of mantissa is selected.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toFloat(): Float = this.toDouble().toFloat()\r\n /**\r\n * Converts this [UInt] value to [Double].\r\n *\r\n * The resulting `Double` value represents the same numerical value as this `UInt`.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toDouble(): Double = uintToDouble(data)\r\n\r\n public override fun toString(): String = toLong().toString()\r\n\r\n}\r\n\r\n/**\r\n * Converts this [Byte] value to [UInt].\r\n *\r\n * If this value is positive, the resulting `UInt` value represents the same numerical value as this `Byte`.\r\n *\r\n * The least significant 8 bits of the resulting `UInt` value are the same as the bits of this `Byte` value,\r\n * whereas the most significant 24 bits are filled with the sign bit of this value.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Byte.toUInt(): UInt = UInt(this.toInt())\r\n/**\r\n * Converts this [Short] value to [UInt].\r\n *\r\n * If this value is positive, the resulting `UInt` value represents the same numerical value as this `Short`.\r\n *\r\n * The least significant 16 bits of the resulting `UInt` value are the same as the bits of this `Short` value,\r\n * whereas the most significant 16 bits are filled with the sign bit of this value.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Short.toUInt(): UInt = UInt(this.toInt())\r\n/**\r\n * Converts this [Int] value to [UInt].\r\n *\r\n * If this value is positive, the resulting `UInt` value represents the same numerical value as this `Int`.\r\n *\r\n * The resulting `UInt` value has the same binary representation as this `Int` value.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Int.toUInt(): UInt = UInt(this)\r\n/**\r\n * Converts this [Long] value to [UInt].\r\n *\r\n * If this value is positive and less than or equals to [UInt.MAX_VALUE], the resulting `UInt` value represents\r\n * the same numerical value as this `Long`.\r\n *\r\n * The resulting `UInt` value is represented by the least significant 32 bits of this `Long` value.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Long.toUInt(): UInt = UInt(this.toInt())\r\n\r\n/**\r\n * Converts this [Float] value to [UInt].\r\n *\r\n * The fractional part, if any, is rounded down.\r\n * Returns zero if this `Float` value is negative or `NaN`, [UInt.MAX_VALUE] if it's bigger than `UInt.MAX_VALUE`.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Float.toUInt(): UInt = doubleToUInt(this.toDouble())\r\n/**\r\n * Converts this [Double] value to [UInt].\r\n *\r\n * The fractional part, if any, is rounded down.\r\n * Returns zero if this `Double` value is negative or `NaN`, [UInt.MAX_VALUE] if it's bigger than `UInt.MAX_VALUE`.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Double.toUInt(): UInt = doubleToUInt(this)\r\n\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be

found in the license/LICENSE.txt file.\r\n */\r\n\r\n// Auto-generated file. DO NOT EDIT!\r\n\r\npackage kotlin\r\n\r\nimport kotlin.experimental.*\r\n\r\n@Suppress(\"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS\")\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic inline class UShort @PublishedApi internal constructor(@PublishedApi internal val data: Short) : Comparable<UShort> {\r\n\r\n   companion object {\r\n   /**\r\n   * A constant holding the minimum value an instance of UShort can have.\r\n   */\r\n   public const val MIN_VALUE: UShort = UShort(0)\r\n\r\n   /**\r\n   * A constant holding the maximum value an instance of UShort can have.\r\n   */\r\n   public const val MAX_VALUE: UShort = UShort(-1)\r\n\r\n   /**\r\n   * The number of bytes used to represent an instance of UShort in a binary form.\r\n   */\r\n   public const val SIZE_BYTES: Int = 2\r\n\r\n   /**\r\n   * The number of bits used to represent an instance of UShort in a binary form.\r\n   */\r\n   public const val SIZE_BITS: Int = 16\r\n   }\r\n\r\n   /**\r\n   * Compares this value with the specified value for order.\r\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\r\n   * or a positive number if it's greater than other.\r\n   */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun compareTo(other: UByte): Int = this.toInt().compareTo(other.toInt())\r\n\r\n   /**\r\n   * Compares this value with the specified value for order.\r\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\r\n   * or a positive number if it's greater than other.\r\n   */\r\n   @kotlin.internal.InlineOnly\r\n   @Suppress(\"OVERRIDE_BY_INLINE\")\r\n   public override inline operator fun compareTo(other: UShort): Int = this.toInt().compareTo(other.toInt())\r\n\r\n   /**\r\n   * Compares this value with the specified value for order.\r\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\r\n   * or a positive number if it's greater than other.\r\n   */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun compareTo(other: UInt): Int = this.toUInt().compareTo(other)\r\n\r\n   /**\r\n   * Compares this value with the specified value for order.\r\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\r\n   * or a positive number if it's greater than other.\r\n   */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun compareTo(other: ULong): Int = this.toULong().compareTo(other)\r\n\r\n   /** Adds the other value to this value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun plus(other: UByte): UInt = this.toUInt().plus(other.toUInt())\r\n\r\n   /** Adds the other value to this value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun plus(other: UShort): UInt = this.toUInt().plus(other.toUInt())\r\n\r\n   /** Adds the other value to this value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun plus(other: UInt): UInt = this.toUInt().plus(other)\r\n\r\n   /** Adds the other value to this value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)\r\n\r\n   /** Subtracts the other value from this value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun minus(other: UByte): UInt = this.toUInt().minus(other.toUInt())\r\n\r\n   /** Subtracts the other value from this value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun minus(other: UShort): UInt = this.toUInt().minus(other.toUInt())\r\n\r\n   /** Subtracts the other value from this value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun minus(other: UInt): UInt = this.toUInt().minus(other)\r\n\r\n   /** Subtracts the other value from this value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun minus(other: ULong): ULong = this.toULong().minus(other)\r\n\r\n   /** Multiplies this value by the other value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun times(other: UByte): UInt = this.toUInt().times(other.toUInt())\r\n\r\n   /** Multiplies this value by the other value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun times(other: UShort): UInt = this.toUInt().times(other.toUInt())\r\n\r\n   /** Multiplies this value by the other value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun times(other: UInt): UInt = this.toUInt().times(other)\r\n\r\n   /** Multiplies this value by the other value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun times(other: ULong): ULong = this.toULong().times(other)\r\n\r\n   /** Divides this value by the other value. */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun div(other: UByte): UInt = this.toUInt().div(other.toUInt())\r\n\r\n   /** Divides this value by the other value. */\r\n

@kotlin.internal.InlineOnly\r\n public inline operator fun div(other: UShort): UInt = this.toUInt().div(other.toUInt())\r\n /** Divides this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun div(other: UInt): UInt = this.toUInt().div(other)\r\n /** Divides this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun div(other: ULong): ULong = this.toULong().div(other)\r\n\r\n /** Calculates the remainder of dividing this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun rem(other: UByte): UInt = this.toUInt().rem(other.toUInt())\r\n /** Calculates the remainder of dividing this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun rem(other: UShort): UInt = this.toUInt().rem(other.toUInt())\r\n /** Calculates the remainder of dividing this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun rem(other: UInt): UInt = this.toUInt().rem(other)\r\n /** Calculates the remainder of dividing this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)\r\n\r\n /** Increments this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun inc(): UShort = UShort(data.inc())\r\n /** Decrements this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun dec(): UShort = UShort(data.dec())\r\n\r\n /** Creates a range from this value to the specified [other] value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun rangeTo(other: UShort): UIntRange = UIntRange(this.toUInt(), other.toUInt())\r\n\r\n /** Performs a bitwise AND operation between the two values. */\r\n @kotlin.internal.InlineOnly\r\n public inline infix fun and(other: UShort): UShort = UShort(this.data and other.data)\r\n /** Performs a bitwise OR operation between the two values. */\r\n @kotlin.internal.InlineOnly\r\n public inline infix fun or(other: UShort): UShort = UShort(this.data or other.data)\r\n /** Performs a bitwise XOR operation between the two values. */\r\n @kotlin.internal.InlineOnly\r\n public inline infix fun xor(other: UShort): UShort = UShort(this.data xor other.data)\r\n /** Inverts the bits in this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline fun inv(): UShort = UShort(data.inv())\r\n\r\n /**\r\n * Converts this [UShort] value to [Byte].\r\n *\r\n * If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\r\n * the same numerical value as this `UShort`.\r\n *\r\n * The resulting `Byte` value is represented by the least significant 8 bits of this `UShort` value.\r\n * Note that the resulting `Byte` value may be negative.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toByte(): Byte = data.toByte()\r\n /**\r\n * Converts this [UShort] value to [Short].\r\n *\r\n * If this value is less than or equals to [Short.MAX_VALUE], the resulting `Short` value represents\r\n * the same numerical value as this `UShort`. Otherwise the result is negative.\r\n *\r\n * The resulting `Short` value has the same binary representation as this `UShort` value.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toShort(): Short = data\r\n /**\r\n * Converts this [UShort] value to [Int].\r\n *\r\n * The resulting `Int` value represents the same numerical value as this `UShort`.\r\n *\r\n * The least significant 16 bits of the resulting `Int` value are the same as the bits of this `UShort` value,\r\n * whereas the most significant 16 bits are filled with zeros.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toInt(): Int = data.toInt() and 0xFFFF\r\n /**\r\n * Converts this [UShort] value to [Long].\r\n *\r\n * The resulting `Long` value represents the same numerical value as this `UShort`.\r\n *\r\n * The least significant 16 bits of the resulting `Long` value are the same as the bits of this `UShort` value,\r\n * whereas the most significant 48 bits are filled with zeros.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toLong(): Long = data.toLong() and 0xFFFF\r\n\r\n /**\r\n * Converts this [UShort] value to [UByte].\r\n *\r\n * If this value is less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\r\n * the same numerical value as this `UShort`.\r\n *\r\n * The resulting `UByte` value is represented by the least significant 8 bits of this `UShort` value.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toUByte(): UByte = data.toUByte()\r\n /** Returns this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toUShort(): UShort = this\r\n /**\r\n * Converts this [UShort] value to [UInt].\r\n *\r\n * The resulting `UInt` value represents the same numerical value as this `UShort`.\r\n *\r\n * The least significant 16 bits of the resulting `UInt` value are the same as the bits of this `UShort` value,\r\n * whereas the most significant 16 bits are filled with zeros.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toUInt(): UInt = UInt(data.toInt()

and 0xFFFF)\r\n   /**\r\n   * Converts this [UShort] value to [ULong].\r\n   *\r\n   * The resulting `ULong` value represents the same numerical value as this `UShort`.\r\n   *\r\n   * The least significant 16 bits of the resulting `ULong` value are the same as the bits of this `UShort` value,\r\n   * whereas the most significant 48 bits are filled with zeros.\r\n   */\r\n   @kotlin.internal.InlineOnly\r\n   public inline fun toULong(): ULong = ULong(data.toLong() and 0xFFFF)\r\n\r\n   /**\r\n   * Converts this [UShort] value to [Float].\r\n   *\r\n   * The resulting `Float` value represents the same numerical value as this `UShort`.\r\n   */\r\n   @kotlin.internal.InlineOnly\r\n   public inline fun toFloat(): Float = this.toInt().toFloat()\r\n   /**\r\n   * Converts this [UShort] value to [Double].\r\n   *\r\n   * The resulting `Double` value represents the same numerical value as this `UShort`.\r\n   */\r\n   @kotlin.internal.InlineOnly\r\n   public inline fun toDouble(): Double = this.toInt().toDouble()\r\n\r\n   public override fun toString(): String = toInt().toString()\r\n\r\n}\r\n\r\n/**\r\n * Converts this [Byte] value to [UShort].\r\n *\r\n * If this value is positive, the resulting `UShort` value represents the same numerical value as this `Byte`.\r\n *\r\n * The least significant 8 bits of the resulting `UShort` value are the same as the bits of this `Byte` value,\r\n * whereas the most significant 8 bits are filled with the sign bit of this value.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Byte.toUShort(): UShort = UShort(this.toShort())\r\n/**\r\n * Converts this [Short] value to [UShort].\r\n *\r\n * If this value is positive, the resulting `UShort` value represents the same numerical value as this `Short`.\r\n *\r\n * The resulting `UShort` value has the same binary representation as this `Short` value.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Short.toUShort(): UShort = UShort(this)\r\n/**\r\n * Converts this [Int] value to [UShort].\r\n *\r\n * If this value is positive and less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents\r\n * the same numerical value as this `Int`.\r\n *\r\n * The resulting `UShort` value is represented by the least significant 16 bits of this `Int` value.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Int.toUShort(): UShort = UShort(this.toShort())\r\n/**\r\n * Converts this [Long] value to [UShort].\r\n *\r\n * If this value is positive and less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents\r\n * the same numerical value as this `Long`.\r\n *\r\n * The resulting `UShort` value is represented by the least significant 16 bits of this `Long` value.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Long.toUShort(): UShort = UShort(this.toShort())\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// Auto-generated file. DO NOT EDIT!\r\n\r\npackage kotlin.ranges\r\n\r\n/**\r\n * A range of values of type `Char`.\r\n */\r\npublic class CharRange(start: Char, endInclusive: Char) : CharProgression(start, endInclusive, 1), ClosedRange<Char> {\r\n   override val start: Char get() = first\r\n   override val endInclusive: Char get() = last\r\n\r\n   override fun contains(value: Char): Boolean = first <= value && value <= last\r\n\r\n   override fun isEmpty(): Boolean = first > last\r\n\r\n   override fun equals(other: Any?): Boolean =\r\n   other is CharRange && (isEmpty() && other.isEmpty() ||\r\n   first == other.first && last == other.last)\r\n\r\n   override fun hashCode(): Int =\r\n   if (isEmpty()) -1 else (31 * first.toInt() + last.toInt())\r\n\r\n   override fun toString(): String = \"$first..$last\"\r\n\r\n   companion object {\r\n   /** An empty range of values of type Char. */\r\n   public val EMPTY: CharRange = CharRange(1.toChar(), 0.toChar())\r\n   }\r\n}\r\n\r\n/**\r\n * A range of values of type `Int`.\r\n */\r\npublic class IntRange(start: Int, endInclusive: Int) : IntProgression(start, endInclusive, 1), ClosedRange<Int> {\r\n   override val start: Int get() = first\r\n   override val endInclusive: Int get() = last\r\n\r\n   override fun contains(value: Int): Boolean = first <= value && value <= last\r\n\r\n   override fun isEmpty(): Boolean = first > last\r\n\r\n   override fun equals(other: Any?): Boolean =\r\n   other is IntRange && (isEmpty() && other.isEmpty() ||\r\n   first == other.first && last == other.last)\r\n\r\n   override fun hashCode(): Int =\r\n   if (isEmpty()) -1 else (31 * first + last)\r\n\r\n   override fun toString(): String = \"$first..$last\"\r\n\r\n   companion object {\r\n   /** An empty range of values of type Int. */\r\n   public val EMPTY: IntRange = IntRange(1, 0)\r\n   }\r\n}\r\n\r\n/**\r\n * A range of values of type `Long`.\r\n */\r\npublic class LongRange(start: Long, endInclusive: Long) : LongProgression(start,

endInclusive, 1), ClosedRange<Long> {\r\n override val start: Long get() = first\r\n override val endInclusive: Long get() = last\r\n\r\n override fun contains(value: Long): Boolean = first <= value && value <= last\r\n\r\n override fun isEmpty(): Boolean = first > last\r\n\r\n override fun equals(other: Any?): Boolean =\r\n other is LongRange && (isEmpty() && other.isEmpty() ||\r\n first == other.first && last == other.last)\r\n\r\n override fun hashCode(): Int =\r\n if (isEmpty()) -1 else (31 * (first xor (first ushr 32)) + (last xor (last ushr 32))).toInt()\r\n\r\n override fun toString(): String = \"$first..$last\"\r\n\r\n companion object {\r\n /** An empty range of values of type Long. */\r\n public val EMPTY: LongRange = LongRange(1, 0)\r\n }\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"CollectionsKt\")\r\n\r\npackage kotlin.collections\r\n\r\nimport kotlin.contracts.*\r\n\r\ninternal object EmptyIterator : ListIterator<Nothing> {\r\n override fun hasNext(): Boolean = false\r\n override fun hasPrevious(): Boolean = false\r\n override fun nextIndex(): Int = 0\r\n override fun previousIndex(): Int = -1\r\n override fun next(): Nothing = throw NoSuchElementException()\r\n override fun previous(): Nothing = throw NoSuchElementException()\r\n}\r\n\r\ninternal object EmptyList : List<Nothing>, Serializable, RandomAccess {\r\n private const val serialVersionUID: Long = -7390468764508069838L\r\n\r\n override fun equals(other: Any?): Boolean = other is List<*> && other.isEmpty()\r\n override fun hashCode(): Int = 1\r\n override fun toString(): String = \"[]\"\r\n\r\n override val size: Int get() = 0\r\n override fun isEmpty(): Boolean = true\r\n override fun contains(element: Nothing): Boolean = false\r\n override fun containsAll(elements: Collection<Nothing>): Boolean = elements.isEmpty()\r\n\r\n override fun get(index: Int): Nothing = throw IndexOutOfBoundsException(\"Empty list doesn't contain element at index $index.\")\r\n override fun indexOf(element: Nothing): Int = -1\r\n override fun lastIndexOf(element: Nothing): Int = -1\r\n\r\n override fun iterator(): Iterator<Nothing> = EmptyIterator\r\n override fun listIterator(): ListIterator<Nothing> = EmptyIterator\r\n override fun listIterator(index: Int): ListIterator<Nothing> {\r\n if (index != 0) throw IndexOutOfBoundsException(\"Index: $index\")\r\n return EmptyIterator\r\n }\r\n\r\n override fun subList(fromIndex: Int, toIndex: Int): List<Nothing> {\r\n if (fromIndex == 0 && toIndex == 0) return this\r\n throw IndexOutOfBoundsException(\"fromIndex: $fromIndex, toIndex: $toIndex\")\r\n }\r\n\r\n private fun readResolve(): Any = EmptyList\r\n}\r\n\r\ninternal fun <T> Array<out T>.asCollection(): Collection<T> = ArrayAsCollection(this, isVarargs = false)\r\n\r\nprivate class ArrayAsCollection<T>(val values: Array<out T>, val isVarargs: Boolean) : Collection<T> {\r\n override val size: Int get() = values.size\r\n override fun isEmpty(): Boolean = values.isEmpty()\r\n override fun contains(element: T): Boolean = values.contains(element)\r\n override fun containsAll(elements: Collection<T>): Boolean = elements.all { contains(it) }\r\n override fun iterator(): Iterator<T> = values.iterator()\r\n // override hidden toArray implementation to prevent copying of values array\r\n public fun toArray(): Array<out Any?> = values.copyToArrayOfAny(isVarargs)\r\n}\r\n\r\n/**\r\n * Returns an empty read-only list. The returned list is serializable (JVM).\r\n * @sample samples.collections.Collections.Lists.emptyReadOnlyList\r\n */\r\npublic fun <T> emptyList(): List<T> = EmptyList\r\n\r\n/**\r\n * Returns a new read-only list of given elements. The returned list is serializable (JVM).\r\n * @sample samples.collections.Collections.Lists.readOnlyList\r\n */\r\npublic fun <T> listOf(vararg elements: T): List<T> = if (elements.size > 0) elements.asList() else emptyList()\r\n\r\n/**\r\n * Returns an empty read-only list. The returned list is serializable (JVM).\r\n * @sample samples.collections.Collections.Lists.emptyReadOnlyList\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> listOf(): List<T> = emptyList()\r\n\r\n/**\r\n * Returns an empty new [MutableList].\r\n * @sample samples.collections.Collections.Lists.emptyMutableList\r\n */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> mutableListOf(): MutableList<T> = ArrayList()\r\n\r\n/**\r\n * Returns an empty new [ArrayList].\r\n * @sample samples.collections.Collections.Lists.emptyArrayList\r\n */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> arrayListOf(): ArrayList<T> = ArrayList()\r\n\r\n/**\r\n * Returns a new [MutableList] with the given elements.\r\n * @sample

samples.collections.Collections.Lists.mutableList\r\n */\r\npublic fun <T> mutableListOf(vararg elements: T): MutableList<T> =\r\n   if (elements.size == 0) ArrayList() else ArrayList(ArrayAsCollection(elements, isVarargs = true))\r\n\r\n/**\r\n * Returns a new [ArrayList] with the given elements.\r\n * @sample samples.collections.Collections.Lists.arrayList\r\n */\r\npublic fun <T> arrayListOf(vararg elements: T): ArrayList<T> =\r\n   if (elements.size == 0) ArrayList() else ArrayList(ArrayAsCollection(elements, isVarargs = true))\r\n\r\n/**\r\n * Returns a new read-only list either of single given element, if it is not null, or empty list if the element is null. The returned list is serializable (JVM).\r\n * @sample samples.collections.Collections.Lists.listOfNotNull\r\n */\r\npublic fun <T : Any> listOfNotNull(element: T?): List<T> = if (element != null) listOf(element) else emptyList()\r\n\r\n/**\r\n * Returns a new read-only list only of those given elements, that are not null. The returned list is serializable (JVM).\r\n * @sample samples.collections.Collections.Lists.listOfNotNull\r\n */\r\npublic fun <T : Any> listOfNotNull(vararg elements: T?): List<T> = elements.filterNotNull()\r\n\r\n/**\r\n * Creates a new read-only list with the specified [size], where each element is calculated by calling the specified\r\n * [init] function.\r\n *\r\n * The function [init] is called for each list element sequentially starting from the first one.\r\n * It should return the value for a list element given its index.\r\n *\r\n * @sample samples.collections.Collections.Lists.readOnlyListFromInitializer\r\n */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> List(size: Int, init: (index: Int) -> T): List<T> = MutableList(size, init)\r\n\r\n/**\r\n * Creates a new mutable list with the specified [size], where each element is calculated by calling the specified\r\n * [init] function.\r\n *\r\n * The function [init] is called for each list element sequentially starting from the first one.\r\n * It should return the value for a list element given its index.\r\n *\r\n * @sample samples.collections.Collections.Lists.mutableListFromInitializer\r\n */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> MutableList(size: Int, init: (index: Int) -> T): MutableList<T> {\r\n   val list = ArrayList<T>(size)\r\n   repeat(size) { index -> list.add(init(index)) }\r\n   return list\r\n}\r\n\r\n/**\r\n * Returns an [IntRange] of the valid indices for this collection.\r\n * @sample samples.collections.Collections.Collections.indicesOfCollection\r\n */\r\npublic val Collection<*>.indices: IntRange\r\n   get() = 0..size - 1\r\n\r\n/**\r\n * Returns the index of the last item in the list or -1 if the list is empty.\r\n *\r\n * @sample samples.collections.Collections.Lists.lastIndexOfList\r\n */\r\npublic val <T> List<T>.lastIndex: Int\r\n   get() = this.size - 1\r\n\r\n/**\r\n * Returns `true` if the collection is not empty.\r\n * @sample samples.collections.Collections.Collections.collectionIsNotEmpty\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> Collection<T>.isNotEmpty(): Boolean = !isEmpty()\r\n\r\n/**\r\n * Returns `true` if this nullable collection is either null or empty.\r\n * @sample samples.collections.Collections.Collections.collectionIsNullOrEmpty\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> Collection<T>?.isNullOrEmpty(): Boolean {\r\n   contract {\r\n   returns(false) implies (this@isNullOrEmpty != null)\r\n   }\r\n\r\n   return this == null || this.isEmpty()\r\n}\r\n\r\n/**\r\n * Returns this Collection if it's not `null` and the empty list otherwise.\r\n * @sample samples.collections.Collections.Collections.collectionOrEmpty\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> Collection<T>?.orEmpty(): Collection<T> = this ?: emptyList()\r\n\r\n/**\r\n * Returns this List if it's not `null` and the empty list otherwise.\r\n * @sample samples.collections.Collections.Lists.listOrEmpty\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> List<T>?.orEmpty(): List<T> = this ?: emptyList()\r\n\r\n/**\r\n * Returns this collection if it's not empty\r\n * or the result of calling [defaultValue] function if the collection is empty.\r\n *\r\n * @sample samples.collections.Collections.Collections.collectionIfEmpty\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : Collection<*>, C : R =\r\n   if (isEmpty()) defaultValue() else this\r\n\r\n\r\n/**\r\n * Checks if all elements in the specified collection are contained in this collection.\r\n *\r\n * Allows to overcome type-safety restriction of `containsAll` that requires to pass a collection of type `Collection<E>`.\r\n * @sample samples.collections.Collections.Collections.collectionContainsAll\r\n */\r\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\") // false warning, extension takes precedence in some cases\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <@kotlin.internal.OnlyInputTypes T>

Collection<T>.containsAll(elements: Collection<T>): Boolean = this.containsAll(elements)\r\n\r\ninternal fun <T> List<T>.optimizeReadOnlyList() = when (size) {\r\n 0 -> emptyList()\r\n 1 -> listOf(this[0])\r\n else -> this\r\n}\r\n\r\n\r\n/**\r\n * Searches this list or its range for the provided [element] using the binary search algorithm.\r\n * The list is expected to be sorted into ascending order according to the Comparable natural ordering of its elements,\r\n * otherwise the result is undefined.\r\n *\r\n * If the list contains multiple elements equal to the specified [element], there is no guarantee which one will be found.\r\n *\r\n * `null` value is considered to be less than any non-null value.\r\n *\r\n * @return the index of the element, if it is contained in the list within the specified range;\r\n * otherwise, the inverted insertion point `(-insertion point - 1)`.\r\n * The insertion point is defined as the index at which the element should be inserted,\r\n * so that the list (or the specified subrange of list) still remains sorted.\r\n * @sample samples.collections.Collections.Lists.binarySearchOnComparable\r\n * @sample samples.collections.Collections.Lists.binarySearchWithBoundaries\r\n */\r\npublic fun <T : Comparable<T>> List<T?>.binarySearch(element: T?, fromIndex: Int = 0, toIndex: Int = size): Int {\r\n rangeCheck(size, fromIndex, toIndex)\r\n\r\n var low = fromIndex\r\n var high = toIndex - 1\r\n\r\n while (low <= high) {\r\n val mid = (low + high).ushr(1) // safe from overflows\r\n val midVal = get(mid)\r\n val cmp = compareValues(midVal, element)\r\n\r\n if (cmp < 0)\r\n low = mid + 1\r\n else if (cmp > 0)\r\n high = mid - 1\r\n else\r\n return mid // key found\r\n }\r\n return -(low + 1) // key not found\r\n}\r\n\r\n/**\r\n * Searches this list or its range for the provided [element] using the binary search algorithm.\r\n * The list is expected to be sorted into ascending order according to the specified [comparator],\r\n * otherwise the result is undefined.\r\n *\r\n * If the list contains multiple elements equal to the specified [element], there is no guarantee which one will be found.\r\n *\r\n * `null` value is considered to be less than any non-null value.\r\n *\r\n * @return the index of the element, if it is contained in the list within the specified range;\r\n * otherwise, the inverted insertion point `(-insertion point - 1)`.\r\n * The insertion point is defined as the index at which the element should be inserted,\r\n * so that the list (or the specified subrange of list) still remains sorted according to the specified [comparator].\r\n * @sample samples.collections.Collections.Lists.binarySearchWithComparator\r\n */\r\npublic fun <T> List<T>.binarySearch(element: T, comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size): Int {\r\n rangeCheck(size, fromIndex, toIndex)\r\n\r\n var low = fromIndex\r\n var high = toIndex - 1\r\n\r\n while (low <= high) {\r\n val mid = (low + high).ushr(1) // safe from overflows\r\n val midVal = get(mid)\r\n val cmp = comparator.compare(midVal, element)\r\n\r\n if (cmp < 0)\r\n low = mid + 1\r\n else if (cmp > 0)\r\n high = mid - 1\r\n else\r\n return mid // key found\r\n }\r\n return -(low + 1) // key not found\r\n}\r\n\r\n/**\r\n * Searches this list or its range for an element having the key returned by the specified [selector] function\r\n * equal to the provided [key] value using the binary search algorithm.\r\n * The list is expected to be sorted into ascending order according to the Comparable natural ordering of keys of its elements.\r\n * otherwise the result is undefined.\r\n *\r\n * If the list contains multiple elements with the specified [key], there is no guarantee which one will be found.\r\n *\r\n * `null` value is considered to be less than any non-null value.\r\n *\r\n * @return the index of the element with the specified [key], if it is contained in the list within the specified range;\r\n * otherwise, the inverted insertion point `(-insertion point - 1)`.\r\n * The insertion point is defined as the index at which the element should be inserted,\r\n * so that the list (or the specified subrange of list) still remains sorted.\r\n * @sample samples.collections.Collections.Lists.binarySearchByKey\r\n */\r\npublic inline fun <T, K : Comparable<K>> List<T>.binarySearchBy(\r\n key: K?,\r\n fromIndex: Int = 0,\r\n toIndex: Int = size,\r\n crossinline selector: (T) -> K?\r\n): Int =\r\n binarySearch(fromIndex, toIndex) { compareValues(selector(it), key) }\r\n\r\n\r\n// do not introduce this overload --- too rare\r\n//public fun <T, K> List<T>.binarySearchBy(key: K, comparator: Comparator<K>, fromIndex: Int = 0, toIndex: Int = size(), selector: (T) -> K): Int =\r\n// binarySearch(fromIndex, toIndex) { comparator.compare(selector(it), key) }\r\n\r\n\r\n/**\r\n * Searches this list or its range for an element for which [comparison] function returns zero using the binary search algorithm.\r\n * The list is expected to be sorted into ascending order according to the provided [comparison],\r\n * otherwise the result is undefined.\r\n *\r\n * If the list contains multiple elements for which [comparison] returns zero, there is no guarantee which one will be found.\r\n *\r\n * @param comparison function

that compares an element of the list with the element being searched.\r\n *\r\n * @return the index of the found element, if it is contained in the list within the specified range;\r\n * otherwise, the inverted insertion point `(-insertion point - 1)`.\r\n * The insertion point is defined as the index at which the element should be inserted,\r\n * so that the list (or the specified subrange of list) still remains sorted.\r\n * @sample samples.collections.Collections.Lists.binarySearchWithComparisonFunction\r\n */\r\npublic fun <T> List<T>.binarySearch(fromIndex: Int = 0, toIndex: Int = size, comparison: (T) -> Int): Int {\r\n rangeCheck(size, fromIndex, toIndex)\r\n\r\n var low = fromIndex\r\n var high = toIndex - 1\r\n\r\n while (low <= high) {\r\n val mid = (low + high).ushr(1) // safe from overflows\r\n val midVal = get(mid)\r\n val cmp = comparison(midVal)\r\n\r\n if (cmp < 0)\r\n low = mid + 1\r\n else if (cmp > 0)\r\n high = mid - 1\r\n else\r\n return mid // key found\r\n }\r\n return -(low + 1) // key not found\r\n}\r\n\r\n/**\r\n * Checks that `from` and `to` are in\r\n * the range of [0..size] and throws an appropriate exception, if they aren't.\r\n */\r\nprivate fun rangeCheck(size: Int, fromIndex: Int, toIndex: Int) {\r\n when {\r\n fromIndex > toIndex -> throw IllegalArgumentException(\"fromIndex ($fromIndex) is greater than toIndex ($toIndex).\")\r\n fromIndex < 0 -> throw IndexOutOfBoundsException(\"fromIndex ($fromIndex) is less than zero.\")\r\n toIndex > size -> throw IndexOutOfBoundsException(\"toIndex ($toIndex) is greater than size ($size).\")\r\n }\r\n}\r\n\r\n\r\n@PublishedApi\r\n@SinceKotlin(\"1.3\")\r\ninternal expect fun checkIndexOverflow(index: Int): Int\r\n\r\n@PublishedApi\r\n@SinceKotlin(\"1.3\")\r\ninternal expect fun checkCountOverflow(count: Int): Int\r\n\r\n\r\n@PublishedApi\r\n@SinceKotlin(\"1.3\")\r\ninternal fun throwIndexOverflow() { throw ArithmeticException(\"Index overflow has happened.\") }\r\n\r\n@PublishedApi\r\n@SinceKotlin(\"1.3\")\r\ninternal fun throwCountOverflow() { throw ArithmeticException(\"Count overflow has happened.\") }\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"MapsKt\")\r\n\r\npackage kotlin.collections\r\n\r\nimport kotlin.contracts.*\r\n\r\nprivate object EmptyMap : Map<Any?, Nothing>, Serializable {\r\n private const val serialVersionUID: Long = 8246714829545688274\r\n\r\n override fun equals(other: Any?): Boolean = other is Map<*, *> && other.isEmpty()\r\n override fun hashCode(): Int = 0\r\n override fun toString(): String = \"{}\"\r\n\r\n override val size: Int get() = 0\r\n override fun isEmpty(): Boolean = true\r\n\r\n override fun containsKey(key: Any?): Boolean = false\r\n override fun containsValue(value: Nothing): Boolean = false\r\n override fun get(key: Any?): Nothing? = null\r\n override val entries: Set<Map.Entry<Any?, Nothing>> get() = EmptySet\r\n override val keys: Set<Any?> get() = EmptySet\r\n override val values: Collection<Nothing> get() = EmptyList\r\n\r\n private fun readResolve(): Any = EmptyMap\r\n}\r\n\r\n/**\r\n * Returns an empty read-only map of specified type.\r\n *\r\n * The returned map is serializable (JVM).\r\n * @sample samples.collections.Maps.Instantiation.emptyReadOnlyMap\r\n */\r\npublic fun <K, V> emptyMap(): Map<K, V> = @Suppress(\"UNCHECKED_CAST\") (EmptyMap as Map<K, V>)\r\n\r\n/**\r\n * Returns a new read-only map with the specified contents, given as a list of pairs\r\n * where the first value is the key and the second is the value.\r\n *\r\n * If multiple pairs have the same key, the resulting map will contain the value from the last of those pairs.\r\n *\r\n * Entries of the map are iterated in the order they were specified.\r\n *\r\n * The returned map is serializable (JVM).\r\n *\r\n * @sample samples.collections.Maps.Instantiation.mapFromPairs\r\n */\r\npublic fun <K, V> mapOf(vararg pairs: Pair<K, V>): Map<K, V> =\r\n if (pairs.size > 0) pairs.toMap(LinkedHashMap(mapCapacity(pairs.size))) else emptyMap()\r\n\r\n\r\n/**\r\n * Returns an empty read-only map.\r\n *\r\n * The returned map is serializable (JVM).\r\n * @sample samples.collections.Maps.Instantiation.emptyReadOnlyMap\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <K, V> mapOf(): Map<K, V> = emptyMap()\r\n\r\n\r\n/**\r\n * Returns an empty new [MutableMap].\r\n *\r\n * The returned map preserves the entry iteration order.\r\n * @sample samples.collections.Maps.Instantiation.emptyMutableMap\r\n */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <K, V> mutableMapOf(): MutableMap<K, V> = LinkedHashMap()\r\n\r\n\r\n/**\r\n * Returns a new [MutableMap] with the specified contents,

given as a list of pairs\r\n * where the first component is the key and the second is the value.\r\n *\r\n * If multiple pairs have the same key, the resulting map will contain the value from the last of those pairs.\r\n *\r\n * Entries of the map are iterated in the order they were specified.\r\n *\r\n * @sample samples.collections.Maps.Instantiation.mutableMapFromPairs\r\n * @sample samples.collections.Maps.Instantiation.emptyMutableMap\r\n */\r\npublic fun <K, V> mutableMapOf(vararg pairs: Pair<K, V>): MutableMap<K, V> =\r\n   LinkedHashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs) }\r\n\r\n/**\r\n * Returns an empty new [HashMap].\r\n */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <K, V> hashMapOf(): HashMap<K, V> = HashMap<K, V>()\r\n\r\n/**\r\n * Returns a new [HashMap] with the specified contents, given as a list of pairs\r\n * where the first component is the key and the second is the value.\r\n *\r\n * @sample samples.collections.Maps.Instantiation.hashMapFromPairs\r\n */\r\npublic fun <K, V> hashMapOf(vararg pairs: Pair<K, V>): HashMap<K, V> = HashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs) }\r\n\r\n/**\r\n * Returns an empty new [LinkedHashMap].\r\n */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <K, V> linkedMapOf(): LinkedHashMap<K, V> = LinkedHashMap<K, V>()\r\n\r\n/**\r\n * Returns a new [LinkedHashMap] with the specified contents, given as a list of pairs\r\n * where the first component is the key and the second is the value.\r\n *\r\n * If multiple pairs have the same key, the resulting map will contain the value from the last of those pairs.\r\n *\r\n * Entries of the map are iterated in the order they were specified.\r\n *\r\n * @sample samples.collections.Maps.Instantiation.linkedMapFromPairs\r\n */\r\npublic fun <K, V> linkedMapOf(vararg pairs: Pair<K, V>): LinkedHashMap<K, V> = pairs.toMap(LinkedHashMap(mapCapacity(pairs.size)))\r\n\r\n/**\r\n * Calculate the initial capacity of a map, based on Guava's com.google.common.collect.Maps approach. This is equivalent\r\n * to the Collection constructor for HashSet, (c.size()/.75f) + 1, but provides further optimisations for very small or\r\n * very large sizes, allows support non-collection classes, and provides consistency for all map based class construction.\r\n */\r\n@PublishedApi\r\ninternal fun mapCapacity(expectedSize: Int): Int {\r\n   if (expectedSize < 3) {\r\n   return expectedSize + 1\r\n   }\r\n   if (expectedSize < INT_MAX_POWER_OF_TWO) {\r\n   return expectedSize + expectedSize / 3\r\n   }\r\n   return Int.MAX_VALUE // any large value\r\n}\r\n\r\nprivate const val INT_MAX_POWER_OF_TWO: Int = Int.MAX_VALUE / 2 + 1\r\n\r\n/** Returns `true` if this map is not empty. */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <K, V> Map<out K, V>.isNotEmpty(): Boolean = !isEmpty()\r\n\r\n/**\r\n * Returns `true` if this nullable map is either null or empty.\r\n * @sample samples.collections.Maps.Usage.mapIsNullOrEmpty\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <K, V> Map<out K, V>?.isNullOrEmpty(): Boolean {\r\n   contract {\r\n   returns(false) implies (this@isNullOrEmpty != null)\r\n   }\r\n\r\n   return this == null || isEmpty()\r\n}\r\n\r\n/**\r\n * Returns the [Map] if its not `null`, or the empty [Map] otherwise.\r\n *\r\n * @sample samples.collections.Maps.Usage.mapOrEmpty\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <K, V> Map<K, V>?.orEmpty(): Map<K, V> = this ?: emptyMap()\r\n\r\n/**\r\n * Returns this map if it's not empty\r\n * or the result of calling [defaultValue] function if the map is empty.\r\n *\r\n * @sample samples.collections.Maps.Usage.mapIfEmpty\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <M, R> M.ifEmpty(defaultValue: () -> R): R where M : Map<*, *>, M : R =\r\n   if (isEmpty()) defaultValue() else this\r\n\r\n/**\r\n * Checks if the map contains the given key.\r\n *\r\n * This method allows to use the `x in map` syntax for checking whether an object is contained in the map.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <@kotlin.internal.OnlyInputTypes K, V> Map<out K, V>.contains(key: K): Boolean = containsKey(key)\r\n\r\n/**\r\n * Returns the value corresponding to the given [key], or `null` if such a key is not present in the map.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <@kotlin.internal.OnlyInputTypes K, V> Map<out K, V>.get(key: K): V? =\r\n   @Suppress(\"UNCHECKED_CAST\") (this as Map<K, V>).get(key)\r\n\r\n/**\r\n * Allows to use the index operator for storing values in a mutable map.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <K, V> MutableMap<K, V>.set(key: K, value: V): Unit {\r\n   put(key, value)\r\n}\r\n\r\n/**\r\n * Returns `true` if the

map contains the specified [key].\r\n *\r\n * Allows to overcome type-safety restriction of `containsKey` that requires to pass a key of type `K`.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <@kotlin.internal.OnlyInputTypes K> Map<out K, *>.containsKey(key: K): Boolean =\r\n @Suppress(\"UNCHECKED_CAST\") (this as Map<K, *>).containsKey(key)\r\n\r\n/**\r\n * Returns `true` if the map maps one or more keys to the specified [value].\r\n *\r\n * Allows to overcome type-safety restriction of `containsValue` that requires to pass a value of type `V`.\r\n *\r\n * @sample samples.collections.Maps.Usage.containsValue\r\n */\r\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\") // false warning, extension takes precedence in some cases\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <K, @kotlin.internal.OnlyInputTypes V> Map<K, V>.containsValue(value: V): Boolean = this.containsValue(value)\r\n\r\n\r\n/**\r\n * Removes the specified key and its corresponding value from this map.\r\n *\r\n * @return the previous value associated with the key, or `null` if the key was not present in the map.\r\n\r\n * Allows to overcome type-safety restriction of `remove` that requires to pass a key of type `K`.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <@kotlin.internal.OnlyInputTypes K, V> MutableMap<out K, V>.remove(key: K): V? =\r\n @Suppress(\"UNCHECKED_CAST\") (this as MutableMap<K, V>).remove(key)\r\n\r\n/**\r\n * Returns the key component of the map entry.\r\n *\r\n * This method allows to use destructuring declarations when working with maps, for example:\r\n * ```\r\n * for ((key, value) in map) {\r\n * // do something with the key and the value\r\n * }\r\n * ```\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <K, V> Map.Entry<K, V>.component1(): K = key\r\n\r\n/**\r\n * Returns the value component of the map entry.\r\n *\r\n * This method allows to use destructuring declarations when working with maps, for example:\r\n * ```\r\n * for ((key, value) in map) {\r\n * // do something with the key and the value\r\n * }\r\n * ```\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <K, V> Map.Entry<K, V>.component2(): V = value\r\n\r\n/**\r\n * Converts entry to [Pair] with key being first component and value being second.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <K, V> Map.Entry<K, V>.toPair(): Pair<K, V> = Pair(key, value)\r\n\r\n/**\r\n * Returns the value for the given key, or the result of the [defaultValue] function if there was no entry for the given key.\r\n *\r\n * @sample samples.collections.Maps.Usage.getOrElse\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <K, V> Map<K, V>.getOrElse(key: K, defaultValue: () -> V): V = get(key) ?: defaultValue()\r\n\r\n\r\n\r\ninternal inline fun <K, V> Map<K, V>.getOrElseNullable(key: K, defaultValue: () -> V): V {\r\n val value = get(key)\r\n if (value == null && !containsKey(key)) {\r\n return defaultValue()\r\n } else {\r\n @Suppress(\"UNCHECKED_CAST\")\r\n return value as V\r\n }\r\n}\r\n\r\n/**\r\n * Returns the value for the given [key] or throws an exception if there is no such key in the map.\r\n *\r\n * If the map was created by [withDefault], resorts to its `defaultValue` provider function\r\n * instead of throwing an exception.\r\n *\r\n * @throws NoSuchElementException when the map doesn't contain a value for the specified key and\r\n * no implicit default value was provided for that map.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic fun <K, V> Map<K, V>.getValue(key: K): V = getOrImplicitDefault(key)\r\n\r\n/**\r\n * Returns the value for the given key. If the key is not found in the map, calls the [defaultValue] function,\r\n * puts its result into the map under the given key and returns it.\r\n *\r\n * Note that the operation is not guaranteed to be atomic if the map is being modified concurrently.\r\n *\r\n * @sample samples.collections.Maps.Usage.getOrPut\r\n */\r\npublic inline fun <K, V> MutableMap<K, V>.getOrPut(key: K, defaultValue: () -> V): V {\r\n val value = get(key)\r\n return if (value == null) {\r\n val answer = defaultValue()\r\n put(key, answer)\r\n answer\r\n } else {\r\n value\r\n }\r\n}\r\n\r\n/**\r\n * Returns an [Iterator] over the entries in the [Map].\r\n *\r\n * @sample samples.collections.Maps.Usage.forOverEntries\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <K, V> Map<out K, V>.iterator(): Iterator<Map.Entry<K, V>> = entries.iterator()\r\n\r\n/**\r\n * Returns a [MutableIterator] over the mutable entries in the [MutableMap].\r\n *\r\n */\r\n@kotlin.jvm.JvmName(\"mutableIterator\")\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <K, V> MutableMap<K, V>.iterator(): MutableIterator<MutableMap.MutableEntry<K, V>> = entries.iterator()\r\n\r\n/**\r\n * Populates the given [destination] map with entries having the keys of this map and the values obtained\r\n * by applying the [transform] function to each entry in this [Map].\r\n */\r\npublic inline fun

<K, V, R, M : MutableMap<in K, in R>> Map<out K, V>.mapValuesTo(destination: M, transform: (Map.Entry<K, V>) -> R): M {\r\n return entries.associateByTo(destination, { it.key }, transform)\r\n}\r\n\r\n/**\r\n * Populates the given [destination] map with entries having the keys obtained\r\n * by applying the [transform] function to each entry in this [Map] and the values of this map.\r\n *\r\n * In case if any two entries are mapped to the equal keys, the value of the latter one will overwrite\r\n * the value associated with the former one.\r\n */\r\npublic inline fun <K, V, R, M : MutableMap<in R, in V>> Map<out K, V>.mapKeysTo(destination: M, transform: (Map.Entry<K, V>) -> R): M {\r\n return entries.associateByTo(destination, transform, { it.value })\r\n}\r\n\r\n/**\r\n * Puts all the given [pairs] into this [MutableMap] with the first component in the pair being the key and the second the value.\r\n */\r\npublic fun <K, V> MutableMap<in K, in V>.putAll(pairs: Array<out Pair<K, V>>): Unit {\r\n for ((key, value) in pairs) {\r\n put(key, value)\r\n }\r\n}\r\n\r\n/**\r\n * Puts all the elements of the given collection into this [MutableMap] with the first component in the pair being the key and the second the value.\r\n */\r\npublic fun <K, V> MutableMap<in K, in V>.putAll(pairs: Iterable<Pair<K, V>>): Unit {\r\n for ((key, value) in pairs) {\r\n put(key, value)\r\n }\r\n}\r\n\r\n/**\r\n * Puts all the elements of the given sequence into this [MutableMap] with the first component in the pair being the key and the second the value.\r\n */\r\npublic fun <K, V> MutableMap<in K, in V>.putAll(pairs: Sequence<Pair<K, V>>): Unit {\r\n for ((key, value) in pairs) {\r\n put(key, value)\r\n }\r\n}\r\n\r\n/**\r\n * Returns a new map with entries having the keys of this map and the values obtained by applying the [transform]\r\n * function to each entry in this [Map].\r\n *\r\n * The returned map preserves the entry iteration order of the original map.\r\n *\r\n * @sample samples.collections.Maps.Transformations.mapValues\r\n */\r\npublic inline fun <K, V, R> Map<out K, V>.mapValues(transform: (Map.Entry<K, V>) -> R): Map<K, R> {\r\n return mapValuesTo(LinkedHashMap<K, R>(mapCapacity(size)), transform) // .optimizeReadOnlyMap()\r\n}\r\n\r\n/**\r\n * Returns a new Map with entries having the keys obtained by applying the [transform] function to each entry in this\r\n * [Map] and the values of this map.\r\n *\r\n * In case if any two entries are mapped to the equal keys, the value of the latter one will overwrite\r\n * the value associated with the former one.\r\n *\r\n * The returned map preserves the entry iteration order of the original map.\r\n *\r\n * @sample samples.collections.Maps.Transformations.mapKeys\r\n */\r\npublic inline fun <K, V, R> Map<out K, V>.mapKeys(transform: (Map.Entry<K, V>) -> R): Map<R, V> {\r\n return mapKeysTo(LinkedHashMap<R, V>(mapCapacity(size)), transform) // .optimizeReadOnlyMap()\r\n}\r\n\r\n/**\r\n * Returns a map containing all key-value pairs with keys matching the given [predicate].\r\n *\r\n * The returned map preserves the entry iteration order of the original map.\r\n * @sample samples.collections.Maps.Filtering.filterKeys\r\n */\r\npublic inline fun <K, V> Map<out K, V>.filterKeys(predicate: (K) -> Boolean): Map<K, V> {\r\n val result = LinkedHashMap<K, V>()\r\n for (entry in this) {\r\n if (predicate(entry.key)) {\r\n result.put(entry.key, entry.value)\r\n }\r\n }\r\n return result\r\n}\r\n\r\n/**\r\n * Returns a map containing all key-value pairs with values matching the given [predicate].\r\n *\r\n * The returned map preserves the entry iteration order of the original map.\r\n * @sample samples.collections.Maps.Filtering.filterValues\r\n */\r\npublic inline fun <K, V> Map<out K, V>.filterValues(predicate: (V) -> Boolean): Map<K, V> {\r\n val result = LinkedHashMap<K, V>()\r\n for (entry in this) {\r\n if (predicate(entry.value)) {\r\n result.put(entry.key, entry.value)\r\n }\r\n }\r\n return result\r\n}\r\n\r\n/**\r\n * Appends all entries matching the given [predicate] into the mutable map given as [destination] parameter.\r\n *\r\n * @return the destination map.\r\n * @sample samples.collections.Maps.Filtering.filterTo\r\n */\r\npublic inline fun <K, V, M : MutableMap<in K, in V>> Map<out K, V>.filterTo(destination: M, predicate: (Map.Entry<K, V>) -> Boolean): M {\r\n for (element in this) {\r\n if (predicate(element)) {\r\n destination.put(element.key, element.value)\r\n }\r\n }\r\n return destination\r\n}\r\n\r\n/**\r\n * Returns a new map containing all key-value pairs matching the given [predicate].\r\n *\r\n * The returned map preserves the entry iteration order of the original map.\r\n * @sample samples.collections.Maps.Filtering.filter\r\n */\r\npublic inline fun <K, V> Map<out K, V>.filter(predicate: (Map.Entry<K, V>) -> Boolean): Map<K, V> {\r\n return filterTo(LinkedHashMap<K, V>(), predicate)\r\n}\r\n\r\n/**\r\n * Appends all entries not matching the given [predicate] into the given [destination].\r\n *\r\n * @return the destination map.\r\n * @sample samples.collections.Maps.Filtering.filterNotTo\r\n */\r\npublic inline fun <K, V, M : MutableMap<in K, in V>> Map<out K, V>.filterNotTo(destination: M, predicate:

(Map.Entry<K, V>) -> Boolean): M {\r\n for (element in this) {\r\n if (!predicate(element)) {\r\n destination.put(element.key, element.value)\r\n }\r\n }\r\n return destination\r\n}\r\n\r\n/**\r\n * Returns a new map containing all key-value pairs not matching the given [predicate].\r\n *\r\n * The returned map preserves the entry iteration order of the original map.\r\n * @sample samples.collections.Maps.Filtering.filterNot\r\n */\r\npublic inline fun <K, V> Map<out K, V>.filterNot(predicate: (Map.Entry<K, V>) -> Boolean): Map<K, V> {\r\n return filterNotTo(LinkedHashMap<K, V>(), predicate)\r\n}\r\n\r\n/**\r\n * Returns a new map containing all key-value pairs from the given collection of pairs.\r\n *\r\n * The returned map preserves the entry iteration order of the original collection.\r\n * If any of two pairs would have the same key the last one gets added to the map.\r\n */\r\npublic fun <K, V> Iterable<Pair<K, V>>.toMap(): Map<K, V> {\r\n if (this is Collection) {\r\n return when (size) {\r\n 0 -> emptyMap()\r\n 1 -> mapOf(if (this is List) this[0] else iterator().next())\r\n else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))\r\n }\r\n }\r\n return toMap(LinkedHashMap<K, V>()).optimizeReadOnlyMap()\r\n}\r\n\r\n/**\r\n * Populates and returns the [destination] mutable map with key-value pairs from the given collection of pairs.\r\n */\r\npublic fun <K, V, M : MutableMap<in K, in V>> Iterable<Pair<K, V>>.toMap(destination: M): M =\r\n destination.apply { putAll(this@toMap) }\r\n\r\n/**\r\n * Returns a new map containing all key-value pairs from the given array of pairs.\r\n *\r\n * The returned map preserves the entry iteration order of the original array.\r\n * If any of two pairs would have the same key the last one gets added to the map.\r\n */\r\npublic fun <K, V> Array<out Pair<K, V>>.toMap(): Map<K, V> = when (size) {\r\n 0 -> emptyMap()\r\n 1 -> mapOf(this[0])\r\n else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))\r\n}\r\n\r\n/**\r\n * Populates and returns the [destination] mutable map with key-value pairs from the given array of pairs.\r\n */\r\npublic fun <K, V, M : MutableMap<in K, in V>> Array<out Pair<K, V>>.toMap(destination: M): M =\r\n destination.apply { putAll(this@toMap) }\r\n\r\n/**\r\n * Returns a new map containing all key-value pairs from the given sequence of pairs.\r\n *\r\n * The returned map preserves the entry iteration order of the original sequence.\r\n * If any of two pairs would have the same key the last one gets added to the map.\r\n */\r\npublic fun <K, V> Sequence<Pair<K, V>>.toMap(): Map<K, V> = toMap(LinkedHashMap<K, V>()).optimizeReadOnlyMap()\r\n\r\n/**\r\n * Populates and returns the [destination] mutable map with key-value pairs from the given sequence of pairs.\r\n */\r\npublic fun <K, V, M : MutableMap<in K, in V>> Sequence<Pair<K, V>>.toMap(destination: M): M =\r\n destination.apply { putAll(this@toMap) }\r\n\r\n/**\r\n * Returns a new read-only map containing all key-value pairs from the original map.\r\n *\r\n * The returned map preserves the entry iteration order of the original map.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic fun <K, V> Map<out K, V>.toMap(): Map<K, V> = when (size) {\r\n 0 -> emptyMap()\r\n 1 -> toSingletonMap()\r\n else -> toMutableMap()\r\n}\r\n\r\n/**\r\n * Returns a new mutable map containing all key-value pairs from the original map.\r\n *\r\n * The returned map preserves the entry iteration order of the original map.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic fun <K, V> Map<out K, V>.toMutableMap(): MutableMap<K, V> = LinkedHashMap(this)\r\n\r\n/**\r\n * Populates and returns the [destination] mutable map with key-value pairs from the given map.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic fun <K, V, M : MutableMap<in K, in V>> Map<out K, V>.toMap(destination: M): M =\r\n destination.apply { putAll(this@toMap) }\r\n\r\n/**\r\n * Creates a new read-only map by replacing or adding an entry to this map from a given key-value [pair].\r\n *\r\n * The returned map preserves the entry iteration order of the original map.\r\n * The [pair] is iterated in the end if it has a unique key.\r\n */\r\npublic operator fun <K, V> Map<out K, V>.plus(pair: Pair<K, V>): Map<K, V> =\r\n if (this.isEmpty()) mapOf(pair) else LinkedHashMap(this).apply { put(pair.first, pair.second) }\r\n\r\n/**\r\n * Creates a new read-only map by replacing or adding entries to this map from a given collection of key-value [pairs].\r\n *\r\n * The returned map preserves the entry iteration order of the original map.\r\n * Those [pairs] with unique keys are iterated in the end in the order of [pairs] collection.\r\n */\r\npublic operator fun <K, V> Map<out K, V>.plus(pairs: Iterable<Pair<K, V>>): Map<K, V> =\r\n if (this.isEmpty()) pairs.toMap() else LinkedHashMap(this).apply { putAll(pairs) }\r\n\r\n/**\r\n * Creates a new read-only map by replacing or adding entries to this map from a given array of key-value [pairs].\r\n *\r\n * The returned map preserves the entry iteration order of the original map.\r\n * Those [pairs] with unique keys are iterated in the end in the order of [pairs] array.\r\n */\r\npublic operator fun <K, V> Map<out K, V>.plus(pairs: Array<out Pair<K, V>>): Map<K, V> =\r\n if

(this.isEmpty()) pairs.toMap() else LinkedHashMap(this).apply { putAll(pairs) }\r\n\r\n/**\r\n * Creates a new read-only map by replacing or adding entries to this map from a given sequence of key-value [pairs].\r\n *\r\n * The returned map preserves the entry iteration order of the original map.\r\n * Those [pairs] with unique keys are iterated in the end in the order of [pairs] sequence.\r\n */\r\npublic operator fun <K, V> Map<out K, V>.plus(pairs: Sequence<Pair<K, V>>): Map<K, V> =\r\n   LinkedHashMap(this).apply { putAll(pairs) }.optimizeReadOnlyMap()\r\n\r\n/**\r\n * Creates a new read-only map by replacing or adding entries to this map from another [map].\r\n *\r\n * The returned map preserves the entry iteration order of the original map.\r\n * Those entries of another [map] that are missing in this map are iterated in the end in the order of that [map].\r\n */\r\npublic operator fun <K, V> Map<out K, V>.plus(map: Map<out K, V>): Map<K, V> =\r\n   LinkedHashMap(this).apply { putAll(map) }\r\n\r\n\r\n/**\r\n * Appends or replaces the given [pair] in this mutable map.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pair: Pair<K, V>) {\r\n   put(pair.first, pair.second)\r\n}\r\n\r\n/**\r\n * Appends or replaces all pairs from the given collection of [pairs] in this mutable map.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Iterable<Pair<K, V>>) {\r\n   putAll(pairs)\r\n}\r\n\r\n/**\r\n * Appends or replaces all pairs from the given array of [pairs] in this mutable map.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Array<out Pair<K, V>>) {\r\n   putAll(pairs)\r\n}\r\n\r\n/**\r\n * Appends or replaces all pairs from the given sequence of [pairs] in this mutable map.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Sequence<Pair<K, V>>) {\r\n   putAll(pairs)\r\n}\r\n\r\n/**\r\n * Appends or replaces all entries from the given [map] in this mutable map.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(map: Map<K, V>) {\r\n   putAll(map)\r\n}\r\n\r\n/**\r\n * Returns a map containing all entries of the original map except the entry with the given [key].\r\n *\r\n * The returned map preserves the entry iteration order of the original map.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic operator fun <K, V> Map<out K, V>.minus(key: K): Map<K, V> =\r\n   this.toMutableMap().apply { minusAssign(key) }.optimizeReadOnlyMap()\r\n\r\n/**\r\n * Returns a map containing all entries of the original map except those entries\r\n * the keys of which are contained in the given [keys] collection.\r\n *\r\n * The returned map preserves the entry iteration order of the original map.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic operator fun <K, V> Map<out K, V>.minus(keys: Iterable<K>): Map<K, V> =\r\n   this.toMutableMap().apply { minusAssign(keys) }.optimizeReadOnlyMap()\r\n\r\n/**\r\n * Returns a map containing all entries of the original map except those entries\r\n * the keys of which are contained in the given [keys] array.\r\n *\r\n * The returned map preserves the entry iteration order of the original map.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic operator fun <K, V> Map<out K, V>.minus(keys: Array<out K>): Map<K, V> =\r\n   this.toMutableMap().apply { minusAssign(keys) }.optimizeReadOnlyMap()\r\n\r\n/**\r\n * Returns a map containing all entries of the original map except those entries\r\n * the keys of which are contained in the given [keys] sequence.\r\n *\r\n * The returned map preserves the entry iteration order of the original map.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic operator fun <K, V> Map<out K, V>.minus(keys: Sequence<K>): Map<K, V> =\r\n   this.toMutableMap().apply { minusAssign(keys) }.optimizeReadOnlyMap()\r\n\r\n/**\r\n * Removes the entry with the given [key] from this mutable map.\r\n */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <K, V> MutableMap<K, V>.minusAssign(key: K) {\r\n   remove(key)\r\n}\r\n\r\n/**\r\n * Removes all entries the keys of which are contained in the given [keys] collection from this mutable map.\r\n */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <K, V> MutableMap<K, V>.minusAssign(keys: Iterable<K>) {\r\n   this.keys.removeAll(keys)\r\n}\r\n\r\n/**\r\n * Removes all entries the keys of which are contained in the given [keys] array from this mutable map.\r\n */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <K, V> MutableMap<K, V>.minusAssign(keys: Array<out K>) {\r\n   this.keys.removeAll(keys)\r\n}\r\n\r\n/**\r\n * Removes all entries from the keys of which are contained in the given [keys] sequence from this mutable map.\r\n */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <K, V> MutableMap<K,

V>.minusAssign(keys: Sequence<K>) {\r\n   this.keys.removeAll(keys)\r\n}\r\n\r\n\r\n\r\n// do not expose for now @PublishedApi\r\ninternal fun <K, V> Map<K, V>.optimizeReadOnlyMap() = when (size) {\r\n   0 -> emptyMap()\r\n   1 -> toSingletonMapOrSelf()\r\n   else -> this\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"SetsKt\")\r\n\r\npackage kotlin.collections\r\n\r\n\r\n\r\ninternal object EmptySet : Set<Nothing>, Serializable {\r\n   private const val serialVersionUID: Long = 3406603774387020532\r\n\r\n   override fun equals(other: Any?): Boolean = other is Set<*> && other.isEmpty()\r\n   override fun hashCode(): Int = 0\r\n   override fun toString(): String = \"[]\"\r\n\r\n   override val size: Int get() = 0\r\n   override fun isEmpty(): Boolean = true\r\n   override fun contains(element: Nothing): Boolean = false\r\n   override fun containsAll(elements: Collection<Nothing>): Boolean = elements.isEmpty()\r\n\r\n   override fun iterator(): Iterator<Nothing> = EmptyIterator\r\n\r\n   private fun readResolve(): Any = EmptySet\r\n}\r\n\r\n\r\n\r\n/**\r\n * Returns an empty read-only set. The returned set is serializable (JVM).\r\n * @sample samples.collections.Collections.Sets.emptyReadOnlySet\r\n */\r\npublic fun <T> emptySet(): Set<T> = EmptySet\r\n\r\n/**\r\n * Returns a new read-only set with the given elements.\r\n * Elements of the set are iterated in the order they were specified.\r\n * The returned set is serializable (JVM).\r\n * @sample samples.collections.Collections.Sets.readOnlySet\r\n */\r\npublic fun <T> setOf(vararg elements: T): Set<T> = if (elements.size > 0) elements.toSet() else emptySet()\r\n\r\n\r\n/**\r\n * Returns an empty read-only set. The returned set is serializable (JVM).\r\n * @sample samples.collections.Collections.Sets.emptyReadOnlySet\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> setOf(): Set<T> = emptySet()\r\n\r\n\r\n/**\r\n * Returns an empty new [MutableSet].\r\n *\r\n * The returned set preserves the element iteration order.\r\n * @sample samples.collections.Collections.Sets.emptyMutableSet\r\n */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> mutableSetOf(): MutableSet<T> = LinkedHashSet()\r\n\r\n\r\n/**\r\n * Returns a new [MutableSet] with the given elements.\r\n * Elements of the set are iterated in the order they were specified.\r\n * @sample samples.collections.Collections.Sets.mutableSet\r\n */\r\npublic fun <T> mutableSetOf(vararg elements: T): MutableSet<T> = elements.toCollection(LinkedHashSet(mapCapacity(elements.size)))\r\n\r\n\r\n/** Returns an empty new [HashSet]. */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> hashSetOf(): HashSet<T> = HashSet()\r\n\r\n\r\n/** Returns a new [HashSet] with the given elements. */\r\npublic fun <T> hashSetOf(vararg elements: T): HashSet<T> = elements.toCollection(HashSet(mapCapacity(elements.size)))\r\n\r\n\r\n/** Returns an empty new [LinkedHashSet]. */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> linkedSetOf(): LinkedHashSet<T> = LinkedHashSet()\r\n\r\n\r\n/**\r\n * Returns a new [LinkedHashSet] with the given elements.\r\n * Elements of the set are iterated in the order they were specified.\r\n */\r\npublic fun <T> linkedSetOf(vararg elements: T): LinkedHashSet<T> = elements.toCollection(LinkedHashSet(mapCapacity(elements.size)))\r\n\r\n\r\n/** Returns this Set if it's not `null` and the empty set otherwise. */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> Set<T>?.orEmpty(): Set<T> = this ?: emptySet()\r\n\r\n\r\ninternal fun <T> Set<T>.optimizeReadOnlySet() = when (size) {\r\n   0 -> emptySet()\r\n   1 -> setOf(iterator().next())\r\n   else -> this\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"StringsKt\")\r\n@file:Suppress(\"PLATFORM_CLASS_MAPPED_TO_KOTLIN\")\r\n\r\n\r\npackage kotlin.text\r\n\r\n\r\n/**\r\n * Parses the string as a signed [Byte] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic fun String.toByteOrNull(): Byte? = toByteOrNull(radix = 10)\r\n\r\n\r\n/**\r\n * Parses the string as a signed [Byte] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n *\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic fun String.toByteOrNull(radix: Int): Byte? {\r\n   val int = this.toIntOrNull(radix) ?: return null\r\n   if (int < Byte.MIN_VALUE || int > Byte.MAX_VALUE)

return null\r\n   return int.toByte()\r\n}\r\n\r\n/**\r\n * Parses the string as a [Short] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic fun String.toShortOrNull(): Short? = toShortOrNull(radix = 10)\r\n\r\n/**\r\n * Parses the string as a [Short] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n *\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic fun String.toShortOrNull(radix: Int): Short? {\r\n   val int = this.toIntOrNull(radix) ?: return null\r\n   if (int < Short.MIN_VALUE || int > Short.MAX_VALUE) return null\r\n   return int.toShort()\r\n}\r\n\r\n/**\r\n * Parses the string as an [Int] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic fun String.toIntOrNull(): Int? = toIntOrNull(radix = 10)\r\n\r\n/**\r\n * Parses the string as an [Int] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n *\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic fun String.toIntOrNull(radix: Int): Int? {\r\n   checkRadix(radix)\r\n\r\n   val length = this.length\r\n   if (length == 0) return null\r\n\r\n   val start: Int\r\n   val isNegative: Boolean\r\n   val limit: Int\r\n\r\n   val firstChar = this[0]\r\n   if (firstChar < '0') { // Possible leading sign\r\n   if (length == 1) return null // non-digit (possible sign) only, no digits after\r\n\r\n   start = 1\r\n\r\n   if (firstChar == '-') {\r\n   isNegative = true\r\n   limit = Int.MIN_VALUE\r\n   } else if (firstChar == '+') {\r\n   isNegative = false\r\n   limit = -Int.MAX_VALUE\r\n   } else\r\n   return null\r\n   } else {\r\n   start = 0\r\n   isNegative = false\r\n   limit = -Int.MAX_VALUE\r\n   }\r\n\r\n\r\n   val limitBeforeMul = limit / radix\r\n   var result = 0\r\n   for (i in start..(length - 1)) {\r\n   val digit = digitOf(this[i], radix)\r\n\r\n   if (digit < 0) return null\r\n   if (result < limitBeforeMul) return null\r\n\r\n   result *= radix\r\n\r\n   if (result < limit + digit) return null\r\n\r\n   result -= digit\r\n   }\r\n\r\n   return if (isNegative) result else -result\r\n}\r\n\r\n/**\r\n * Parses the string as a [Long] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic fun String.toLongOrNull(): Long? = toLongOrNull(radix = 10)\r\n\r\n/**\r\n * Parses the string as a [Long] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n *\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic fun String.toLongOrNull(radix: Int): Long? {\r\n   checkRadix(radix)\r\n\r\n   val length = this.length\r\n   if (length == 0) return null\r\n\r\n   val start: Int\r\n   val isNegative: Boolean\r\n   val limit: Long\r\n\r\n   val firstChar = this[0]\r\n   if (firstChar < '0') { // Possible leading sign\r\n   if (length == 1) return null // non-digit (possible sign) only, no digits after\r\n\r\n   start = 1\r\n\r\n   if (firstChar == '-') {\r\n   isNegative = true\r\n   limit = Long.MIN_VALUE\r\n   } else if (firstChar == '+') {\r\n   isNegative = false\r\n   limit = -Long.MAX_VALUE\r\n   } else\r\n   return null\r\n   } else {\r\n   start = 0\r\n   isNegative = false\r\n   limit = -Long.MAX_VALUE\r\n   }\r\n\r\n\r\n   val limitBeforeMul = limit / radix\r\n   var result = 0L\r\n   for (i in start..(length - 1)) {\r\n   val digit = digitOf(this[i], radix)\r\n\r\n   if (digit < 0) return null\r\n   if (result < limitBeforeMul) return null\r\n\r\n   result *= radix\r\n\r\n   if (result < limit + digit) return null\r\n\r\n   result -= digit\r\n   }\r\n\r\n   return if (isNegative) result else -result\r\n}\r\n\r\n\r\n\r\ninternal fun numberFormatError(input: String): Nothing = throw NumberFormatException(\"Invalid number format: '$input'\")\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n@file:kotlin.jvm.JvmName(\"UnsignedKt\")\r\n@file:UseExperimental(ExperimentalUnsignedTypes::class)\r\npackage kotlin\r\n\r\n@PublishedApi\r\ninternal fun uintCompare(v1: Int, v2: Int): Int = (v1 xor Int.MIN_VALUE).compareTo(v2 xor Int.MIN_VALUE)\r\n@PublishedApi\r\ninternal fun ulongCompare(v1: Long, v2: Long): Int = (v1 xor Long.MIN_VALUE).compareTo(v2 xor Long.MIN_VALUE)\r\n\r\n@PublishedApi\r\ninternal fun uintDivide(v1: UInt, v2: UInt): UInt = (v1.toLong() / v2.toLong()).toUInt()\r\n@PublishedApi\r\ninternal fun uintRemainder(v1: UInt, v2: UInt): UInt = (v1.toLong() % v2.toLong()).toUInt()\r\n\r\n// Division and remainder are based on Guava's UnsignedLongs implementation\r\n// Copyright 2011 The Guava Authors\r\n\r\n@PublishedApi\r\ninternal fun ulongDivide(v1: ULong, v2: ULong):

ULong {\r\n   val dividend = v1.toLong()\r\n   val divisor = v2.toLong()\r\n   if (divisor < 0) { // i.e., divisor >= 2^63:\r\n   return if (v1 < v2) ULong(0) else ULong(1)\r\n   }\r\n\r\n   // Optimization - use signed division if both dividend and divisor < 2^63\r\n   if (dividend >= 0) {\r\n   return ULong(dividend / divisor)\r\n   }\r\n\r\n   // Otherwise, approximate the quotient, check, and correct if necessary.\r\n   val quotient = ((dividend ushr 1) / divisor) shl 1\r\n   val rem = dividend - quotient * divisor\r\n   return ULong(quotient + if (ULong(rem) >= ULong(divisor)) 1 else 0)\r\n\r\n}\r\n\r\n@PublishedApi\r\ninternal fun ulongRemainder(v1: ULong, v2: ULong): ULong {\r\n   val dividend = v1.toLong()\r\n   val divisor = v2.toLong()\r\n   if (divisor < 0) { // i.e., divisor >= 2^63:\r\n   return if (v1 < v2) {\r\n   v1 // dividend < divisor\r\n   } else {\r\n   v1 - v2 // dividend >= divisor\r\n   }\r\n   }\r\n\r\n   // Optimization - use signed modulus if both dividend and divisor < 2^63\r\n   if (dividend >= 0) {\r\n   return ULong(dividend % divisor)\r\n   }\r\n\r\n   // Otherwise, approximate the quotient, check, and correct if necessary.\r\n   val quotient = ((dividend ushr 1) / divisor) shl 1\r\n   val rem = dividend - quotient * divisor\r\n   return ULong(rem - if (ULong(rem) >= ULong(divisor)) divisor else 0)\r\n}\r\n\r\n@PublishedApi\r\ninternal fun doubleToUInt(v: Double): UInt = when {\r\n   v.isNaN() -> 0u\r\n   v <= UInt.MIN_VALUE.toDouble() -> UInt.MIN_VALUE\r\n   v >= UInt.MAX_VALUE.toDouble() -> UInt.MAX_VALUE\r\n   v <= Int.MAX_VALUE -> v.toInt().toUInt()\r\n   else -> (v - Int.MAX_VALUE).toInt().toUInt() + Int.MAX_VALUE.toUInt()   // Int.MAX_VALUE < v < UInt.MAX_VALUE\r\n}\r\n\r\n@PublishedApi\r\ninternal fun doubleToULong(v: Double): ULong = when {\r\n   v.isNaN() -> 0u\r\n   v <= ULong.MIN_VALUE.toDouble() -> ULong.MIN_VALUE\r\n   v >= ULong.MAX_VALUE.toDouble() -> ULong.MAX_VALUE\r\n   v < Long.MAX_VALUE -> v.toLong().toULong()\r\n\r\n   // Real values from Long.MAX_VALUE to (Long.MAX_VALUE + 1) are not representable in Double, so don't handle them.\r\n   else -> (v - 9223372036854775808.0).toLong().toULong() + 9223372036854775808uL   // Long.MAX_VALUE + 1 < v < ULong.MAX_VALUE\r\n}\r\n\r\n\r\n@PublishedApi\r\ninternal fun uintToDouble(v: Int): Double = (v and Int.MAX_VALUE).toDouble() + (v ushr 31 shl 30).toDouble() * 2\r\n\r\n@PublishedApi\r\ninternal fun ulongToDouble(v: Long): Double = (v ushr 11).toDouble() * 2048 + (v and 2047)\r\n\r\n\r\ninternal fun ulongToString(v: Long): String = ulongToString(v, 10)\r\n\r\ninternal fun ulongToString(v: Long, base: Int): String {\r\n   if (v >= 0) return v.toString(base)\r\n\r\n   var quotient = ((v ushr 1) / base) shl 1\r\n   var rem = v - quotient * base\r\n   if (rem >= base) {\r\n   rem -= base\r\n   quotient += 1\r\n   }\r\n   return quotient.toString(base) + rem.toString(base)\r\n}\r\n\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"CollectionsKt\")\r\n\r\npackage kotlin.collections\r\n\r\n/**\r\n * Given an [iterator] function constructs an [Iterable] instance that returns values through the [Iterator]\r\n * provided by that function.\r\n *\r\n * @sample samples.collections.Iterables.Building.iterable\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> Iterable(crossinline iterator: () -> Iterator<T>): Iterable<T> = object : Iterable<T> {\r\n   override fun iterator(): Iterator<T> = iterator()\r\n}\r\n\r\n\r\n/**\r\n * A wrapper over another [Iterable] (or any other object that can produce an [Iterator]) that returns\r\n * an indexing iterator.\r\n */\r\ninternal class IndexingIterable<out T>(private val iteratorFactory: () -> Iterator<T>) : Iterable<IndexedValue<T>> {\r\n   override fun iterator(): Iterator<IndexedValue<T>> = IndexingIterator(iteratorFactory())\r\n}\r\n\r\n\r\n\r\n/**\r\n * Returns the size of this iterable if it is known, or `null` otherwise.\r\n */\r\n@PublishedApi\r\ninternal fun <T> Iterable<T>.collectionSizeOrNull(): Int? = if (this is Collection<*>) this.size else null\r\n\r\n/**\r\n * Returns the size of this iterable if it is known, or the specified [default] value otherwise.\r\n */\r\n@PublishedApi\r\ninternal fun <T> Iterable<T>.collectionSizeOrDefault(default: Int): Int = if (this is Collection<*>) this.size else default\r\n\r\n/** Returns true when it's safe to convert this collection to a set without changing contains method behavior. */\r\nprivate fun <T> Collection<T>.safeToConvertToSet() = size > 2 && this is ArrayList\r\n\r\n/** Converts this collection to a set, when it's worth so and it doesn't change contains method behavior. */\r\ninternal fun <T> Iterable<T>.convertToSetForSetOperationWith(source: Iterable<T>): Collection<T> =\r\n   when (this)

{\r\n is Set -> this\r\n is Collection ->\r\n when {\r\n source is Collection && source.size < 2 -> this\r\n else -> if (this.safeToConvertToSet()) toHashSet() else this\r\n }\r\n else -> toHashSet()\r\n }\r\n\r\n/** Converts this collection to a set, when it's worth so and it doesn't change contains method behavior. */\r\ninternal fun <T> Iterable<T>.convertToSetForSetOperation(): Collection<T> =\r\n when (this) {\r\n is Set -> this\r\n is Collection -> if (this.safeToConvertToSet()) toHashSet() else this\r\n else -> toHashSet()\r\n }\r\n\r\n\r\n/**\r\n * Returns a single list of all elements from all collections in the given collection.\r\n * @sample samples.collections.Iterables.Operations.flattenIterable\r\n */\r\npublic fun <T> Iterable<Iterable<T>>.flatten(): List<T> {\r\n val result = ArrayList<T>()\r\n for (element in this) {\r\n result.addAll(element)\r\n }\r\n return result\r\n}\r\n\r\n/**\r\n * Returns a pair of lists, where\r\n * *first* list is built from the first values of each pair from this collection,\r\n * *second* list is built from the second values of each pair from this collection.\r\n * @sample samples.collections.Iterables.Operations.unzipIterable\r\n */\r\npublic fun <T, R> Iterable<Pair<T, R>>.unzip(): Pair<List<T>, List<R>> {\r\n val expectedSize = collectionSizeOrDefault(10)\r\n val listT = ArrayList<T>(expectedSize)\r\n val listR = ArrayList<R>(expectedSize)\r\n for (pair in this) {\r\n listT.add(pair.first)\r\n listR.add(pair.second)\r\n }\r\n return listT to listR\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"SequencesKt\")\r\n\r\npackage kotlin.sequences\r\n\r\n/**\r\n * Given an [iterator] function constructs a [Sequence] that returns values through the [Iterator]\r\n * provided by that function.\r\n * The values are evaluated lazily, and the sequence is potentially infinite.\r\n *\r\n * @sample samples.collections.Sequences.Building.sequenceFromIterator\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> Sequence(crossinline iterator: () -> Iterator<T>): Sequence<T> = object : Sequence<T> {\r\n override fun iterator(): Iterator<T> = iterator()\r\n}\r\n\r\n/**\r\n * Creates a sequence that returns all elements from this iterator. The sequence is constrained to be iterated only once.\r\n *\r\n * @sample samples.collections.Sequences.Building.sequenceFromIterator\r\n */\r\npublic fun <T> Iterator<T>.asSequence(): Sequence<T> = Sequence { this }.constrainOnce()\r\n\r\n/**\r\n * Creates a sequence that returns the specified values.\r\n *\r\n * @sample samples.collections.Sequences.Building.sequenceOfValues\r\n */\r\npublic fun <T> sequenceOf(vararg elements: T): Sequence<T> = if (elements.isEmpty()) emptySequence() else elements.asSequence()\r\n\r\n/**\r\n * Returns an empty sequence.\r\n */\r\npublic fun <T> emptySequence(): Sequence<T> = EmptySequence\r\n\r\nprivate object EmptySequence : Sequence<Nothing>, DropTakeSequence<Nothing> {\r\n override fun iterator(): Iterator<Nothing> = EmptyIterator\r\n override fun drop(n: Int) = EmptySequence\r\n override fun take(n: Int) = EmptySequence\r\n}\r\n\r\n/**\r\n * Returns this sequence if it's not `null` and the empty sequence otherwise.\r\n * @sample samples.collections.Sequences.Usage.sequenceOrEmpty\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> Sequence<T>?.orEmpty(): Sequence<T> = this ?: emptySequence()\r\n\r\n\r\n/**\r\n * Returns a sequence that iterates through the elements either of this sequence\r\n * or, if this sequence turns out to be empty, of the sequence returned by [defaultValue] function.\r\n *\r\n * @sample samples.collections.Sequences.Usage.sequenceIfEmpty\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic fun <T> Sequence<T>.ifEmpty(defaultValue: () -> Sequence<T>): Sequence<T> = sequence {\r\n val iterator = this@ifEmpty.iterator()\r\n if (iterator.hasNext()) {\r\n yieldAll(iterator)\r\n } else {\r\n yieldAll(defaultValue())\r\n }\r\n}\r\n\r\n/**\r\n * Returns a sequence of all elements from all sequences in this sequence.\r\n *\r\n * The operation is _intermediate_ and _stateless_.\r\n */\r\npublic fun <T> Sequence<Sequence<T>>.flatten(): Sequence<T> = flatten { it.iterator() }\r\n\r\n/**\r\n * Returns a sequence of all elements from all iterables in this sequence.\r\n *\r\n * The operation is _intermediate_ and _stateless_.\r\n */\r\n@kotlin.jvm.JvmName(\"flattenSequenceOfIterable\")\r\npublic fun <T> Sequence<Iterable<T>>.flatten(): Sequence<T> = flatten { it.iterator() }\r\n\r\nprivate fun <T, R> Sequence<T>.flatten(iterator: (T) -> Iterator<R>): Sequence<R> {\r\n if (this is TransformingSequence<*, *>) {\r\n return (this as TransformingSequence<*, T>).flatten(iterator)\r\n }\r\n return FlatteningSequence(this,

{ it }, iterator)\r\n}\r\n\r\n/**\r\n * Returns a pair of lists, where\r\n * *first* list is built from the first values of each pair from this sequence,\r\n * *second* list is built from the second values of each pair from this sequence.\r\n *\r\n * The operation is _terminal_.\r\n */\r\npublic fun <T, R> Sequence<Pair<T, R>>.unzip(): Pair<List<T>, List<R>> {\r\n val listT = ArrayList<T>()\r\n val listR = ArrayList<R>()\r\n for (pair in this) {\r\n listT.add(pair.first)\r\n listR.add(pair.second)\r\n }\r\n return listT to listR\r\n}\r\n\r\n/**\r\n * A sequence that returns the values from the underlying [sequence] that either match or do not match\r\n * the specified [predicate].\r\n *\r\n * @param sendWhen If `true`, values for which the predicate returns `true` are returned. Otherwise,\r\n * values for which the predicate returns `false` are returned\r\n */\r\ninternal class FilteringSequence<T>(\r\n private val sequence: Sequence<T>,\r\n private val sendWhen: Boolean = true,\r\n private val predicate: (T) -> Boolean\r\n) : Sequence<T> {\r\n\r\n override fun iterator(): Iterator<T> = object : Iterator<T> {\r\n val iterator = sequence.iterator()\r\n var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue\r\n var nextItem: T? = null\r\n\r\n private fun calcNext() {\r\n while (iterator.hasNext()) {\r\n val item = iterator.next()\r\n if (predicate(item) == sendWhen) {\r\n nextItem = item\r\n nextState = 1\r\n return\r\n }\r\n }\r\n nextState = 0\r\n }\r\n\r\n override fun next(): T {\r\n if (nextState == -1)\r\n calcNext()\r\n if (nextState == 0)\r\n throw NoSuchElementException()\r\n val result = nextItem\r\n nextItem = null\r\n nextState = -1\r\n @Suppress(\"UNCHECKED_CAST\")\r\n return result as T\r\n }\r\n\r\n override fun hasNext(): Boolean {\r\n if (nextState == -1)\r\n calcNext()\r\n return nextState == 1\r\n }\r\n }\r\n}\r\n\r\n/**\r\n * A sequence which returns the results of applying the given [transformer] function to the values\r\n * in the underlying [sequence].\r\n */\r\n\r\ninternal class TransformingSequence<T, R>\r\nconstructor(private val sequence: Sequence<T>, private val transformer: (T) -> R) : Sequence<R> {\r\n override fun iterator(): Iterator<R> = object : Iterator<R> {\r\n val iterator = sequence.iterator()\r\n override fun next(): R {\r\n return transformer(iterator.next())\r\n }\r\n\r\n override fun hasNext(): Boolean {\r\n return iterator.hasNext()\r\n }\r\n }\r\n\r\n internal fun <E> flatten(iterator: (R) -> Iterator<E>): Sequence<E> {\r\n return FlatteningSequence<T, R, E>(sequence, transformer, iterator)\r\n }\r\n}\r\n\r\n/**\r\n * A sequence which returns the results of applying the given [transformer] function to the values\r\n * in the underlying [sequence], where the transformer function takes the index of the value in the underlying\r\n * sequence along with the value itself.\r\n */\r\ninternal class TransformingIndexedSequence<T, R>\r\nconstructor(private val sequence: Sequence<T>, private val transformer: (Int, T) -> R) : Sequence<R> {\r\n override fun iterator(): Iterator<R> = object : Iterator<R> {\r\n val iterator = sequence.iterator()\r\n var index = 0\r\n override fun next(): R {\r\n return transformer(checkIndexOverflow(index++), iterator.next())\r\n }\r\n\r\n override fun hasNext(): Boolean {\r\n return iterator.hasNext()\r\n }\r\n }\r\n}\r\n\r\n/**\r\n * A sequence which combines values from the underlying [sequence] with their indices and returns them as\r\n * [IndexedValue] objects.\r\n */\r\ninternal class IndexingSequence<T>\r\nconstructor(private val sequence: Sequence<T>) : Sequence<IndexedValue<T>> {\r\n override fun iterator(): Iterator<IndexedValue<T>> = object : Iterator<IndexedValue<T>> {\r\n val iterator = sequence.iterator()\r\n var index = 0\r\n override fun next(): IndexedValue<T> {\r\n return IndexedValue(checkIndexOverflow(index++), iterator.next())\r\n }\r\n\r\n override fun hasNext(): Boolean {\r\n return iterator.hasNext()\r\n }\r\n }\r\n}\r\n\r\n/**\r\n * A sequence which takes the values from two parallel underlying sequences, passes them to the given\r\n * [transform] function and returns the values returned by that function. The sequence stops returning\r\n * values as soon as one of the underlying sequences stops returning values.\r\n */\r\ninternal class MergingSequence<T1, T2, V>\r\nconstructor(\r\n private val sequence1: Sequence<T1>,\r\n private val sequence2: Sequence<T2>,\r\n private val transform: (T1, T2) -> V\r\n) : Sequence<V> {\r\n override fun iterator(): Iterator<V> = object : Iterator<V> {\r\n val iterator1 = sequence1.iterator()\r\n val iterator2 = sequence2.iterator()\r\n override fun next(): V {\r\n return transform(iterator1.next(), iterator2.next())\r\n }\r\n\r\n override fun hasNext(): Boolean {\r\n return iterator1.hasNext() && iterator2.hasNext()\r\n }\r\n }\r\n}\r\n\r\ninternal class FlatteningSequence<T, R, E>\r\nconstructor(\r\n private val sequence: Sequence<T>,\r\n private val transformer: (T) -> R,\r\n private val

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iterator: (R) -> Iterator<E>\r\n) : Sequence<E> {\r\n    override fun iterator(): Iterator<E> = object : Iterator<E> {\r\n        val iterator = sequence.iterator()\r\n        var itemIterator: Iterator<E>? = null\r\n\r\n        override fun next(): E {\r\n            if (!ensureItemIterator())\r\n                throw NoSuchElementException()\r\n            return itemIterator!!.next()\r\n        }\r\n\r\n        override fun hasNext(): Boolean {\r\n            return ensureItemIterator()\r\n        }\r\n\r\n        private fun ensureItemIterator(): Boolean {\r\n            if (itemIterator?.hasNext() == false)\r\n                itemIterator = null\r\n\r\n            while (itemIterator == null) {\r\n                if (!iterator.hasNext()) {\r\n                    return false\r\n                } else {\r\n                    val element = iterator.next()\r\n                    val nextItemIterator = iterator(transformer(element))\r\n                    if (nextItemIterator.hasNext()) {\r\n                        itemIterator = nextItemIterator\r\n                        return true\r\n                    }\r\n                }\r\n            }\r\n            return true\r\n        }\r\n    }\r\n}\r\n\r\n/**\r\n * A sequence that supports drop(n) and take(n) operations\r\n */\r\ninternal interface DropTakeSequence<T> : Sequence<T> {\r\n    fun drop(n: Int): Sequence<T>\r\n    fun take(n: Int): Sequence<T>\r\n}\r\n\r\n/**\r\n * A sequence that skips [startIndex] values from the underlying [sequence]\r\n * and stops returning values right before [endIndex], i.e. stops at `endIndex - 1`\r\n */\r\ninternal class SubSequence<T>(\r\n    private val sequence: Sequence<T>,\r\n    private val startIndex: Int,\r\n    private val endIndex: Int\r\n) : Sequence<T>, DropTakeSequence<T> {\r\n\r\n    init {\r\n        require(startIndex >= 0) { \"startIndex should be non-negative, but is $startIndex\" }\r\n        require(endIndex >= 0) { \"endIndex should be non-negative, but is $endIndex\" }\r\n        require(endIndex >= startIndex) { \"endIndex should be not less than startIndex, but was $endIndex < $startIndex\" }\r\n    }\r\n\r\n    private val count: Int get() = endIndex - startIndex\r\n\r\n    override fun drop(n: Int): Sequence<T> = if (n >= count) emptySequence() else SubSequence(sequence, startIndex + n, endIndex)\r\n    override fun take(n: Int): Sequence<T> = if (n >= count) this else SubSequence(sequence, startIndex, startIndex + n)\r\n\r\n    override fun iterator() = object : Iterator<T> {\r\n\r\n        val iterator = sequence.iterator()\r\n        var position = 0\r\n\r\n        // Shouldn't be called from constructor to avoid premature iteration\r\n        private fun drop() {\r\n            while (position < startIndex && iterator.hasNext()) {\r\n                iterator.next()\r\n                position++\r\n            }\r\n        }\r\n\r\n        override fun hasNext(): Boolean {\r\n            drop()\r\n            return (position < endIndex) && iterator.hasNext()\r\n        }\r\n\r\n        override fun next(): T {\r\n            drop()\r\n            if (position >= endIndex)\r\n                throw NoSuchElementException()\r\n            position++\r\n            return iterator.next()\r\n        }\r\n    }\r\n}\r\n\r\n/**\r\n * A sequence that returns at most [count] values from the underlying [sequence], and stops returning values\r\n * as soon as that count is reached.\r\n */\r\ninternal class TakeSequence<T>(\r\n    private val sequence: Sequence<T>,\r\n    private val count: Int\r\n) : Sequence<T>, DropTakeSequence<T> {\r\n\r\n    init {\r\n        require(count >= 0) { \"count must be non-negative, but was $count.\" }\r\n    }\r\n\r\n    override fun drop(n: Int): Sequence<T> = if (n >= count) emptySequence() else SubSequence(sequence, n, count)\r\n    override fun take(n: Int): Sequence<T> = if (n >= count) this else TakeSequence(sequence, n)\r\n\r\n    override fun iterator(): Iterator<T> = object : Iterator<T> {\r\n        var left = count\r\n        val iterator = sequence.iterator()\r\n\r\n        override fun next(): T {\r\n            if (left == 0)\r\n                throw NoSuchElementException()\r\n            left--\r\n            return iterator.next()\r\n        }\r\n\r\n        override fun hasNext(): Boolean {\r\n            return left > 0 && iterator.hasNext()\r\n        }\r\n    }\r\n}\r\n\r\n/**\r\n * A sequence that returns values from the underlying [sequence] while the [predicate] function returns\r\n * `true`, and stops returning values once the function returns `false` for the next element.\r\n */\r\ninternal class TakeWhileSequence<T>\r\nconstructor(\r\n    private val sequence: Sequence<T>,\r\n    private val predicate: (T) -> Boolean\r\n) : Sequence<T> {\r\n    override fun iterator(): Iterator<T> = object : Iterator<T> {\r\n        val iterator = sequence.iterator()\r\n        var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue\r\n        var nextItem: T? = null\r\n\r\n        private fun calcNext() {\r\n            if (iterator.hasNext()) {\r\n                val item = iterator.next()\r\n                if (predicate(item)) {\r\n                    nextState = 1\r\n                    nextItem = item\r\n                    return\r\n                }\r\n            }\r\n            nextState = 0\r\n        }\r\n\r\n        override fun next(): T {\r\n            if (nextState == -1)\r\n                calcNext() // will change nextState\r\n            if (nextState == 0)\r\n                throw NoSuchElementException()\r\n            @Suppress(\"UNCHECKED_CAST\")\r\n            val result = nextItem as T\r\n\r\n            // Clean next to avoid keeping reference on yielded instance\r\n            nextItem = null\r\n            nextState = -1\r\n            return result\r\n
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}\r\n\r\n        override fun hasNext(): Boolean {\r\n            if (nextState == -1)\r\n                calcNext() // will change nextState\r\n            return nextState == 1\r\n        }\r\n    }\r\n}\r\n\r\n/**\r\n * A sequence that skips the specified number of values from the underlying [sequence] and returns\r\n * all values after that.\r\n */\r\ninternal class DropSequence<T>(\r\n    private val sequence: Sequence<T>,\r\n    private val count: Int\r\n) : Sequence<T>, DropTakeSequence<T> {\r\n    init {\r\n        require(count >= 0) { \"count must be non-negative, but was $count.\" }\r\n    }\r\n\r\n    override fun drop(n: Int): Sequence<T> = (count + n).let { n1 -> if (n1 < 0) DropSequence(this, n) else DropSequence(sequence, n1) }\r\n    override fun take(n: Int): Sequence<T> = (count + n).let { n1 -> if (n1 < 0) TakeSequence(this, n) else SubSequence(sequence, count, n1) }\r\n\r\n    override fun iterator(): Iterator<T> = object : Iterator<T> {\r\n        val iterator = sequence.iterator()\r\n        var left = count\r\n\r\n        // Shouldn't be called from constructor to avoid premature iteration\r\n        private fun drop() {\r\n            while (left > 0 && iterator.hasNext()) {\r\n                iterator.next()\r\n                left--\r\n            }\r\n        }\r\n\r\n        override fun next(): T {\r\n            drop()\r\n            return iterator.next()\r\n        }\r\n\r\n        override fun hasNext(): Boolean {\r\n            drop()\r\n            return iterator.hasNext()\r\n        }\r\n    }\r\n}\r\n\r\n/**\r\n * A sequence that skips the values from the underlying [sequence] while the given [predicate] returns `true` and returns\r\n * all values after that.\r\n */\r\ninternal class DropWhileSequence<T>\r\nconstructor(\r\n    private val sequence: Sequence<T>,\r\n    private val predicate: (T) -> Boolean\r\n) : Sequence<T> {\r\n\r\n    override fun iterator(): Iterator<T> = object : Iterator<T> {\r\n        val iterator = sequence.iterator()\r\n        var dropState: Int = -1 // -1 for not dropping, 1 for nextItem, 0 for normal iteration\r\n        var nextItem: T? = null\r\n\r\n        private fun drop() {\r\n            while (iterator.hasNext()) {\r\n                val item = iterator.next()\r\n                if (!predicate(item)) {\r\n                    nextItem = item\r\n                    dropState = 1\r\n                    return\r\n                }\r\n            }\r\n            dropState = 0\r\n        }\r\n\r\n        override fun next(): T {\r\n            if (dropState == -1)\r\n                drop()\r\n\r\n            if (dropState == 1) {\r\n                @Suppress(\"UNCHECKED_CAST\")\r\n                val result = nextItem as T\r\n                nextItem = null\r\n                dropState = 0\r\n                return result\r\n            }\r\n            return iterator.next()\r\n        }\r\n\r\n        override fun hasNext(): Boolean {\r\n            if (dropState == -1)\r\n                drop()\r\n            return dropState == 1 || iterator.hasNext()\r\n        }\r\n    }\r\n}\r\n\r\n\r\ninternal class DistinctSequence<T, K>(private val source: Sequence<T>, private val keySelector: (T) -> K) : Sequence<T> {\r\n    override fun iterator(): Iterator<T> = DistinctIterator(source.iterator(), keySelector)\r\n}\r\n\r\n\r\nprivate class DistinctIterator<T, K>(private val source: Iterator<T>, private val keySelector: (T) -> K) : AbstractIterator<T>() {\r\n    private val observed = HashSet<K>()\r\n\r\n    override fun computeNext() {\r\n        while (source.hasNext()) {\r\n            val next = source.next()\r\n            val key = keySelector(next)\r\n\r\n            if (observed.add(key)) {\r\n                setNext(next)\r\n                return\r\n            }\r\n        }\r\n\r\n        done()\r\n    }\r\n}\r\n\r\n\r\n\r\nprivate class GeneratorSequence<T : Any>(private val getInitialValue: () -> T?, private val getNextValue: (T) -> T?) : Sequence<T> {\r\n    override fun iterator(): Iterator<T> = object : Iterator<T> {\r\n        var nextItem: T? = null\r\n        var nextState: Int = -2 // -2 for initial unknown, -1 for next unknown, 0 for done, 1 for continue\r\n\r\n\r\n        private fun calcNext() {\r\n            nextItem = if (nextState == -2) getInitialValue() else getNextValue(nextItem!!)\r\n            nextState = if (nextItem == null) 0 else 1\r\n        }\r\n\r\n        override fun next(): T {\r\n            if (nextState < 0)\r\n                calcNext()\r\n\r\n\r\n            if (nextState == 0)\r\n                throw NoSuchElementException()\r\n            val result = nextItem as T\r\n            // Do not clean nextItem (to avoid keeping reference on yielded instance) -- need to keep state for getNextValue\r\n            nextState = -1\r\n            return result\r\n        }\r\n\r\n\r\n        override fun hasNext(): Boolean {\r\n            if (nextState < 0)\r\n                calcNext()\r\n            return nextState == 1\r\n        }\r\n    }\r\n}\r\n\r\n\r\n/**\r\n * Returns a wrapper sequence that provides values of this sequence, but ensures it can be iterated only one time.\r\n *\r\n * The operation is _intermediate_ and _stateless_.\r\n *\r\n * [IllegalStateException] is thrown on iterating the returned sequence from the second time.\r\n *\r\n */\r\npublic fun <T> Sequence<T>.constrainOnce(): Sequence<T> {\r\n    // as? does not work in js\r\n    //return this as? ConstrainedOnceSequence<T> ?: ConstrainedOnceSequence(this)\r\n    return if (this is ConstrainedOnceSequence<T>) this else ConstrainedOnceSequence(this)\r\n}\r\n\r\n\r\n\r\n\r\n/**\r\n * Returns a sequence which invokes the function to calculate the next value on each iteration until the function returns `null`.\r\n *\r\n * The returned sequence is constrained to be iterated only once.\r\n *\r\n * @see constrainOnce\r\n * @see
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kotlin.sequences.sequence\r\n *\r\n * @sample samples.collections.Sequences.Building.generateSequence\r\n */\r\npublic fun <T : Any> generateSequence(nextFunction: () -> T?): Sequence<T> {\r\n return GeneratorSequence(nextFunction, { nextFunction() }).constrainOnce()\r\n}\r\n\r\n/**\r\n * Returns a sequence defined by the starting value [seed] and the function [nextFunction],\r\n * which is invoked to calculate the next value based on the previous one on each iteration.\r\n *\r\n * The sequence produces values until it encounters first `null` value.\r\n * If [seed] is `null`, an empty sequence is produced.\r\n *\r\n * The sequence can be iterated multiple times, each time starting with [seed].\r\n *\r\n * @see kotlin.sequences.sequence\r\n *\r\n * @sample samples.collections.Sequences.Building.generateSequenceWithSeed\r\n */\r\n@kotlin.internal.LowPriorityInOverloadResolution\r\npublic fun <T : Any> generateSequence(seed: T?, nextFunction: (T) -> T?): Sequence<T> =\r\n if (seed == null)\r\n EmptySequence\r\n else\r\n GeneratorSequence({ seed }, nextFunction)\r\n\r\n/**\r\n * Returns a sequence defined by the function [seedFunction], which is invoked to produce the starting value,\r\n * and the [nextFunction], which is invoked to calculate the next value based on the previous one on each iteration.\r\n *\r\n * The sequence produces values until it encounters first `null` value.\r\n * If [seedFunction] returns `null`, an empty sequence is produced.\r\n *\r\n * The sequence can be iterated multiple times.\r\n *\r\n * @see kotlin.sequences.sequence\r\n *\r\n * @sample samples.collections.Sequences.Building.generateSequenceWithLazySeed\r\n */\r\npublic fun <T : Any> generateSequence(seedFunction: () -> T?, nextFunction: (T) -> T?): Sequence<T> =\r\n GeneratorSequence(seedFunction, nextFunction)\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"PreconditionsKt\")\r\n\r\npackage kotlin\r\n\r\nimport kotlin.contracts.contract\r\n\r\n/**\r\n * Throws an [IllegalArgumentException] if the [value] is false.\r\n *\r\n * @sample samples.misc.Preconditions.failRequireWithLazyMessage\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun require(value: Boolean): Unit {\r\n contract {\r\n returns() implies value\r\n }\r\n require(value) { \"Failed requirement.\" }\r\n}\r\n\r\n/**\r\n * Throws an [IllegalArgumentException] with the result of calling [lazyMessage] if the [value] is false.\r\n *\r\n * @sample samples.misc.Preconditions.failRequireWithLazyMessage\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun require(value: Boolean, lazyMessage: () -> Any): Unit {\r\n contract {\r\n returns() implies value\r\n }\r\n if (!value) {\r\n val message = lazyMessage()\r\n throw IllegalArgumentException(message.toString())\r\n }\r\n}\r\n\r\n/**\r\n * Throws an [IllegalArgumentException] if the [value] is null. Otherwise returns the not null value.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T : Any> requireNotNull(value: T?): T {\r\n contract {\r\n returns() implies (value != null)\r\n }\r\n return requireNotNull(value) { \"Required value was null.\" }\r\n}\r\n\r\n/**\r\n * Throws an [IllegalArgumentException] with the result of calling [lazyMessage] if the [value] is null. Otherwise\r\n * returns the not null value.\r\n *\r\n * @sample samples.misc.Preconditions.failRequireWithLazyMessage\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T : Any> requireNotNull(value: T?, lazyMessage: () -> Any): T {\r\n contract {\r\n returns() implies (value != null)\r\n }\r\n\r\n if (value == null) {\r\n val message = lazyMessage()\r\n throw IllegalArgumentException(message.toString())\r\n } else {\r\n return value\r\n }\r\n}\r\n\r\n/**\r\n * Throws an [IllegalStateException] if the [value] is false.\r\n *\r\n * @sample samples.misc.Preconditions.failCheckWithLazyMessage\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun check(value: Boolean): Unit {\r\n contract {\r\n returns() implies value\r\n }\r\n check(value) { \"Check failed.\" }\r\n}\r\n\r\n/**\r\n * Throws an [IllegalStateException] with the result of calling [lazyMessage] if the [value] is false.\r\n *\r\n * @sample samples.misc.Preconditions.failCheckWithLazyMessage\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun check(value: Boolean, lazyMessage: () -> Any): Unit {\r\n contract {\r\n returns() implies value\r\n }\r\n if (!value) {\r\n val message = lazyMessage()\r\n throw IllegalStateException(message.toString())\r\n }\r\n}\r\n\r\n/**\r\n * Throws an [IllegalStateException] if the [value] is null. Otherwise\r\n * returns the not null value.\r\n *\r\n * @sample samples.misc.Preconditions.failCheckWithLazyMessage\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun

<T : Any> checkNotNull(value: T?): T {\r\n   contract {\r\n   returns() implies (value != null)\r\n   }\r\n   return checkNotNull(value) { \"Required value was null.\" }\r\n}\r\n\r\n/**\r\n * Throws an [IllegalStateException] with the result of calling [lazyMessage] if the [value] is null. Otherwise\r\n * returns the not null value.\r\n *\r\n * @sample samples.misc.Preconditions.failCheckWithLazyMessage\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T : Any> checkNotNull(value: T?, lazyMessage: () -> Any): T {\r\n   contract {\r\n   returns() implies (value != null)\r\n   }\r\n\r\n   if (value == null) {\r\n   val message = lazyMessage()\r\n   throw IllegalStateException(message.toString())\r\n   } else {\r\n   return value\r\n   }\r\n}\r\n\r\n\r\n\r\n/**\r\n * Throws an [IllegalStateException] with the given [message].\r\n *\r\n * @sample samples.misc.Preconditions.failWithError\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun error(message: Any): Nothing = throw IllegalStateException(message.toString())\r\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.js.*\nimport primitiveArrayConcat\nimport withType\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun <T> Array<out T>.elementAt(index: Int): T {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun ByteArray.elementAt(index: Int): Byte {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun ShortArray.elementAt(index: Int): Short {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun IntArray.elementAt(index: Int): Int {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun LongArray.elementAt(index: Int): Long {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun FloatArray.elementAt(index: Int): Float {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun DoubleArray.elementAt(index: Int): Double {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun BooleanArray.elementAt(index: Int): Boolean {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun CharArray.elementAt(index: Int): Char {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic actual fun <T> Array<out T>.asList(): List<T> {\n   return

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ArrayList<T>(this.unsafeCast<Array<Any?>>())\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\n@kotlin.internal.InlineOnly\npublic actual inline fun ByteArray.asList(): List<Byte> {\n    return
this.unsafeCast<Array<Byte>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\n@kotlin.internal.InlineOnly\npublic actual inline fun ShortArray.asList(): List<Short> {\n    return
this.unsafeCast<Array<Short>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\n@kotlin.internal.InlineOnly\npublic actual inline fun IntArray.asList(): List<Int> {\n    return
this.unsafeCast<Array<Int>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\n@kotlin.internal.InlineOnly\npublic actual inline fun LongArray.asList(): List<Long> {\n    return
this.unsafeCast<Array<Long>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\n@kotlin.internal.InlineOnly\npublic actual inline fun FloatArray.asList(): List<Float> {\n    return
this.unsafeCast<Array<Float>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\n@kotlin.internal.InlineOnly\npublic actual inline fun DoubleArray.asList(): List<Double> {\n    return
this.unsafeCast<Array<Double>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\n@kotlin.internal.InlineOnly\npublic actual inline fun BooleanArray.asList(): List<Boolean> {\n    return
this.unsafeCast<Array<Boolean>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\npublic actual fun CharArray.asList(): List<Char> {\n    return object : AbstractList<Char>(), RandomAccess {\n
    override val size: Int get() = this@asList.size\n        override fun isEmpty(): Boolean = this@asList.isEmpty()\n
  override fun contains(element: Char): Boolean = this@asList.contains(element)\n        override fun get(index: Int):
Char {\n            AbstractList.checkElementIndex(index, size)\n            return this@asList[index]\n        }\n
override fun indexOf(element: Char): Int {\n            if ((element as Any?) !is Char) return -1\n            return
this@asList.indexOf(element)\n        }\n        override fun lastIndexOf(element: Char): Int {\n            if ((element as
Any?) !is Char) return -1\n            return this@asList.lastIndexOf(element)\n        }\n    }\n}\n\n/**\n * Returns
`true` if the two specified arrays are *deeply* equal to one another,\n * i.e. contain the same number of the same
elements in the same order.\n * \n * If two corresponding elements are nested arrays, they are also compared
deeply.\n * If any of arrays contains itself on any nesting level the behavior is undefined.\n * \n * The elements of
other types are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it
means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*/\n@SinceKotlin(\"1.1\")\n@library(\"arrayDeepEquals\")\npublic actual infix fun <T> Array<out
T>.contentDeepEquals(other: Array<out T>): Boolean {\n    definedExternally\n}\n\n/**\n * Returns a hash code
based on the contents of this array as if it is [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays
contains itself on any nesting level the behavior is undefined.\n
*/\n@SinceKotlin(\"1.1\")\n@library(\"arrayDeepHashCode\")\npublic actual fun <T> Array<out
T>.contentDeepHashCode(): Int {\n    definedExternally\n}\n\n/**\n * Returns a string representation of the
contents of this array as if it is a [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains
itself on any nesting level that reference\n * is rendered as `\"[...]\"` to prevent recursion.\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentDeepToString\n
*/\n@SinceKotlin(\"1.1\")\n@library(\"arrayDeepToString\")\npublic actual fun <T> Array<out
T>.contentDeepToString(): String {\n    definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays
are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n *
\n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers
it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*/\n@SinceKotlin(\"1.1\")\n@library(\"arrayEquals\")\npublic actual infix fun <T> Array<out
T>.contentEquals(other: Array<out T>): Boolean {\n    definedExternally\n}\n\n/**\n * Returns `true` if the two
specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the
same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating
point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*/\n@SinceKotlin(\"1.1\")\n@library(\"arrayEquals\")\npublic actual infix fun ByteArray.contentEquals(other:
ByteArray): Boolean {\n    definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are
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structurally equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayEquals\")\npublic actual infix fun ShortArray.contentEquals(other: ShortArray): Boolean {\n   definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayEquals\")\npublic actual infix fun IntArray.contentEquals(other: IntArray): Boolean {\n   definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayEquals\")\npublic actual infix fun LongArray.contentEquals(other: LongArray): Boolean {\n   definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayEquals\")\npublic actual infix fun FloatArray.contentEquals(other: FloatArray): Boolean {\n   definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayEquals\")\npublic actual infix fun DoubleArray.contentEquals(other: DoubleArray): Boolean {\n   definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayEquals\")\npublic actual infix fun BooleanArray.contentEquals(other: BooleanArray): Boolean {\n   definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayEquals\")\npublic actual infix fun CharArray.contentEquals(other: CharArray): Boolean {\n   definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayHashCode\")\npublic actual fun <T> Array<out T>.contentHashCode(): Int {\n   definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayHashCode\")\npublic actual fun ByteArray.contentHashCode(): Int {\n   definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayHashCode\")\npublic actual fun ShortArray.contentHashCode(): Int {\n   definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayHashCode\")\npublic actual fun IntArray.contentHashCode(): Int {\n   definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayHashCode\")\npublic actual fun LongArray.contentHashCode(): Int {\n   definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayHashCode\")\npublic actual fun FloatArray.contentHashCode(): Int {\n   definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayHashCode\")\npublic actual fun

DoubleArray.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayHashCode\")\npublic actual fun BooleanArray.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayHashCode\")\npublic actual fun CharArray.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayToString\")\npublic actual fun <T> Array<out T>.contentToString(): String {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayToString\")\npublic actual fun ByteArray.contentToString(): String {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayToString\")\npublic actual fun ShortArray.contentToString(): String {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayToString\")\npublic actual fun IntArray.contentToString(): String {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayToString\")\npublic actual fun LongArray.contentToString(): String {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayToString\")\npublic actual fun FloatArray.contentToString(): String {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayToString\")\npublic actual fun DoubleArray.contentToString(): String {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayToString\")\npublic actual fun BooleanArray.contentToString(): String {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayToString\")\npublic actual fun CharArray.contentToString(): String {\n definedExternally\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun <T> Array<out T>.copyInto(destination: Array<T>, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): Array<T> {\n arrayCopy(this, destination, destinationOffset, startIndex, endIndex)\n return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n *

@param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun ByteArray.copyInto(destination: ByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ByteArray {\n   arrayCopy(this.unsafeCast<Array<Byte>>(), destination.unsafeCast<Array<Byte>>(), destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun ShortArray.copyInto(destination: ShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ShortArray {\n   arrayCopy(this.unsafeCast<Array<Short>>(), destination.unsafeCast<Array<Short>>(), destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): IntArray {\n   arrayCopy(this.unsafeCast<Array<Int>>(), destination.unsafeCast<Array<Int>>(), destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0,

startIndex: Int = 0, endIndex: Int = size): LongArray {\n   arrayCopy(this.unsafeCast<Array<Long>>(), destination.unsafeCast<Array<Long>>(), destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): FloatArray {\n   arrayCopy(this.unsafeCast<Array<Float>>(), destination.unsafeCast<Array<Float>>(), destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray {\n   arrayCopy(this.unsafeCast<Array<Double>>(), destination.unsafeCast<Array<Double>>(), destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray {\n   arrayCopy(this.unsafeCast<Array<Boolean>>(), destination.unsafeCast<Array<Boolean>>(), destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex

> endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): CharArray {\n   arrayCopy(this.unsafeCast<Array<Char>>(), destination.unsafeCast<Array<Char>>(), destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\", \"NOTHING_TO_INLINE\")\npublic actual inline fun <T> Array<out T>.copyOf(): Array<T> {\n   return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline fun ByteArray.copyOf(): ByteArray {\n   return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline fun ShortArray.copyOf(): ShortArray {\n   return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline fun IntArray.copyOf(): IntArray {\n   return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic actual fun LongArray.copyOf(): LongArray {\n   return withType(\"LongArray\", this.asDynamic().slice())\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline fun FloatArray.copyOf(): FloatArray {\n   return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline fun DoubleArray.copyOf(): DoubleArray {\n   return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic actual fun BooleanArray.copyOf(): BooleanArray {\n   return withType(\"BooleanArray\", this.asDynamic().slice())\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic actual fun CharArray.copyOf(): CharArray {\n   return withType(\"CharArray\", this.asDynamic().slice())\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun ByteArray.copyOf(newSize: Int): ByteArray {\n   require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n   return fillFrom(this, ByteArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun ShortArray.copyOf(newSize: Int): ShortArray {\n   require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n   return fillFrom(this, ShortArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array

are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun IntArray.copyOf(newSize: Int): IntArray {\n   require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n   return fillFrom(this, IntArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun LongArray.copyOf(newSize: Int): LongArray {\n   require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n   return withType(\"LongArray\", arrayCopyResize(this, newSize, 0L))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun FloatArray.copyOf(newSize: Int): FloatArray {\n   require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n   return fillFrom(this, FloatArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun DoubleArray.copyOf(newSize: Int): DoubleArray {\n   require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n   return fillFrom(this, DoubleArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with `false` values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `false` values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun BooleanArray.copyOf(newSize: Int): BooleanArray {\n   require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n   return withType(\"BooleanArray\", arrayCopyResize(this, newSize, false))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with null char (`\\u0000`) values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with null char (`\\u0000`) values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun CharArray.copyOf(newSize: Int): CharArray {\n   require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n   return withType(\"CharArray\", fillFrom(this, CharArray(newSize)))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with `null` values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `null` values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizingCopyOf\n */\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\")\npublic actual fun <T> Array<out T>.copyOf(newSize: Int): Array<T?> {\n   require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n   return arrayCopyResize(this, newSize, null)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\")\npublic actual fun <T> Array<out

T>.copyOfRange(fromIndex: Int, toIndex: Int): Array<T> {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic actual fun ByteArray.copyOfRange(fromIndex: Int, toIndex: Int): ByteArray {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic actual fun ShortArray.copyOfRange(fromIndex: Int, toIndex: Int): ShortArray {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic actual fun IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic actual fun LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return withType(\"LongArray\", this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic actual fun FloatArray.copyOfRange(fromIndex: Int, toIndex: Int): FloatArray {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic actual fun DoubleArray.copyOfRange(fromIndex: Int, toIndex: Int): DoubleArray {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic actual fun BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return withType(\"BooleanArray\", this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic actual fun CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return withType(\"CharArray\", this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size

of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun FloatArray.fill(element: Float, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size

of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\", \"NOTHING_TO_INLINE\")\npublic actual inline operator fun <T> Array<out T>.plus(element: T): Array<T> {\n return this.asDynamic().concat(arrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun ByteArray.plus(element: Byte): ByteArray {\n return plus(byteArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun ShortArray.plus(element: Short): ShortArray {\n return plus(shortArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun IntArray.plus(element: Int): IntArray {\n return plus(intArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun LongArray.plus(element: Long): LongArray {\n return plus(longArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun FloatArray.plus(element: Float): FloatArray {\n return plus(floatArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun DoubleArray.plus(element: Double): DoubleArray {\n return plus(doubleArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun BooleanArray.plus(element: Boolean): BooleanArray {\n return plus(booleanArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun CharArray.plus(element: Char): CharArray {\n return plus(charArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\")\npublic actual operator fun <T> Array<out T>.plus(elements: Collection<T>): Array<T> {\n return arrayPlusCollection(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun ByteArray.plus(elements: Collection<Byte>): ByteArray {\n return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun ShortArray.plus(elements: Collection<Short>): ShortArray {\n return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual

operator fun IntArray.plus(elements: Collection<Int>): IntArray {\n   return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun LongArray.plus(elements: Collection<Long>): LongArray {\n   return arrayPlusCollection(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun FloatArray.plus(elements: Collection<Float>): FloatArray {\n   return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun DoubleArray.plus(elements: Collection<Double>): DoubleArray {\n   return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun BooleanArray.plus(elements: Collection<Boolean>): BooleanArray {\n   return arrayPlusCollection(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun CharArray.plus(elements: Collection<Char>): CharArray {\n   return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\", \"NOTHING_TO_INLINE\")\npublic actual inline operator fun <T> Array<out T>.plus(elements: Array<out T>): Array<T> {\n   return this.asDynamic().concat(elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun ByteArray.plus(elements: ByteArray): ByteArray {\n   return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun ShortArray.plus(elements: ShortArray): ShortArray {\n   return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun IntArray.plus(elements: IntArray): IntArray {\n   return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun LongArray.plus(elements: LongArray): LongArray {\n   return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun FloatArray.plus(elements: FloatArray): FloatArray {\n   return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun DoubleArray.plus(elements: DoubleArray): DoubleArray {\n   return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun BooleanArray.plus(elements: BooleanArray): BooleanArray {\n   return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun CharArray.plus(elements: CharArray): CharArray {\n   return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\", \"NOTHING_TO_INLINE\")\npublic actual inline fun <T> Array<out T>.plusElement(element: T): Array<T> {\n   return this.asDynamic().concat(arrayOf(element))\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@library(\"primitiveArraySort\")\npublic actual fun

IntArray.sort(): Unit {\n definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic actual fun LongArray.sort(): Unit {\n if (size > 1) sort { a: Long, b: Long -> a.compareTo(b) }\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@library(\"primitiveArraySort\")\npublic actual fun ByteArray.sort(): Unit {\n definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@library(\"primitiveArraySort\")\npublic actual fun ShortArray.sort(): Unit {\n definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@library(\"primitiveArraySort\")\npublic actual fun DoubleArray.sort(): Unit {\n definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@library(\"primitiveArraySort\")\npublic actual fun FloatArray.sort(): Unit {\n definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@library(\"primitiveArraySort\")\npublic actual fun CharArray.sort(): Unit {\n definedExternally\n}\n\n/**\n * Sorts the array in-place according to the natural order of its elements.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \n * @sample samples.collections.Arrays.Sorting.sortArrayOfComparable\n */\npublic actual fun <T : Comparable<T>> Array<out T>.sort(): Unit {\n if (size > 1) sortArray(this)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T> Array<out T>.sort(comparison: (a: T, b: T) -> Int): Unit {\n if (size > 1) sortArrayWith(this, comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.sort(noinline comparison: (a: Byte, b: Byte) -> Int): Unit {\n asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.sort(noinline comparison: (a: Short, b: Short) -> Int): Unit {\n asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.sort(noinline comparison: (a: Int, b: Int) -> Int): Unit {\n asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.sort(noinline comparison: (a: Long, b: Long) -> Int): Unit {\n asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.sort(noinline comparison: (a: Float, b: Float) -> Int): Unit {\n asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.sort(noinline comparison: (a: Double, b: Double) -> Int): Unit {\n asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.sort(noinline comparison: (a: Char, b: Char) -> Int): Unit {\n asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic actual fun <T> Array<out T>.sortWith(comparator: Comparator<in T>): Unit {\n if (size > 1) sortArrayWith(this, comparator)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun ByteArray.toTypedArray(): Array<Byte> {\n return js(\"[]\").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun ShortArray.toTypedArray(): Array<Short> {\n return js(\"[]\").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun IntArray.toTypedArray(): Array<Int> {\n return js(\"[]\").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun LongArray.toTypedArray(): Array<Long> {\n return js(\"[]\").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun

FloatArray.toTypedArray(): Array<Float> {\n   return js(\"[]\").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun DoubleArray.toTypedArray(): Array<Double> {\n   return js(\"[]\").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun BooleanArray.toTypedArray(): Array<Boolean> {\n   return js(\"[]\").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun CharArray.toTypedArray(): Array<Char> {\n   return Array(size) { index -> this[index] }\n}\n\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n@file:kotlin.jvm.JvmName(\"ComparisonsKt\")\r\n@file:kotlin.jvm.JvmMultifileClass\r\n\r\npackage kotlin.comparisons\r\n\r\n/**\r\n * Compares two values using the specified functions [selectors] to calculate the result of the comparison.\r\n * The functions are called sequentially, receive the given values [a] and [b] and return [Comparable]\r\n * objects. As soon as the [Comparable] instances returned by a function for [a] and [b] values do not\r\n * compare as equal, the result of that comparison is returned.\r\n *\r\n * @sample samples.comparisons.Comparisons.compareValuesByWithSelectors\r\n */\r\npublic fun <T> compareValuesBy(a: T, b: T, vararg selectors: (T) -> Comparable<*>?): Int {\r\n   require(selectors.size > 0)\r\n   return compareValuesByImpl(a, b, selectors)\r\n}\r\n\r\nprivate fun <T> compareValuesByImpl(a: T, b: T, selectors: Array<out (T) -> Comparable<*>?>): Int {\r\n   for (fn in selectors) {\r\n   val v1 = fn(a)\r\n   val v2 = fn(b)\r\n   val diff = compareValues(v1, v2)\r\n   if (diff != 0) return diff\r\n   }\r\n   return 0\r\n}\r\n\r\n/**\r\n * Compares two values using the specified [selector] function to calculate the result of the comparison.\r\n * The function is applied to the given values [a] and [b] and return [Comparable] objects.\r\n * The result of comparison of these [Comparable] instances is returned.\r\n *\r\n * @sample samples.comparisons.Comparisons.compareValuesByWithSingleSelector\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> compareValuesBy(a: T, b: T, selector: (T) -> Comparable<*>?): Int {\r\n   return compareValues(selector(a), selector(b))\r\n}\r\n\r\n/**\r\n * Compares two values using the specified [selector] function to calculate the result of the comparison.\r\n * The function is applied to the given values [a] and [b] and return objects of type K which are then being\r\n * compared with the given [comparator].\r\n *\r\n * @sample samples.comparisons.Comparisons.compareValuesByWithComparator\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T, K> compareValuesBy(a: T, b: T, comparator: Comparator<in K>, selector: (T) -> K): Int {\r\n   return comparator.compare(selector(a), selector(b))\r\n}\r\n\r\n\r\n//// Not so useful without type inference for receiver of expression\r\n//// compareValuesWith(v1, v2, compareBy { it.prop1 } thenByDescending { it.prop2 })\r\n///**\r\n// * Compares two values using the specified [comparator].\r\n// */\r\n//@Suppress(\"NOTHING_TO_INLINE\")\r\n//public inline fun <T> compareValuesWith(a: T, b: T, comparator: Comparator<T>): Int = comparator.compare(a, b)\r\n//\r\n\r\n\r\n/**\r\n * Compares two nullable [Comparable] values. Null is considered less than any value.\r\n *\r\n * @sample samples.comparisons.Comparisons.compareValues\r\n */\r\npublic fun <T : Comparable<*>> compareValues(a: T?, b: T?): Int {\r\n   if (a === b) return 0\r\n   if (a == null) return -1\r\n   if (b == null) return 1\r\n\r\n\r\n   @Suppress(\"UNCHECKED_CAST\")\r\n   return (a as Comparable<Any>).compareTo(b)\r\n}\r\n\r\n\r\n/**\r\n * Creates a comparator using the sequence of functions to calculate a result of comparison.\r\n * The functions are called sequentially, receive the given values `a` and `b` and return [Comparable]\r\n * objects. As soon as the [Comparable] instances returned by a function for `a` and `b` values do not\r\n * compare as equal, the result of that comparison is returned from the [Comparator].\r\n *\r\n * @sample samples.comparisons.Comparisons.compareByWithSelectors\r\n */\r\npublic fun <T> compareBy(vararg selectors: (T) -> Comparable<*>?): Comparator<T> {\r\n   require(selectors.size > 0)\r\n   return Comparator { a, b -> compareValuesByImpl(a, b, selectors) }\r\n}\r\n\r\n\r\n\r\n/**\r\n * Creates a comparator using the function to transform value to a [Comparable] instance for comparison.\r\n *\r\n * @sample samples.comparisons.Comparisons.compareByWithSingleSelector\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> compareBy(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\r\n   Comparator { a, b

-> compareValuesBy(a, b, selector) }\r\n\r\n/**\r\n * Creates a comparator using the [selector] function to transform values being compared and then applying\r\n * the specified [comparator] to compare transformed values.\r\n *\r\n * @sample samples.comparisons.Comparisons.compareByWithComparator\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T, K> compareBy(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =\r\n   Comparator { a, b -> compareValuesBy(a, b, comparator, selector) }\r\n\r\n/**\r\n * Creates a descending comparator using the function to transform value to a [Comparable] instance for comparison.\r\n *\r\n * @sample samples.comparisons.Comparisons.compareByDescendingWithSingleSelector\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> compareByDescending(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\r\n   Comparator { a, b -> compareValuesBy(b, a, selector) }\r\n\r\n/**\r\n * Creates a descending comparator using the [selector] function to transform values being compared and then applying\r\n * the specified [comparator] to compare transformed values.\r\n *\r\n * Note that an order of [comparator] is reversed by this wrapper.\r\n *\r\n * @sample samples.comparisons.Comparisons.compareByDescendingWithComparator\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T, K> compareByDescending(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =\r\n   Comparator { a, b -> compareValuesBy(b, a, comparator, selector) }\r\n\r\n/**\r\n * Creates a comparator comparing values after the primary comparator defined them equal. It uses\r\n * the function to transform value to a [Comparable] instance for comparison.\r\n *\r\n * @sample samples.comparisons.Comparisons.thenBy\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> Comparator<T>.thenBy(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\r\n   Comparator { a, b ->\r\n   val previousCompare = this@thenBy.compare(a, b)\r\n   if (previousCompare != 0) previousCompare else compareValuesBy(a, b, selector)\r\n   }\r\n\r\n/**\r\n * Creates a comparator comparing values after the primary comparator defined them equal. It uses\r\n * the [selector] function to transform values and then compares them with the given [comparator].\r\n *\r\n * @sample samples.comparisons.Comparisons.thenByWithComparator\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T, K> Comparator<T>.thenBy(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =\r\n   Comparator { a, b ->\r\n   val previousCompare = this@thenBy.compare(a, b)\r\n   if (previousCompare != 0) previousCompare else compareValuesBy(a, b, comparator, selector)\r\n   }\r\n\r\n/**\r\n * Creates a descending comparator using the primary comparator and\r\n * the function to transform value to a [Comparable] instance for comparison.\r\n *\r\n * @sample samples.comparisons.Comparisons.thenByDescending\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> Comparator<T>.thenByDescending(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\r\n   Comparator { a, b ->\r\n   val previousCompare = this@thenByDescending.compare(a, b)\r\n   if (previousCompare != 0) previousCompare else compareValuesBy(b, a, selector)\r\n   }\r\n\r\n/**\r\n * Creates a descending comparator comparing values after the primary comparator defined them equal. It uses\r\n * the [selector] function to transform values and then compares them with the given [comparator].\r\n *\r\n * @sample samples.comparisons.Comparisons.thenByDescendingWithComparator\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T, K> Comparator<T>.thenByDescending(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =\r\n   Comparator { a, b ->\r\n   val previousCompare = this@thenByDescending.compare(a, b)\r\n   if (previousCompare != 0) previousCompare else compareValuesBy(b, a, comparator, selector)\r\n   }\r\n\r\n\r\n/**\r\n * Creates a comparator using the primary comparator and function to calculate a result of comparison.\r\n *\r\n * @sample samples.comparisons.Comparisons.thenComparator\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> Comparator<T>.thenComparator(crossinline comparison: (a: T, b: T) -> Int): Comparator<T> =\r\n   Comparator { a, b ->\r\n   val previousCompare = this@thenComparator.compare(a, b)\r\n   if (previousCompare != 0) previousCompare else comparison(a, b)\r\n   }\r\n\r\n/**\r\n * Combines this comparator and the given [comparator] such that the latter is applied only\r\n * when the former considered values equal.\r\n *\r\n * @sample samples.comparisons.Comparisons.then\r\n */\r\npublic infix fun <T> Comparator<T>.then(comparator:

Comparator<in T>): Comparator<T> =\r\n   Comparator { a, b ->\r\n   val previousCompare = this@then.compare(a, b)\r\n   if (previousCompare != 0) previousCompare else comparator.compare(a, b)\r\n   }\r\n\r\n/**\r\n * Combines this comparator and the given [comparator] such that the latter is applied only\r\n * when the former considered values equal.\r\n *\r\n * @sample samples.comparisons.Comparisons.thenDescending\r\n */\r\npublic infix fun <T> Comparator<T>.thenDescending(comparator: Comparator<in T>): Comparator<T> =\r\n   Comparator<T> { a, b ->\r\n   val previousCompare = this@thenDescending.compare(a, b)\r\n   if (previousCompare != 0) previousCompare else comparator.compare(b, a)\r\n   }\r\n\r\n// Not so useful without type inference for receiver of expression\r\n/**\r\n * Extends the given [comparator] of non-nullable values to a comparator of nullable values\r\n * considering `null` value less than any other value.\r\n *\r\n * @sample samples.comparisons.Comparisons.nullsFirstLastWithComparator\r\n */\r\npublic fun <T : Any> nullsFirst(comparator: Comparator<in T>): Comparator<T?> =\r\n   Comparator { a, b ->\r\n   when {\r\n   a === b -> 0\r\n   a == null -> -1\r\n   b == null -> 1\r\n   else -> comparator.compare(a, b)\r\n   }\r\n   }\r\n\r\n/**\r\n * Provides a comparator of nullable [Comparable] values\r\n * considering `null` value less than any other value.\r\n *\r\n * @sample samples.comparisons.Comparisons.nullsFirstLastComparator\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T : Comparable<T>> nullsFirst(): Comparator<T?> = nullsFirst(naturalOrder())\r\n\r\n/**\r\n * Extends the given [comparator] of non-nullable values to a comparator of nullable values\r\n * considering `null` value greater than any other value.\r\n *\r\n * @sample samples.comparisons.Comparisons.nullsFirstLastWithComparator\r\n */\r\npublic fun <T : Any> nullsLast(comparator: Comparator<in T>): Comparator<T?> =\r\n   Comparator { a, b ->\r\n   when {\r\n   a === b -> 0\r\n   a == null -> 1\r\n   b == null -> -1\r\n   else -> comparator.compare(a, b)\r\n   }\r\n   }\r\n\r\n/**\r\n * Provides a comparator of nullable [Comparable] values\r\n * considering `null` value greater than any other value.\r\n *\r\n * @sample samples.comparisons.Comparisons.nullsFirstLastComparator\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T : Comparable<T>> nullsLast(): Comparator<T?> = nullsLast(naturalOrder())\r\n\r\n/**\r\n * Returns a comparator that compares [Comparable] objects in natural order.\r\n *\r\n * @sample samples.comparisons.Comparisons.naturalOrderComparator\r\n */\r\npublic fun <T : Comparable<T>> naturalOrder(): Comparator<T> = @Suppress(\"UNCHECKED_CAST\") (NaturalOrderComparator as Comparator<T>)\r\n\r\n/**\r\n * Returns a comparator that compares [Comparable] objects in reversed natural order.\r\n *\r\n * @sample samples.comparisons.Comparisons.nullsFirstLastWithComparator\r\n */\r\npublic fun <T : Comparable<T>> reverseOrder(): Comparator<T> = @Suppress(\"UNCHECKED_CAST\") (ReverseOrderComparator as Comparator<T>)\r\n\r\n/**\r\n * Returns a comparator that imposes the reverse ordering of this comparator.\r\n *\r\n * @sample samples.comparisons.Comparisons.reversed\r\n */\r\npublic fun <T> Comparator<T>.reversed(): Comparator<T> = when (this) {\r\n   is ReversedComparator -> this.comparator\r\n   NaturalOrderComparator -> @Suppress(\"UNCHECKED_CAST\") (ReverseOrderComparator as Comparator<T>)\r\n   ReverseOrderComparator -> @Suppress(\"UNCHECKED_CAST\") (NaturalOrderComparator as Comparator<T>)\r\n   else -> ReversedComparator(this)\r\n}\r\n\r\n\r\n\r\nprivate class ReversedComparator<T>(public val comparator: Comparator<T>) : Comparator<T> {\r\n   override fun compare(a: T, b: T): Int = comparator.compare(b, a)\r\n   @Suppress(\"VIRTUAL_MEMBER_HIDDEN\")\r\n   fun reversed(): Comparator<T> = comparator\r\n}\r\n\r\n\r\nprivate object NaturalOrderComparator : Comparator<Comparable<Any>> {\r\n   override fun compare(a: Comparable<Any>, b: Comparable<Any>): Int = a.compareTo(b)\r\n   @Suppress(\"VIRTUAL_MEMBER_HIDDEN\")\r\n   fun reversed(): Comparator<Comparable<Any>> = ReverseOrderComparator\r\n}\r\n\r\n\r\nprivate object ReverseOrderComparator : Comparator<Comparable<Any>> {\r\n   override fun compare(a: Comparable<Any>, b: Comparable<Any>): Int = b.compareTo(a)\r\n   @Suppress(\"VIRTUAL_MEMBER_HIDDEN\")\r\n   fun reversed(): Comparator<Comparable<Any>> = NaturalOrderComparator\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin\r\n\r\n\r\n\r\npublic actual

interface Comparator<T> {\r\n   @JsName(\"compare\")\r\n   actual fun compare(a: T, b: T): Int\r\n}\r\n\r\npublic actual inline fun <T> Comparator(crossinline comparison: (a: T, b: T) -> Int): Comparator<T> = object : Comparator<T> {\r\n   override fun compare(a: T, b: T): Int = comparison(a, b)\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"StandardKt\")\r\npackage kotlin\r\n\r\nimport kotlin.contracts.*\r\n\r\n/**\r\n * An exception is thrown to indicate that a method body remains to be implemented.\r\n */\r\npublic class NotImplementedError(message: String = \"An operation is not implemented.\") : Error(message)\r\n\r\n/**\r\n * Always throws [NotImplementedError] stating that operation is not implemented.\r\n */\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun TODO(): Nothing = throw NotImplementedError()\r\n\r\n/**\r\n * Always throws [NotImplementedError] stating that operation is not implemented.\r\n *\r\n * @param reason a string explaining why the implementation is missing.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun TODO(reason: String): Nothing = throw NotImplementedError(\"An operation is not implemented: $reason\")\r\n\r\n\r\n\r\n/**\r\n * Calls the specified function [block] and returns its result.\r\n *\r\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#run).\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <R> run(block: () -> R): R {\r\n   contract {\r\n   callsInPlace(block, InvocationKind.EXACTLY_ONCE)\r\n   }\r\n   return block()\r\n}\r\n\r\n/**\r\n * Calls the specified function [block] with `this` value as its receiver and returns its result.\r\n *\r\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#run).\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T, R> T.run(block: T.() -> R): R {\r\n   contract {\r\n   callsInPlace(block, InvocationKind.EXACTLY_ONCE)\r\n   }\r\n   return block()\r\n}\r\n\r\n/**\r\n * Calls the specified function [block] with the given [receiver] as its receiver and returns its result.\r\n *\r\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#with).\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T, R> with(receiver: T, block: T.() -> R): R {\r\n   contract {\r\n   callsInPlace(block, InvocationKind.EXACTLY_ONCE)\r\n   }\r\n   return receiver.block()\r\n}\r\n\r\n/**\r\n * Calls the specified function [block] with `this` value as its receiver and returns `this` value.\r\n *\r\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#apply).\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> T.apply(block: T.() -> Unit): T {\r\n   contract {\r\n   callsInPlace(block, InvocationKind.EXACTLY_ONCE)\r\n   }\r\n   block()\r\n   return this\r\n}\r\n\r\n/**\r\n * Calls the specified function [block] with `this` value as its argument and returns `this` value.\r\n *\r\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#also).\r\n */\r\n@kotlin.internal.InlineOnly\r\n@SinceKotlin(\"1.1\")\r\npublic inline fun <T> T.also(block: (T) -> Unit): T {\r\n   contract {\r\n   callsInPlace(block, InvocationKind.EXACTLY_ONCE)\r\n   }\r\n   block(this)\r\n   return this\r\n}\r\n\r\n/**\r\n * Calls the specified function [block] with `this` value as its argument and returns its result.\r\n *\r\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#let).\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T, R> T.let(block: (T) -> R): R {\r\n   contract {\r\n   callsInPlace(block, InvocationKind.EXACTLY_ONCE)\r\n   }\r\n   return block(this)\r\n}\r\n\r\n/**\r\n * Returns `this` value if it satisfies the given [predicate] or `null`, if it doesn't.\r\n */\r\n@kotlin.internal.InlineOnly\r\n@SinceKotlin(\"1.1\")\r\npublic inline fun <T> T.takeIf(predicate: (T) -> Boolean): T? {\r\n   contract {\r\n   callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)\r\n   }\r\n   return if (predicate(this)) this else null\r\n}\r\n\r\n/**\r\n * Returns `this` value if it _does not_ satisfy the given [predicate] or `null`, if it does.\r\n */\r\n@kotlin.internal.InlineOnly\r\n@SinceKotlin(\"1.1\")\r\npublic inline fun <T> T.takeUnless(predicate: (T) -> Boolean): T? {\r\n   contract {\r\n   callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)\r\n   }\r\n   return if (!predicate(this)) this else null\r\n}\r\n\r\n/**\r\n *

Executes the given function [action] specified number of [times].\r\n *\r\n * A zero-based index of current iteration is passed as a parameter to [action].\r\n *\r\n * @sample samples.misc.ControlFlow.repeat\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun repeat(times: Int, action: (Int) -> Unit) {\r\n contract { callsInPlace(action) }\r\n\r\n for (index in 0 until times) {\r\n action(index)\r\n }\r\n}\r\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.comparisons\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.js.*\n\n/**\n * Returns the greater of two values.\n * If values are equal, returns the first one.\n */\n@SinceKotlin(\"1.1\")\npublic actual fun <T : Comparable<T>> maxOf(a: T, b: T): T {\n return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun maxOf(a: Byte, b: Byte): Byte {\n return Math.max(a.toInt(), b.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun maxOf(a: Short, b: Short): Short {\n return Math.max(a.toInt(), b.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun maxOf(a: Int, b: Int): Int {\n return Math.max(a, b)\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@Suppress(\"DEPRECATION_ERROR\", \"NOTHING_TO_INLINE\")\npublic actual inline fun maxOf(a: Long, b: Long): Long {\n return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun maxOf(a: Float, b: Float): Float {\n return Math.max(a, b)\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun maxOf(a: Double, b: Double): Double {\n return Math.max(a, b)\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\npublic actual fun <T : Comparable<T>> maxOf(a: T, b: T, c: T): T {\n return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun maxOf(a: Byte, b: Byte, c: Byte): Byte {\n return Math.max(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun maxOf(a: Short, b: Short, c: Short): Short {\n return Math.max(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun maxOf(a: Int, b: Int, c: Int): Int {\n return Math.max(a, b, c)\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Long, b: Long, c: Long): Long {\n return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun maxOf(a: Float, b: Float, c: Float): Float {\n return Math.max(a, b, c)\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun maxOf(a: Double, b: Double, c: Double): Double {\n return Math.max(a, b, c)\n}\n\n/**\n * Returns the smaller of two values.\n * If values are equal, returns the first one.\n */\n@SinceKotlin(\"1.1\")\npublic actual fun <T : Comparable<T>> minOf(a: T, b: T): T {\n return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual

inline fun minOf(a: Byte, b: Byte): Byte {\n   return Math.min(a.toInt(), b.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun minOf(a: Short, b: Short): Short {\n   return Math.min(a.toInt(), b.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun minOf(a: Int, b: Int): Int {\n   return Math.min(a, b)\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@Suppress(\"DEPRECATION_ERROR\", \"NOTHING_TO_INLINE\")\npublic actual inline fun minOf(a: Long, b: Long): Long {\n   return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun minOf(a: Float, b: Float): Float {\n   return Math.min(a, b)\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun minOf(a: Double, b: Double): Double {\n   return Math.min(a, b)\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\npublic actual fun <T : Comparable<T>> minOf(a: T, b: T, c: T): T {\n return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun minOf(a: Byte, b: Byte, c: Byte): Byte {\n   return Math.min(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun minOf(a: Short, b: Short, c: Short): Short {\n   return Math.min(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun minOf(a: Int, b: Int, c: Int): Int {\n   return Math.min(a, b, c)\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Long, b: Long, c: Long): Long {\n   return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun minOf(a: Float, b: Float, c: Float): Float {\n   return Math.min(a, b, c)\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun minOf(a: Double, b: Double, c: Double): Double {\n   return Math.min(a, b, c)\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"CollectionsKt\")\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns 1st *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component1(): T {\n   return get(0)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component2(): T {\n   return get(1)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component3(): T {\n   return get(2)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component4(): T {\n   return get(3)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component5(): T {\n   return get(4)\n}\n\n/**\n * Returns `true` if [element] is found in the collection.\n */\npublic operator fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.contains(element: T): Boolean {\n   if (this is Collection)\n return contains(element)\n   return indexOf(element) >= 0\n}\n\n/**\n * Returns an element at the given [index] or

throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this collection.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic fun <T> Iterable<T>.elementAt(index: Int): T {\n if (this is List)\n return get(index)\n return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"Collection doesn't contain element at index $index.\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this list.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.elementAt(index: Int): T {\n return get(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this collection.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\npublic fun <T> Iterable<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n if (this is List)\n return this.getOrElse(index, defaultValue)\n if (index < 0)\n return defaultValue(index)\n val iterator = iterator()\n var count = 0\n while (iterator.hasNext()) {\n val element = iterator.next()\n if (index == count++)\n return element\n }\n return defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this list.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this collection.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\npublic fun <T> Iterable<T>.elementAtOrNull(index: Int): T? {\n if (this is List)\n return this.getOrNull(index)\n if (index < 0)\n return null\n val iterator = iterator()\n var count = 0\n while (iterator.hasNext()) {\n val element = iterator.next()\n if (index == count++)\n return element\n }\n return null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this list.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.elementAtOrNull(index: Int): T? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.find(predicate: (T) -> Boolean): T? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.findLast(predicate: (T) -> Boolean): T? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.findLast(predicate: (T) -> Boolean): T? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the collection is empty.\n */\npublic fun <T> Iterable<T>.first(): T {\n when (this) {\n is List -> return this.first()\n else -> {\n val iterator = iterator()\n if (!iterator.hasNext())\n throw NoSuchElementException(\"Collection is empty.\")\n return iterator.next()\n }\n }\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the list is empty.\n */\npublic fun <T> List<T>.first(): T {\n if (isEmpty())\n throw NoSuchElementException(\"List is empty.\")\n return this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun <T> Iterable<T>.first(predicate: (T) -> Boolean): T {\n for (element in this) if (predicate(element)) return element\n throw NoSuchElementException(\"Collection contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element, or `null` if the collection is empty.\n */\npublic fun <T> Iterable<T>.firstOrNull(): T? {\n when (this) {\n is List -> {\n if (isEmpty())\n return null\n else\n return this[0]\n }\n else -> {\n val iterator = iterator()\n if (!iterator.hasNext())\n return null\n return iterator.next()\n }\n }\n}\n\n/**\n * Returns the first element, or `null` if the list is empty.\n */\npublic fun <T> List<T>.firstOrNull(): T? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun <T> Iterable<T>.firstOrNull(predicate: (T) -> Boolean): T? {\n for (element in this) if (predicate(element)) return

element\n   return null\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this list.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.getOrElse(index: Int, defaultValue: (Int) -> T): T {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this list.\n */\npublic fun <T> List<T>.getOrNull(index: Int): T? {\n   return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns first index of [element], or -1 if the collection does not contain element.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.indexOf(element: T): Int {\n   if (this is List) return this.indexOf(element)\n   var index = 0\n   for (item in this) {\n   checkIndexOverflow(index)\n   if (element == item)\n   return index\n   index++\n   }\n   return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the list does not contain element.\n */\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\") // false warning, extension takes precedence in some cases\npublic fun <@kotlin.internal.OnlyInputTypes T> List<T>.indexOf(element: T): Int {\n   return indexOf(element)\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the collection does not contain such element.\n */\npublic inline fun <T> Iterable<T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n   var index = 0\n   for (item in this) {\n   checkIndexOverflow(index)\n   if (predicate(item))\n   return index\n   index++\n   }\n   return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the list does not contain such element.\n */\npublic inline fun <T> List<T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n   var index = 0\n   for (item in this) {\n   if (predicate(item))\n   return index\n   index++\n   }\n   return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the collection does not contain such element.\n */\npublic inline fun <T> Iterable<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n   var lastIndex = -1\n   var index = 0\n   for (item in this) {\n   checkIndexOverflow(index)\n   if (predicate(item))\n   lastIndex = index\n   index++\n   }\n   return lastIndex\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the list does not contain such element.\n */\npublic inline fun <T> List<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n   val iterator = this.listIterator(size)\n   while (iterator.hasPrevious()) {\n   if (predicate(iterator.previous())) {\n   return iterator.nextIndex()\n   }\n   }\n   return -1\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the collection is empty.\n */\npublic fun <T> Iterable<T>.last(): T {\n   when (this) {\n   is List -> return this.last()\n   else -> {\n   val iterator = iterator()\n   if (!iterator.hasNext())\n   throw NoSuchElementException(\"Collection is empty.\")\n   var last = iterator.next()\n   while (iterator.hasNext())\n   last = iterator.next()\n   return last\n   }\n   }\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the list is empty.\n */\npublic fun <T> List<T>.last(): T {\n   if (isEmpty())\n   throw NoSuchElementException(\"List is empty.\")\n   return this[lastIndex]\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun <T> Iterable<T>.last(predicate: (T) -> Boolean): T {\n   var last: T? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   last = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Collection contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return last as T\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun <T> List<T>.last(predicate: (T) -> Boolean): T {\n   val iterator = this.listIterator(size)\n   while (iterator.hasPrevious()) {\n   val element = iterator.previous()\n   if (predicate(element)) return element\n   }\n   throw NoSuchElementException(\"List contains no element matching the predicate.\")\n}\n\n/**\n * Returns last index of [element], or -1 if the collection does not contain element.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.lastIndexOf(element: T): Int {\n   if (this is List) return this.lastIndexOf(element)\n   var lastIndex = -1\n   var index = 0\n   for (item in this) {\n   checkIndexOverflow(index)\n   if (element == item)\n   lastIndex = index\n   index++\n   }\n   return lastIndex\n}\n\n/**\n * Returns last index of [element], or -1 if the list does not contain element.\n */\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\") // false warning, extension takes precedence in some cases\npublic fun <@kotlin.internal.OnlyInputTypes T> List<T>.lastIndexOf(element: T): Int {\n   return

```
lastIndexOf(element)\n}\n\n/**\n * Returns the last element, or `null` if the collection is empty.\n */\npublic fun <T> Iterable<T>.lastOrNull(): T? {\n    when (this) {\n        is List -> return if (isEmpty()) null else this[size - 1]\n        else -> {\n            val iterator = iterator()\n            if (!iterator.hasNext())\n                return null\n            var last = iterator.next()\n            while (iterator.hasNext())\n                last = iterator.next()\n            return last\n        }\n    }\n}\n\n/**\n * Returns the last element, or `null` if the list is empty.\n */\npublic fun <T> List<T>.lastOrNull(): T? {\n    return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun <T> Iterable<T>.lastOrNull(predicate: (T) -> Boolean): T? {\n    var last: T? = null\n    for (element in this) {\n        if (predicate(element)) {\n            last = element\n        }\n    }\n    return last\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun <T> List<T>.lastOrNull(predicate: (T) -> Boolean): T? {\n    val iterator = this.listIterator(size)\n    while (iterator.hasPrevious()) {\n        val element = iterator.previous()\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns a random element from this collection.\n * \n * @throws NoSuchElementException if this collection is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.random(): T {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this collection using the specified source of randomness.\n * \n * @throws NoSuchElementException if this collection is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun <T> Collection<T>.random(random: Random): T {\n    if (isEmpty())\n        throw NoSuchElementException(\"Collection is empty.\")\n    return elementAt(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the collection is empty or has more than one element.\n */\npublic fun <T> Iterable<T>.single(): T {\n    when (this) {\n        is List -> return this.single()\n        else -> {\n            val iterator = iterator()\n            if (!iterator.hasNext())\n                throw NoSuchElementException(\"Collection is empty.\")\n            val single = iterator.next()\n            if (iterator.hasNext())\n                throw IllegalArgumentException(\"Collection has more than one element.\")\n            return single\n        }\n    }\n}\n\n/**\n * Returns the single element, or throws an exception if the list is empty or has more than one element.\n */\npublic fun <T> List<T>.single(): T {\n    return when (size) {\n        0 -> throw NoSuchElementException(\"List is empty.\")\n        1 -> this[0]\n        else -> throw IllegalArgumentException(\"List has more than one element.\")\n    }\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun <T> Iterable<T>.single(predicate: (T) -> Boolean): T {\n    var single: T? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException(\"Collection contains more than one matching element.\")\n            single = element\n            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException(\"Collection contains no element matching the predicate.\")\n    @Suppress(\"UNCHECKED_CAST\")\n    return single as T\n}\n\n/**\n * Returns single element, or `null` if the collection is empty or has more than one element.\n */\npublic fun <T> Iterable<T>.singleOrNull(): T? {\n    when (this) {\n        is List -> return if (size == 1) this[0] else null\n        else -> {\n            val iterator = iterator()\n            if (!iterator.hasNext())\n                return null\n            val single = iterator.next()\n            if (iterator.hasNext())\n                return null\n            return single\n        }\n    }\n}\n\n/**\n * Returns single element, or `null` if the list is empty or has more than one element.\n */\npublic fun <T> List<T>.singleOrNull(): T? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun <T> Iterable<T>.singleOrNull(predicate: (T) -> Boolean): T? {\n    var single: T? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Iterable<T>.drop(n: Int): List<T> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return toList()\n    val list: ArrayList<T>\n    if (this is Collection<*>) {\n        val resultSize = size - n\n        if (resultSize <= 0)\n            return emptyList()\n        if (resultSize == 1)\n            return listOf(last())\n        list = ArrayList<T>(resultSize)\n
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 if (this is List<T>) {\n            if (this is RandomAccess) {\n                for (index in n until size)\n
list.add(this[index])\n            } else {\n                for (item in listIterator(n))\n                    list.add(item)\n            }\n
        return list\n        }\n    }\n    else {\n        list = ArrayList<T>()\n    }\n    var count = 0\n    for (item in this) {\n
 if (count >= n) list.add(item) else ++count\n    }\n    return list.optimizeReadOnlyList()\n}\n\n/**\n * Returns a list
containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n *
\n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> List<T>.dropLast(n: Int):
List<T> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun <T>
List<T>.dropLastWhile(predicate: (T) -> Boolean): List<T> {\n    if (!isEmpty()) {\n        val iterator =
listIterator(size)\n        while (iterator.hasPrevious()) {\n            if (!predicate(iterator.previous())) {\n                return
take(iterator.nextIndex() + 1)\n            }\n        }\n    }\n    return emptyList()\n}\n\n/**\n * Returns a list containing
all elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic inline fun <T> Iterable<T>.dropWhile(predicate:
(T) -> Boolean): List<T> {\n    var yielding = false\n    val list = ArrayList<T>()\n    for (item in this)\n        if
(yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n            list.add(item)\n            yielding = true\n
 }\n    return list\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\npublic
inline fun <T> Iterable<T>.filter(predicate: (T) -> Boolean): List<T> {\n    return filterTo(ArrayList<T>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param
[predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate
evaluation on the element.\n */\npublic inline fun <T> Iterable<T>.filterIndexed(predicate: (index: Int, T) ->
Boolean): List<T> {\n    return filterIndexedTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Appends all elements
matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an
element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline
fun <T, C : MutableCollection<in T>> Iterable<T>.filterIndexedTo(destination: C, predicate: (index: Int, T) ->
Boolean): C {\n    forEachIndexed { index, element ->\n        if (predicate(index, element))
destination.add(element)\n    }\n    return destination\n}\n\n/**\n * Returns a list containing all elements that are
instances of specified type parameter R.\n */\npublic inline fun <reified R> Iterable<*>.filterIsInstance():
List<@kotlin.internal.NoInfer R> {\n    return filterIsInstanceTo(ArrayList<R>())\n}\n\n/**\n * Appends all
elements that are instances of specified type parameter R to the given [destination].\n */\npublic inline fun <reified
R, C : MutableCollection<in R>> Iterable<*>.filterIsInstanceTo(destination: C): C {\n    for (element in this) if
(element is R) destination.add(element)\n    return destination\n}\n\n/**\n * Returns a list containing all elements
not matching the given [predicate].\n */\npublic inline fun <T> Iterable<T>.filterNot(predicate: (T) -> Boolean):
List<T> {\n    return filterNotTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing all elements that
are not `null`.\n */\npublic fun <T : Any> Iterable<T?>.filterNotNull(): List<T> {\n    return
filterNotNullTo(ArrayList<T>())\n}\n\n/**\n * Appends all elements that are not `null` to the given [destination].\n
*/\npublic fun <C : MutableCollection<in T>, T : Any> Iterable<T?>.filterNotNullTo(destination: C): C {\n    for
(element in this) if (element != null) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all
elements not matching the given [predicate] to the given [destination].\n */\npublic inline fun <T, C :
MutableCollection<in T>> Iterable<T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C {\n    for (element
in this) if (!predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all elements
matching the given [predicate] to the given [destination].\n */\npublic inline fun <T, C : MutableCollection<in T>>
Iterable<T>.filterTo(destination: C, predicate: (T) -> Boolean): C {\n    for (element in this) if (predicate(element))
destination.add(element)\n    return destination\n}\n\n/**\n * Returns a list containing elements at indices in the
specified [indices] range.\n */\npublic fun <T> List<T>.slice(indices: IntRange): List<T> {\n    if
(indices.isEmpty()) return listOf()\n    return this.subList(indices.start, indices.endInclusive + 1).toList()\n}\n\n/**\n
* Returns a list containing elements at specified [indices].\n */\npublic fun <T> List<T>.slice(indices:
Iterable<Int>): List<T> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n
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val list = ArrayList<T>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun <T> Iterable<T>.take(n: Int): List<T> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (this is Collection<T>) {\n        if (n >= size) return toList()\n        if (n == 1) return listOf(first())\n    }\n    var count = 0\n    val list = ArrayList<T>(n)\n    for (item in this) {\n        if (count++ == n)\n            break\n        list.add(item)\n    }\n    return list.optimizeReadOnlyList()\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun <T> List<T>.takeLast(n: Int): List<T> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(last())\n    val list = ArrayList<T>(n)\n    if (this is RandomAccess) {\n        for (index in size - n until size)\n            list.add(this[index])\n    } else {\n        for (item in listIterator(size - n))\n            list.add(item)\n    }\n    return list\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun <T> List<T>.takeLastWhile(predicate: (T) -> Boolean): List<T> {\n    if (isEmpty())\n        return emptyList()\n    val iterator = listIterator(size)\n    while (iterator.hasPrevious()) {\n        if (!predicate(iterator.previous())) {\n            iterator.next()\n            val expectedSize = size - iterator.nextIndex()\n            if (expectedSize == 0) return emptyList()\n            return ArrayList<T>(expectedSize).apply {\n                while (iterator.hasNext())\n                    add(iterator.next())\n            }\n        }\n    }\n    return toList()\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun <T> Iterable<T>.takeWhile(predicate: (T) -> Boolean): List<T> {\n    val list = ArrayList<T>()\n    for (item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Reverses elements in the list in-place.\n */\npublic expect fun <T> MutableList<T>.reverse(): Unit\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun <T> Iterable<T>.reversed(): List<T> {\n    if (this is Collection && size <= 1) return toList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Sorts elements in the list in-place according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>> MutableList<T>.sortBy(crossinline selector: (T) -> R?): Unit {\n    if (size > 1) sortWith(compareBy(selector))\n}\n\n/**\n * Sorts elements in the list in-place descending according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>> MutableList<T>.sortByDescending(crossinline selector: (T) -> R?): Unit {\n    if (size > 1) sortWith(compareByDescending(selector))\n}\n\n/**\n * Sorts elements in the list in-place descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> MutableList<T>.sortDescending(): Unit {\n    sortWith(reverseOrder())\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Iterable<T>.sorted(): List<T> {\n    if (this is Collection) {\n        if (size <= 1) return this.toList()\n        @Suppress(\"UNCHECKED_CAST\")\n        return (toTypedArray<Comparable<T>>() as Array<T>).apply { sort() }.asList()\n    }\n    return toMutableList().apply { sort() }\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>> Iterable<T>.sortedBy(crossinline selector: (T) -> R?): List<T> {\n    return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>> Iterable<T>.sortedByDescending(crossinline selector: (T) -> R?): List<T> {\n    return
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sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Iterable<T>.sortedDescending(): List<T> {\n   return sortedWith(reverseOrder())\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T> Iterable<T>.sortedWith(comparator: Comparator<in T>): List<T> {\n   if (this is Collection) {\n   if (size <= 1) return this.toList()\n   @Suppress(\"UNCHECKED_CAST\")\n   return (toTypedArray<Any?>() as Array<T>).apply { sortWith(comparator) }.asList()\n   }\n   return toMutableList().apply { sortWith(comparator) }\n}\n\n/**\n * Returns an array of Boolean containing all of the elements of this collection.\n */\npublic fun Collection<Boolean>.toBooleanArray(): BooleanArray {\n   val result = BooleanArray(size)\n   var index = 0\n   for (element in this)\n   result[index++] = element\n   return result\n}\n\n/**\n * Returns an array of Byte containing all of the elements of this collection.\n */\npublic fun Collection<Byte>.toByteArray(): ByteArray {\n   val result = ByteArray(size)\n   var index = 0\n   for (element in this)\n   result[index++] = element\n   return result\n}\n\n/**\n * Returns an array of Char containing all of the elements of this collection.\n */\npublic fun Collection<Char>.toCharArray(): CharArray {\n   val result = CharArray(size)\n   var index = 0\n   for (element in this)\n   result[index++] = element\n   return result\n}\n\n/**\n * Returns an array of Double containing all of the elements of this collection.\n */\npublic fun Collection<Double>.toDoubleArray(): DoubleArray {\n   val result = DoubleArray(size)\n   var index = 0\n   for (element in this)\n   result[index++] = element\n   return result\n}\n\n/**\n * Returns an array of Float containing all of the elements of this collection.\n */\npublic fun Collection<Float>.toFloatArray(): FloatArray {\n   val result = FloatArray(size)\n   var index = 0\n   for (element in this)\n   result[index++] = element\n   return result\n}\n\n/**\n * Returns an array of Int containing all of the elements of this collection.\n */\npublic fun Collection<Int>.toIntArray(): IntArray {\n   val result = IntArray(size)\n   var index = 0\n   for (element in this)\n   result[index++] = element\n   return result\n}\n\n/**\n * Returns an array of Long containing all of the elements of this collection.\n */\npublic fun Collection<Long>.toLongArray(): LongArray {\n   val result = LongArray(size)\n   var index = 0\n   for (element in this)\n   result[index++] = element\n   return result\n}\n\n/**\n * Returns an array of Short containing all of the elements of this collection.\n */\npublic fun Collection<Short>.toShortArray(): ShortArray {\n   val result = ShortArray(size)\n   var index = 0\n   for (element in this)\n   result[index++] = element\n   return result\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given collection.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original collection.\n */\npublic inline fun <T, K, V> Iterable<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing the elements from the given collection indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original collection.\n */\npublic inline fun <T, K> Iterable<T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n   val capacity = mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, T>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given collection.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original collection.\n */\npublic inline fun <T, K, V> Iterable<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n   val capacity = mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given collection\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by

[keySelector] the last one gets added to the map.\n */\npublic inline fun <T, K, M : MutableMap<in K, in T>> Iterable<T>.associateByTo(destination: M, keySelector: (T) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given collection.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Iterable<T>.associateByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given collection.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Iterable<T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Returns a [Map] where keys are elements from the given collection and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original collection.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n */\n@SinceKotlin(\"1.3\")\npublic inline fun <K, V> Iterable<K>.associateWith(valueSelector: (K) -> V): Map<K, V> {\n val result = LinkedHashMap<K, V>(mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given collection,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n */\n@SinceKotlin(\"1.3\")\npublic inline fun <K, V, M : MutableMap<in K, in V>> Iterable<K>.associateWithTo(destination: M, valueSelector: (K) -> V): M {\n for (element in this) {\n destination.put(element, valueSelector(element))\n }\n return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <T, C : MutableCollection<in T>> Iterable<T>.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Returns a [HashSet] of all elements.\n */\npublic fun <T> Iterable<T>.toHashSet(): HashSet<T> {\n return toCollection(HashSet<T>(mapCapacity(collectionSizeOrDefault(12))))\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun <T> Iterable<T>.toList(): List<T> {\n if (this is Collection) {\n return when (size) {\n 0 -> emptyList()\n 1 -> listOf(if (this is List) get(0) else iterator().next())\n else -> this.toMutableList()\n }\n }\n return this.toMutableList().optimizeReadOnlyList()\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this collection.\n */\npublic fun <T> Iterable<T>.toMutableList(): MutableList<T> {\n if (this is Collection<T>)\n return this.toMutableList()\n return toCollection(ArrayList<T>())\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this collection.\n */\npublic fun <T> Collection<T>.toMutableList(): MutableList<T> {\n return ArrayList(this)\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original collection.\n */\npublic fun <T> Iterable<T>.toSet(): Set<T> {\n if (this is Collection) {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(if (this is List) this[0] else iterator().next())\n else -> toCollection(LinkedHashSet<T>(mapCapacity(size)))\n }\n }\n return toCollection(LinkedHashSet<T>()).optimizeReadOnlySet()\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original collection.\n */\npublic inline fun <T, R> Iterable<T>.flatMap(transform: (T) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original collection, to the given [destination].\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.flatMapTo(destination: C, transform: (T) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Groups elements of the original collection by the key returned by the given [keySelector] function\n * applied to each element and

returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original collection.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K> Iterable<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {\n   return groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original collection\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original collection.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V> Iterable<T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements of the original collection by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K, M : MutableMap<in K, MutableList<T>>> Iterable<T>.groupByTo(destination: M, keySelector: (T) -> K): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<T>() }\n   list.add(element)\n   }\n   return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original collection\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> Iterable<T>.groupByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<V>() }\n   list.add(valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Creates a [Grouping] source from a collection to be used later with one of group-and-fold operations\n * using the specified [keySelector] function to extract a key from each element.\n * \n * @sample samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K> Iterable<T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {\n   return object : Grouping<T, K> {\n   override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()\n   override fun keyOf(element: T): K = keySelector(element)\n   }\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original collection.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <T, R> Iterable<T>.map(transform: (T) -> R): List<R> {\n   return mapTo(ArrayList<R>(collectionSizeOrDefault(10)), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original collection.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R> Iterable<T>.mapIndexed(transform: (index: Int, T) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(collectionSizeOrDefault(10)), transform)\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each element and its index in the original collection.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R : Any> Iterable<T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): List<R> {\n   return mapIndexedNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original collection\n * and appends only the non-null results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Iterable<T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {\n   forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }\n   return destination\n}\n\n/**\n *

Applies the given [transform] function to each element and its index in the original collection\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(checkIndexOverflow(index++), item))\n return destination\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each element in the original collection.\n */\npublic inline fun <T, R : Any> Iterable<T>.mapNotNull(transform: (T) -> R?): List<R> {\n return mapNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each element in the original collection\n * and appends only the non-null results to the given [destination].\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Iterable<T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {\n forEach { element -> transform(element)?.let { destination.add(it) } }\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original collection\n * and appends the results to the given [destination].\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.mapTo(destination: C, transform: (T) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original collection\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun <T> Iterable<T>.withIndex(): Iterable<IndexedValue<T>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a list containing only distinct elements from the given collection.\n * \n * The elements in the resulting list are in the same order as they were in the source collection.\n */\npublic fun <T> Iterable<T>.distinct(): List<T> {\n return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only elements from the given collection\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source collection.\n */\npublic inline fun <T, K> Iterable<T>.distinctBy(selector: (T) -> K): List<T> {\n val set = HashSet<K>()\n val list = ArrayList<T>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a set containing all elements that are contained by both this set and the specified collection.\n * \n * The returned set preserves the element iteration order of the original collection.\n */\npublic infix fun <T> Iterable<T>.intersect(other: Iterable<T>): Set<T> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this collection and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original collection.\n */\npublic infix fun <T> Iterable<T>.subtract(other: Iterable<T>): Set<T> {\n val set = this.toMutableSet()\n set.removeAll(other)\n return set\n}\n\n/**\n * Returns a mutable set containing all distinct elements from the given collection.\n * \n * The returned set preserves the element iteration order of the original collection.\n */\npublic fun <T> Iterable<T>.toMutableSet(): MutableSet<T> {\n return when (this) {\n is Collection<T> -> LinkedHashSet(this)\n else -> toCollection(LinkedHashSet<T>())\n }\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original collection.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n */\npublic infix fun <T> Iterable<T>.union(other: Iterable<T>): Set<T> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun <T> Iterable<T>.all(predicate: (T) -> Boolean): Boolean {\n if (this is Collection && isEmpty()) return true\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if collection has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun <T> Iterable<T>.any(): Boolean {\n if (this is Collection) return !isEmpty()\n return iterator().hasNext()\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun <T> Iterable<T>.any(predicate: (T) -> Boolean): Boolean {\n if (this is Collection && isEmpty()) return false\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns the number of elements in

this collection.\n */\npublic fun <T> Iterable<T>.count(): Int {\n if (this is Collection) return size\n var count = 0\n for (element in this) checkCountOverflow(++count)\n return count\n}\n\n/**\n * Returns the number of elements in this collection.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.count(): Int {\n return size\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun <T> Iterable<T>.count(predicate: (T) -> Boolean): Int {\n if (this is Collection && isEmpty()) return 0\n var count = 0\n for (element in this) if (predicate(element)) checkCountOverflow(++count)\n return count\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <T, R> Iterable<T>.fold(initial: R, operation: (acc: R, T) -> R): R {\n var accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original collection.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <T, R> Iterable<T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(checkIndexOverflow(index++), accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun <T, R> List<T>.foldRight(initial: R, operation: (T, acc: R) -> R): R {\n var accumulator = initial\n if (!isEmpty()) {\n val iterator = listIterator(size)\n while (iterator.hasPrevious()) {\n accumulator = operation(iterator.previous(), accumulator)\n }\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original list and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <T, R> List<T>.foldRightIndexed(initial: R, operation: (index: Int, T, acc: R) -> R): R {\n var accumulator = initial\n if (!isEmpty()) {\n val iterator = listIterator(size)\n while (iterator.hasPrevious()) {\n val index = iterator.previousIndex()\n accumulator = operation(index, iterator.previous(), accumulator)\n }\n }\n return accumulator\n}\n\n/**\n * Performs the given [action] on each element.\n */\n@kotlin.internal.HidesMembers\npublic inline fun <T> Iterable<T>.forEach(action: (T) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\npublic inline fun <T> Iterable<T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {\n var index = 0\n for (item in this) action(checkIndexOverflow(index++), item)\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\npublic fun Iterable<Double>.max(): Double? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var max = iterator.next()\n if (max.isNaN()) return max\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (e.isNaN()) return e\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\npublic fun Iterable<Float>.max(): Float? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var max = iterator.next()\n if (max.isNaN()) return max\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (e.isNaN()) return e\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\npublic fun <T : Comparable<T>> Iterable<T>.max(): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var max = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <T, R : Comparable<R>> Iterable<T>.maxBy(selector: (T) -> R): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var maxElem = iterator.next()\n if (!iterator.hasNext()) return maxElem\n var maxValue = selector(maxElem)\n do {\n val e = iterator.next()\n val v = selector(e)\n if (maxValue <

v) {\n maxElem = e\n maxValue = v\n }\n } while (iterator.hasNext())\n return maxElem\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun <T> Iterable<T>.maxWith(comparator: Comparator<in T>): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var max = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\npublic fun Iterable<Double>.min(): Double? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var min = iterator.next()\n if (min.isNaN()) return min\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (e.isNaN()) return e\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\npublic fun Iterable<Float>.min(): Float? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var min = iterator.next()\n if (min.isNaN()) return min\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (e.isNaN()) return e\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\npublic fun <T : Comparable<T>> Iterable<T>.min(): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var min = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <T, R : Comparable<R>> Iterable<T>.minBy(selector: (T) -> R): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var minElem = iterator.next()\n if (!iterator.hasNext()) return minElem\n var minValue = selector(minElem)\n do {\n val e = iterator.next()\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n } while (iterator.hasNext())\n return minElem\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun <T> Iterable<T>.minWith(comparator: Comparator<in T>): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var min = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns `true` if the collection has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun <T> Iterable<T>.none(): Boolean {\n if (this is Collection) return isEmpty()\n return !iterator().hasNext()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun <T> Iterable<T>.none(predicate: (T) -> Boolean): Boolean {\n if (this is Collection && isEmpty()) return true\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Performs the given [action] on each element and returns the collection itself afterwards.\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, C : Iterable<T>> C.onEach(action: (T) -> Unit): C {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <S, T : S> Iterable<T>.reduce(operation: (acc: S, T) -> S): S {\n val iterator = this.iterator()\n if (!iterator.hasNext()) throw UnsupportedOperationException(\"Empty collection can't be reduced.\")\n var accumulator: S = iterator.next()\n while (iterator.hasNext()) {\n accumulator = operation(accumulator, iterator.next())\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original collection.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\npublic inline fun <S, T : S> Iterable<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n val iterator = this.iterator()\n if (!iterator.hasNext()) throw UnsupportedOperationException(\"Empty collection can't be reduced.\")\n var index = 1\n var accumulator: S = iterator.next()\n while (iterator.hasNext()) {\n accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun

<S, T : S> List<T>.reduceRight(operation: (T, acc: S) -> S): S {\n   val iterator = listIterator(size)\n   if (!iterator.hasPrevious())\n   throw UnsupportedOperationException(\"Empty list can't be reduced.\")\n   var accumulator: S = iterator.previous()\n   while (iterator.hasPrevious()) {\n   accumulator = operation(iterator.previous(), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original list and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <S, T : S> List<T>.reduceRightIndexed(operation: (index: Int, T, acc: S) -> S): S {\n   val iterator = listIterator(size)\n   if (!iterator.hasPrevious())\n   throw UnsupportedOperationException(\"Empty list can't be reduced.\")\n   var accumulator: S = iterator.previous()\n   while (iterator.hasPrevious()) {\n   val index = iterator.previousIndex()\n   accumulator = operation(index, iterator.previous(), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the collection.\n */\npublic inline fun <T> Iterable<T>.sumBy(selector: (T) -> Int): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the collection.\n */\npublic inline fun <T> Iterable<T>.sumByDouble(selector: (T) -> Double): Double {\n   var sum: Double = 0.0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns an original collection containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.\n */\npublic fun <T : Any> Iterable<T?>.requireNoNulls(): Iterable<T> {\n   for (element in this) {\n   if (element == null) {\n   throw IllegalArgumentException(\"null element found in $this.\")\n   }\n   }\n   @Suppress(\"UNCHECKED_CAST\")\n   return this as Iterable<T>\n}\n\n/**\n * Returns an original collection containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.\n */\npublic fun <T : Any> List<T?>.requireNoNulls(): List<T> {\n   for (element in this) {\n   if (element == null) {\n   throw IllegalArgumentException(\"null element found in $this.\")\n   }\n   }\n   @Suppress(\"UNCHECKED_CAST\")\n   return this as List<T>\n}\n\n/**\n * Splits this collection into a list of lists each not exceeding the given [size].\n * \n * The last list in the resulting list may have less elements than the given [size].\n * \n * @param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this collection.\n * \n * @sample samples.collections.Collections.Transformations.chunked\n */\n@SinceKotlin(\"1.2\")\npublic fun <T> Iterable<T>.chunked(size: Int): List<List<T>> {\n   return windowed(size, size, partialWindows = true)\n}\n\n/**\n * Splits this collection into several lists each not exceeding the given [size]\n * and applies the given [transform] function to an each.\n * \n * @return list of results of the [transform] applied to an each list.\n * \n * Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * The last list may have less elements than the given [size].\n * \n * @param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this collection.\n * \n * @sample samples.text.Strings.chunkedTransform\n */\n@SinceKotlin(\"1.2\")\npublic fun <T, R> Iterable<T>.chunked(size: Int, transform: (List<T>) -> R): List<R> {\n   return windowed(size, size, partialWindows = true, transform = transform)\n}\n\n/**\n * Returns a list containing all elements of the original collection without the first occurrence of the given [element].\n */\npublic operator fun <T> Iterable<T>.minus(element: T): List<T> {\n   val result = ArrayList<T>(collectionSizeOrDefault(10))\n   var removed = false\n   return this.filterTo(result) { if (!removed && it == element) { removed = true; false } else true }\n}\n\n/**\n * Returns a list containing all elements of the original collection except the elements contained in the given [elements] array.\n * \n * The [elements] array may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n * a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n */\npublic operator fun <T> Iterable<T>.minus(elements: Array<out T>): List<T> {\n   if (elements.isEmpty()) return this.toList()\n   val other = elements.toHashSet()\n   return this.filterNot { it in other }\n}\n\n/**\n * Returns a list containing all elements of the original collection except the elements contained in the given [elements] collection.\n * \n * The [elements]

collection may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n * a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n */\npublic operator fun <T> Iterable<T>.minus(elements: Iterable<T>): List<T> {\n val other = elements.convertToSetForSetOperationWith(this)\n if (other.isEmpty())\n return this.toList()\n return this.filterNot { it in other }\n}\n\n/**\n * Returns a list containing all elements of the original collection except the elements contained in the given [elements] sequence.\n * \n * The [elements] sequence may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n * a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n */\npublic operator fun <T> Iterable<T>.minus(elements: Sequence<T>): List<T> {\n val other = elements.toHashSet()\n if (other.isEmpty())\n return this.toList()\n return this.filterNot { it in other }\n}\n\n/**\n * Returns a list containing all elements of the original collection without the first occurrence of the given [element].\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minusElement(element: T): List<T> {\n return minus(element)\n}\n\n/**\n * Splits the original collection into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */\npublic inline fun <T> Iterable<T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {\n val first = ArrayList<T>()\n val second = ArrayList<T>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Returns a list containing all elements of the original collection and then the given [element].\n */\npublic operator fun <T> Iterable<T>.plus(element: T): List<T> {\n if (this is Collection) return this.plus(element)\n val result = ArrayList<T>()\n result.addAll(this)\n result.add(element)\n return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then the given [element].\n */\npublic operator fun <T> Collection<T>.plus(element: T): List<T> {\n val result = ArrayList<T>(size + 1)\n result.addAll(this)\n result.add(element)\n return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then all elements of the given [elements] array.\n */\npublic operator fun <T> Iterable<T>.plus(elements: Array<out T>): List<T> {\n if (this is Collection) return this.plus(elements)\n val result = ArrayList<T>()\n result.addAll(this)\n result.addAll(elements)\n return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then all elements of the given [elements] array.\n */\npublic operator fun <T> Collection<T>.plus(elements: Array<out T>): List<T> {\n val result = ArrayList<T>(this.size + elements.size)\n result.addAll(this)\n result.addAll(elements)\n return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then all elements of the given [elements] collection.\n */\npublic operator fun <T> Iterable<T>.plus(elements: Iterable<T>): List<T> {\n if (this is Collection) return this.plus(elements)\n val result = ArrayList<T>()\n result.addAll(this)\n result.addAll(elements)\n return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then all elements of the given [elements] collection.\n */\npublic operator fun <T> Collection<T>.plus(elements: Iterable<T>): List<T> {\n if (elements is Collection) {\n val result = ArrayList<T>(this.size + elements.size)\n result.addAll(this)\n result.addAll(elements)\n return result\n } else {\n val result = ArrayList<T>(this)\n result.addAll(elements)\n return result\n }\n}\n\n/**\n * Returns a list containing all elements of the original collection and then all elements of the given [elements] sequence.\n */\npublic operator fun <T> Iterable<T>.plus(elements: Sequence<T>): List<T> {\n val result = ArrayList<T>()\n result.addAll(this)\n result.addAll(elements)\n return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then all elements of the given [elements] sequence.\n */\npublic operator fun <T> Collection<T>.plus(elements: Sequence<T>): List<T> {\n val result = ArrayList<T>(this.size + 10)\n result.addAll(this)\n result.addAll(elements)\n return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then the given [element].\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.plusElement(element: T): List<T> {\n return plus(element)\n}\n\n/**\n * Returns a list containing all elements of the original collection and then the given [element].\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.plusElement(element: T): List<T> {\n return plus(element)\n}\n\n/**\n * Returns a list of snapshots of the window of the given [size]\n * sliding along this collection with the given [step], where each\n *

snapshot is a list.\n * \n * Several last lists may have less elements than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this collection.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.takeWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun <T> Iterable<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<List<T>> {\n checkWindowSizeStep(size, step)\n if (this is RandomAccess && this is List) {\n val thisSize = this.size\n val result = ArrayList<List<T>>((thisSize + step - 1) / step)\n var index = 0\n while (index < thisSize) {\n val windowSize = size.coerceAtMost(thisSize - index)\n if (windowSize < size && !partialWindows) break\n result.add(List(windowSize) { this[it + index] })\n index += step\n }\n return result\n }\n val result = ArrayList<List<T>>()\n windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = false).forEach {\n result.add(it)\n }\n return result\n}\n\n/**\n * Returns a list of results of applying the given [transform] function to\n * an each list representing a view over the window of the given [size]\n * sliding along this collection with the given [step].\n * \n * Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * Several last lists may have less elements than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this collection.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.averageWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun <T, R> Iterable<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (List<T>) -> R): List<R> {\n checkWindowSizeStep(size, step)\n if (this is RandomAccess && this is List) {\n val thisSize = this.size\n val result = ArrayList<R>((thisSize + step - 1) / step)\n val window = MovingSubList(this)\n var index = 0\n while (index < thisSize) {\n window.move(index, (index + size).coerceAtMost(thisSize))\n if (!partialWindows && window.size < size) break\n result.add(transform(window))\n index += step\n }\n return result\n }\n val result = ArrayList<R>()\n windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = true).forEach {\n result.add(transform(it))\n }\n return result\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <T, R> Iterable<T>.zip(other: Array<out R>): List<Pair<T, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` collection and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <T, R, V> Iterable<T>.zip(other: Array<out R>, transform: (a: T, b: R) -> V): List<V> {\n val arraySize = other.size\n val list = ArrayList<V>(minOf(collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in this) {\n if (i >= arraySize) break\n list.add(transform(element, other[i++]))\n }\n return list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] collection with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <T, R> Iterable<T>.zip(other: Iterable<R>): List<Pair<T, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` collection and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <T, R, V> Iterable<T>.zip(other: Iterable<R>, transform: (a: T, b: R) -> V): List<V> {\n val first = iterator()\n val second = other.iterator()\n val list = ArrayList<V>(minOf(collectionSizeOrDefault(10),

other.collectionSizeOrDefault(10)))\n   while (first.hasNext() && second.hasNext()) {\n list.add(transform(first.next(), second.next()))\n   }\n   return list\n}\n\n/**\n * Returns a list of pairs of each two adjacent elements in this collection.\n * \n * The returned list is empty if this collection contains less than two elements.\n * \n * @sample samples.collections.Collections.Transformations.zipWithNext\n */\n@SinceKotlin(\"1.2\")\npublic fun <T> Iterable<T>.zipWithNext(): List<Pair<T, T>> {\n   return zipWithNext { a, b -> a to b }\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to an each pair of two adjacent elements in this collection.\n * \n * The returned list is empty if this collection contains less than two elements.\n * \n * @sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas\n */\n@SinceKotlin(\"1.2\")\npublic inline fun <T, R> Iterable<T>.zipWithNext(transform: (a: T, b: T) -> R): List<R> {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return emptyList()\n   val result = mutableListOf<R>()\n   var current = iterator.next()\n   while (iterator.hasNext()) {\n   val next = iterator.next()\n   result.add(transform(current, next))\n   current = next\n   }\n   return result\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <T, A : Appendable> Iterable<T>.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((T) -> CharSequence)? = null): A {\n   buffer.append(prefix)\n   var count = 0\n   for (element in this) {\n   if (++count > 1) buffer.append(separator)\n   if (limit < 0 || count <= limit) {\n   buffer.appendElement(element, transform)\n   } else break\n   }\n   if (limit >= 0 && count > limit) buffer.append(truncated)\n   buffer.append(postfix)\n   return buffer\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun <T> Iterable<T>.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((T) -> CharSequence)? = null): String {\n   return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Returns this collection as an [Iterable].\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.asIterable(): Iterable<T> {\n   return this\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original collection returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromCollection\n */\npublic fun <T> Iterable<T>.asSequence(): Sequence<T> {\n   return Sequence { this.iterator() }\n}\n\n/**\n * Returns an average value of elements in the collection.\n */\n@kotlin.jvm.JvmName(\"averageOfByte\")\npublic fun Iterable<Byte>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   checkCountOverflow(++count)\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the collection.\n */\n@kotlin.jvm.JvmName(\"averageOfShort\")\npublic fun Iterable<Short>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   checkCountOverflow(++count)\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the collection.\n */\n@kotlin.jvm.JvmName(\"averageOfInt\")\npublic fun Iterable<Int>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   checkCountOverflow(++count)\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the collection.\n */\n@kotlin.jvm.JvmName(\"averageOfLong\")\npublic fun Iterable<Long>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   checkCountOverflow(++count)\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the collection.\n */\n@kotlin.jvm.JvmName(\"averageOfFloat\")\npublic fun

Iterable<Float>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the collection.\n */\n@kotlin.jvm.JvmName(\"averageOfDouble\")\npublic fun Iterable<Double>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfByte\")\npublic fun Iterable<Byte>.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfShort\")\npublic fun Iterable<Short>.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfInt\")\npublic fun Iterable<Int>.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfLong\")\npublic fun Iterable<Long>.sum(): Long {\n var sum: Long = 0L\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfFloat\")\npublic fun Iterable<Float>.sum(): Float {\n var sum: Float = 0.0f\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfDouble\")\npublic fun Iterable<Double>.sum(): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.collections\r\n\r\nimport kotlin.comparisons.naturalOrder\r\nimport kotlin.random.Random\r\n\r\n/** Returns the array if it's not `null`, or an empty array otherwise. */\r\n@kotlin.internal.InlineOnly\r\npublic actual inline fun <T> Array<out T>?.orEmpty(): Array<out T> = this ?: emptyArray<T>()\r\n\r\n@kotlin.internal.InlineOnly\r\npublic actual inline fun <T> Collection<T>.toTypedArray(): Array<T> = copyToArray(this)\r\n\r\n@JsName(\"copyToArray\")\r\n@PublishedApi\r\ninternal fun <T> copyToArray(collection: Collection<T>): Array<T> {\r\n return if (collection.asDynamic().toArray !== undefined)\r\n collection.asDynamic().toArray().unsafeCast<Array<T>>()\r\n else\r\n copyToArrayImpl(collection).unsafeCast<Array<T>>()\r\n}\r\n\r\n@JsName(\"copyToArrayImpl\")\r\ninternal actual fun copyToArrayImpl(collection: Collection<*>): Array<Any?> {\r\n val array = emptyArray<Any?>()\r\n val iterator = collection.iterator()\r\n while (iterator.hasNext())\r\n array.asDynamic().push(iterator.next())\r\n return array\r\n}\r\n\r\n@JsName(\"copyToExistingArrayImpl\")\r\ninternal actual fun <T> copyToArrayImpl(collection: Collection<*>, array: Array<T>): Array<T> {\r\n if (array.size < collection.size)\r\n return copyToArrayImpl(collection).unsafeCast<Array<T>>()\r\n\r\n val iterator = collection.iterator()\r\n var index = 0\r\n while (iterator.hasNext()) {\r\n array[index++] = iterator.next().unsafeCast<T>()\r\n }\r\n if (index < array.size) {\r\n array[index] = null.unsafeCast<T>()\r\n }\r\n return array\r\n}\r\n\r\n/**\r\n * Returns an immutable list containing only the specified object [element].\r\n */\r\npublic fun <T> listOf(element: T): List<T> = arrayListOf(element)\r\n\r\n/**\r\n * Returns an immutable set containing only the specified object [element].\r\n */\r\npublic fun <T> setOf(element: T): Set<T> = hashSetOf(element)\r\n\r\n/**\r\n * Returns an immutable map, mapping only the specified key to the\r\n * specified value.\r\n */\r\npublic fun <K, V> mapOf(pair: Pair<K, V>): Map<K, V> = hashMapOf(pair)\r\n\r\n/**\r\n * Fills the list with the provided [value].\r\n *\r\n * Each element in the list gets replaced with the [value].\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual fun <T> MutableList<T>.fill(value: T): Unit {\r\n for (index in 0..lastIndex) {\r\n this[index] = value\r\n }\r\n}\r\n\r\n/**\r\n * Randomly shuffles elements in this list.\r\n *\r\n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual fun <T> MutableList<T>.shuffle(): Unit = shuffle(Random)\r\n\r\n/**\r\n * Returns a new list with the elements of this list randomly shuffled.\r\n

*/\r\n@SinceKotlin(\"1.2\")\r\npublic actual fun <T> Iterable<T>.shuffled(): List<T> = toMutableList().apply { shuffle() }\r\n\r\n/**\r\n * Sorts elements in the list in-place according to their natural sort order.\r\n *\r\n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\r\n */\r\npublic actual fun <T : Comparable<T>> MutableList<T>.sort(): Unit {\r\n collectionsSort(this, naturalOrder())\r\n}\r\n\r\n/**\r\n * Sorts elements in the list in-place according to the order specified with [comparator].\r\n *\r\n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\r\n */\r\npublic actual fun <T> MutableList<T>.sortWith(comparator: Comparator<in T>): Unit {\r\n collectionsSort(this, comparator)\r\n}\r\n\r\nprivate fun <T> collectionsSort(list: MutableList<T>, comparator: Comparator<in T>) {\r\n if (list.size <= 1) return\r\n\r\n val array = copyToArray(list)\r\n sortArrayWith(array, comparator)\r\n\r\n for (i in 0 until array.size) {\r\n list[i] = array[i]\r\n }\r\n}\r\n\r\ninternal actual fun <T> arrayOfNulls(reference: Array<T>, size: Int): Array<T> {\r\n return arrayOfNulls<Any>(size).unsafeCast<Array<T>>()\r\n}\r\n\r\n@SinceKotlin(\"1.3\")\r\n@PublishedApi\r\n@JsName(\"arrayCopy\")\r\ninternal fun <T> arrayCopy(source: Array<out T>, destination: Array<in T>, destinationOffset: Int, startIndex: Int, endIndex: Int) {\r\n AbstractList.checkRangeIndexes(startIndex, endIndex, source.size)\r\n val rangeSize = endIndex - startIndex\r\n AbstractList.checkRangeIndexes(destinationOffset, destinationOffset + rangeSize, destination.size)\r\n\r\n if (js(\"ArrayBuffer\").isView(destination) && js(\"ArrayBuffer\").isView(source)) {\r\n val subrange = source.asDynamic().subarray(startIndex, endIndex)\r\n destination.asDynamic().set(subrange, destinationOffset)\r\n } else {\r\n if (source !== destination || destinationOffset <= startIndex) {\r\n for (index in 0 until rangeSize) {\r\n destination[destinationOffset + index] = source[startIndex + index]\r\n }\r\n } else {\r\n for (index in rangeSize - 1 downTo 0) {\r\n destination[destinationOffset + index] = source[startIndex + index]\r\n }\r\n }\r\n}\r\n\r\n// no singleton map implementation in js, return map as is\r\n@Suppress(\"NOTHING_TO_INLINE\")\r\ninternal actual inline fun <K, V> Map<K, V>.toSingletonMapOrSelf(): Map<K, V> = this\r\n\r\n@Suppress(\"NOTHING_TO_INLINE\")\r\ninternal actual inline fun <K, V> Map<out K, V>.toSingletonMap(): Map<K, V> = this.toMutableMap()\r\n\r\n\r\n@Suppress(\"NOTHING_TO_INLINE\")\r\ninternal actual inline fun <T> Array<out T>.copyToArrayOfAny(isVarargs: Boolean): Array<out Any?> =\r\n if (isVarargs)\r\n // no need to copy vararg array in JS\r\n this\r\n else\r\n this.copyOf()\r\n\r\n\r\n\r\n@PublishedApi\r\ninternal actual fun checkIndexOverflow(index: Int): Int {\r\n if (index < 0) {\r\n throwIndexOverflow()\r\n }\r\n return index\r\n}\r\n\r\n@PublishedApi\r\ninternal actual fun checkCountOverflow(count: Int): Int {\r\n if (count < 0) {\r\n throwCountOverflow()\r\n }\r\n return count\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"CollectionsKt\")\r\n\r\npackage kotlin.collections\r\n\r\n\r\n\r\n/**\r\n * Returns the given iterator itself. This allows to use an instance of iterator in a `for` loop.\r\n * @sample samples.collections.Iterators.iterator\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <T> Iterator<T>.iterator(): Iterator<T> = this\r\n\r\n/**\r\n * Returns an [Iterator] that wraps each element produced by the original iterator\r\n * into an [IndexedValue] containing the index of that element and the element itself.\r\n *\r\n * @sample samples.collections.Iterators.withIndexIterator\r\n */\r\npublic fun <T> Iterator<T>.withIndex(): Iterator<IndexedValue<T>> = IndexingIterator(this)\r\n\r\n/**\r\n * Performs the given [operation] on each element of this [Iterator].\r\n * @sample samples.collections.Iterators.forEachIterator\r\n */\r\npublic inline fun <T> Iterator<T>.forEach(operation: (T) -> Unit): Unit {\r\n for (element in this) operation(element)\r\n}\r\n\r\n/**\r\n * Iterator transforming original `iterator` into iterator of [IndexedValue], counting index from zero.\r\n */\r\ninternal class IndexingIterator<out T>(private val iterator: Iterator<T>) : Iterator<IndexedValue<T>> {\r\n private var index = 0\r\n final override fun hasNext(): Boolean = iterator.hasNext()\r\n final override fun next(): IndexedValue<T> = IndexedValue(checkIndexOverflow(index++), iterator.next())\r\n}\r\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the

license/LICENSE.txt file.\n
/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"ComparisonsKt\")\n\npackage kotlin.comparisons\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.\n\n/**\n * Returns the greater of two values.\n * If values are equal, returns the first one.\n */\n@SinceKotlin(\"1.1\")\npublic expect fun <T : Comparable<T>> maxOf(a: T, b: T): T\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Byte, b: Byte): Byte\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Short, b: Short): Short\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Int, b: Int): Int\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Long, b: Long): Long\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Float, b: Float): Float\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Double, b: Double): Double\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\npublic expect fun <T : Comparable<T>> maxOf(a: T, b: T, c: T): T\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Byte, b: Byte, c: Byte): Byte\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Short, b: Short, c: Short): Short\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Int, b: Int, c: Int): Int\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Long, b: Long, c: Long): Long\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Float, b: Float, c: Float): Float\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Double, b: Double, c: Double): Double\n\n/**\n * Returns the greater of three values according to the order specified by the given [comparator].\n */\n@SinceKotlin(\"1.1\")\npublic fun <T> maxOf(a: T, b: T, c: T, comparator: Comparator<in T>): T {\n   return maxOf(a, maxOf(b, c, comparator), comparator)\n}\n\n/**\n * Returns the greater of two values according to the order specified by the given [comparator].\n * If values are equal, returns the first one.\n */\n@SinceKotlin(\"1.1\")\npublic fun <T> maxOf(a: T, b: T, comparator: Comparator<in T>): T {\n   return if (comparator.compare(a, b) >= 0) a else b\n}\n\n/**\n * Returns the smaller of two values.\n * If values are equal, returns the first one.\n */\n@SinceKotlin(\"1.1\")\npublic expect fun <T : Comparable<T>> minOf(a: T, b: T): T\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Byte, b: Byte): Byte\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Short, b: Short): Short\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Int, b: Int): Int\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Long, b: Long): Long\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Float, b: Float): Float\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Double, b: Double): Double\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\npublic expect fun <T : Comparable<T>> minOf(a: T, b: T, c: T): T\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Byte, b: Byte, c: Byte): Byte\n\n/**\n * Returns the smaller of three values.\n

*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Short, b: Short, c: Short): Short\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Int, b: Int, c: Int): Int\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Long, b: Long, c: Long): Long\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Float, b: Float, c: Float): Float\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Double, b: Double, c: Double): Double\n\n/**\n * Returns the smaller of three values according to the order specified by the given [comparator].\n */\n@SinceKotlin(\"1.1\")\npublic fun <T> minOf(a: T, b: T, c: T, comparator: Comparator<in T>): T {\n   return minOf(a, minOf(b, c, comparator), comparator)\n}\n\n/**\n * Returns the smaller of two values according to the order specified by the given [comparator].\n * If values are equal, returns the first one.\n */\n@SinceKotlin(\"1.1\")\npublic fun <T> minOf(a: T, b: T, comparator: Comparator<in T>): T {\n   return if (comparator.compare(a, b) <= 0) a else b\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"MapsKt\")\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns a [List] containing all key-value pairs.\n */\npublic fun <K, V> Map<out K, V>.toList(): List<Pair<K, V>> {\n   if (size == 0)\n   return emptyList()\n   val iterator = entries.iterator()\n   if (!iterator.hasNext())\n   return emptyList()\n   val first = iterator.next()\n   if (!iterator.hasNext())\n   return listOf(first.toPair())\n   val result = ArrayList<Pair<K, V>>(size)\n   result.add(first.toPair())\n   do {\n   result.add(iterator.next().toPair())\n   } while (iterator.hasNext())\n   return result\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each entry of original map.\n */\npublic inline fun <K, V, R> Map<out K, V>.flatMap(transform: (Map.Entry<K, V>) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each entry of original map, to the given [destination].\n */\npublic inline fun <K, V, R, C : MutableCollection<in R>> Map<out K, V>.flatMapTo(destination: C, transform: (Map.Entry<K, V>) -> Iterable<R>): C {\n   for (element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each entry in the original map.\n * \n * @sample samples.collections.Maps.Transformations.mapToList\n */\npublic inline fun <K, V, R> Map<out K, V>.map(transform: (Map.Entry<K, V>) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each entry in the original map.\n */\npublic inline fun <K, V, R : Any> Map<out K, V>.mapNotNull(transform: (Map.Entry<K, V>) -> R?): List<R> {\n   return mapNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each entry in the original map\n * and appends only the non-null results to the given [destination].\n */\npublic inline fun <K, V, R : Any, C : MutableCollection<in R>> Map<out K, V>.mapNotNullTo(destination: C, transform: (Map.Entry<K, V>) -> R?): C {\n   forEach { element -> transform(element)?.let { destination.add(it) } }\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each entry of the original map\n * and appends the results to the given [destination].\n */\npublic inline fun <K, V, R, C : MutableCollection<in R>> Map<out K, V>.mapTo(destination: C, transform: (Map.Entry<K, V>) -> R): C {\n   for (item in this)\n   destination.add(transform(item))\n   return destination\n}\n\n/**\n * Returns `true` if all entries match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun <K, V> Map<out K, V>.all(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n   if (isEmpty()) return true\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if map has at least one entry.\n * \n *

@sample samples.collections.Collections.Aggregates.any\n */\npublic fun <K, V> Map<out K, V>.any(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if at least one entry matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun <K, V> Map<out K, V>.any(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n   if (isEmpty()) return false\n   for (element in this) if (predicate(element)) return true\n   return false\n}\n\n/**\n * Returns the number of entries in this map.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.count(): Int {\n   return size\n}\n\n/**\n * Returns the number of entries matching the given [predicate].\n */\npublic inline fun <K, V> Map<out K, V>.count(predicate: (Map.Entry<K, V>) -> Boolean): Int {\n   if (isEmpty()) return 0\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Performs the given [action] on each entry.\n */\n@kotlin.internal.HidesMembers\npublic inline fun <K, V> Map<out K, V>.forEach(action: (Map.Entry<K, V>) -> Unit): Unit {\n   for (element in this) action(element)\n}\n\n/**\n * Returns the first entry yielding the largest value of the given function or `null` if there are no entries.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K, V>.maxBy(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n   return entries.maxBy(selector)\n}\n\n/**\n * Returns the first entry having the largest value according to the provided [comparator] or `null` if there are no entries.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.maxWith(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {\n   return entries.maxWith(comparator)\n}\n\n/**\n * Returns the first entry yielding the smallest value of the given function or `null` if there are no entries.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <K, V, R : Comparable<R>> Map<out K, V>.minBy(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n   return entries.minBy(selector)\n}\n\n/**\n * Returns the first entry having the smallest value according to the provided [comparator] or `null` if there are no entries.\n */\npublic fun <K, V> Map<out K, V>.minWith(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {\n   return entries.minWith(comparator)\n}\n\n/**\n * Returns `true` if the map has no entries.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun <K, V> Map<out K, V>.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if no entries match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun <K, V> Map<out K, V>.none(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n   if (isEmpty()) return true\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Performs the given [action] on each entry and returns the map itself afterwards.\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <K, V, M : Map<out K, V>> M.onEach(action: (Map.Entry<K, V>) -> Unit): M {\n   return apply { for (element in this) action(element) }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original map returning its entries when being iterated.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.asIterable(): Iterable<Map.Entry<K, V>> {\n   return entries\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original map returning its entries when being iterated.\n */\npublic fun <K, V> Map<out K, V>.asSequence(): Sequence<Map.Entry<K, V>> {\n return entries.asSequence()\n}\n\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.ranges\r\n\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun Float.rangeTo(that: Float): ClosedFloatingPointRange<Float> =\r\n   this.toDouble().rangeTo(that.toDouble()).unsafeCast<ClosedFloatingPointRange<Float>>()\r\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"SequencesKt\")\n\npackage kotlin.sequences\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\n\n/**\n * Returns `true` if [element] is found in the sequence.\n *\n * The operation is _terminal_.\n */\npublic operator fun <@kotlin.internal.OnlyInputTypes T> Sequence<T>.contains(element: T): Boolean {\n   return indexOf(element)

>= 0\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this sequence.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic fun <T> Sequence<T>.elementAt(index: Int): T {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"Sequence doesn't contain element at index $index.\") }\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this sequence.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\npublic fun <T> Sequence<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n if (index < 0)\n return defaultValue(index)\n val iterator = iterator()\n var count = 0\n while (iterator.hasNext()) {\n val element = iterator.next()\n if (index == count++)\n return element\n }\n return defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this sequence.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\npublic fun <T> Sequence<T>.elementAtOrNull(index: Int): T? {\n if (index < 0)\n return null\n val iterator = iterator()\n var count = 0\n while (iterator.hasNext()) {\n val element = iterator.next()\n if (index == count++)\n return element\n }\n return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n *\n * The operation is _terminal_.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.find(predicate: (T) -> Boolean): T? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n *\n * The operation is _terminal_.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.findLast(predicate: (T) -> Boolean): T? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the sequence is empty.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.first(): T {\n val iterator = iterator()\n if (!iterator.hasNext())\n throw NoSuchElementException(\"Sequence is empty.\")\n return iterator.next()\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.first(predicate: (T) -> Boolean): T {\n for (element in this) if (predicate(element)) return element\n throw NoSuchElementException(\"Sequence contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element, or `null` if the sequence is empty.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.firstOrNull(): T? {\n val iterator = iterator()\n if (!iterator.hasNext())\n return null\n return iterator.next()\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.firstOrNull(predicate: (T) -> Boolean): T? {\n for (element in this) if (predicate(element)) return element\n return null\n}\n\n/**\n * Returns first index of [element], or -1 if the sequence does not contain element.\n *\n * The operation is _terminal_.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Sequence<T>.indexOf(element: T): Int {\n var index = 0\n for (item in this) {\n checkIndexOverflow(index)\n if (element == item)\n return index\n index++\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the sequence does not contain such element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n var index = 0\n for (item in this) {\n checkIndexOverflow(index)\n if (predicate(item))\n return index\n index++\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the sequence does not contain such element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n var lastIndex = -1\n var index = 0\n for (item in this) {\n checkIndexOverflow(index)\n if (predicate(item))\n lastIndex = index\n index++\n }\n return lastIndex\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the sequence is empty.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.last(): T {\n val iterator = iterator()\n if (!iterator.hasNext())\n throw NoSuchElementException(\"Sequence is empty.\")\n var last = iterator.next()\n while (iterator.hasNext())\n last = iterator.next()\n return last\n}\n\n/**\n *

Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.last(predicate: (T) -> Boolean): T {\n var last: T? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n last = element\n found = true\n }\n }\n if (!found) throw NoSuchElementException(\"Sequence contains no element matching the predicate.\")\n @Suppress(\"UNCHECKED_CAST\")\n return last as T\n}\n\n/**\n * Returns last index of [element], or -1 if the sequence does not contain element.\n *\n * The operation is _terminal_.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Sequence<T>.lastIndexOf(element: T): Int {\n var lastIndex = -1\n var index = 0\n for (item in this) {\n checkIndexOverflow(index)\n if (element == item)\n lastIndex = index\n index++\n }\n return lastIndex\n}\n\n/**\n * Returns the last element, or `null` if the sequence is empty.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.lastOrNull(): T? {\n val iterator = iterator()\n if (!iterator.hasNext())\n return null\n var last = iterator.next()\n while (iterator.hasNext())\n last = iterator.next()\n return last\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.lastOrNull(predicate: (T) -> Boolean): T? {\n var last: T? = null\n for (element in this) {\n if (predicate(element)) {\n last = element\n }\n }\n return last\n}\n\n/**\n * Returns the single element, or throws an exception if the sequence is empty or has more than one element.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.single(): T {\n val iterator = iterator()\n if (!iterator.hasNext())\n throw NoSuchElementException(\"Sequence is empty.\")\n val single = iterator.next()\n if (iterator.hasNext())\n throw IllegalArgumentException(\"Sequence has more than one element.\")\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.single(predicate: (T) -> Boolean): T {\n var single: T? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException(\"Sequence contains more than one matching element.\")\n single = element\n found = true\n }\n }\n if (!found) throw NoSuchElementException(\"Sequence contains no element matching the predicate.\")\n @Suppress(\"UNCHECKED_CAST\")\n return single as T\n}\n\n/**\n * Returns single element, or `null` if the sequence is empty or has more than one element.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.singleOrNull(): T? {\n val iterator = iterator()\n if (!iterator.hasNext())\n return null\n val single = iterator.next()\n if (iterator.hasNext())\n return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.singleOrNull(predicate: (T) -> Boolean): T? {\n var single: T? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns a sequence containing all elements except first [n] elements.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Sequence<T>.drop(n: Int): Sequence<T> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return when {\n n == 0 -> this\n this is DropTakeSequence -> this.drop(n)\n else -> DropSequence(this, n)\n }\n}\n\n/**\n * Returns a sequence containing all elements except first elements that satisfy the given [predicate].\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Sequence<T>.dropWhile(predicate: (T) -> Boolean): Sequence<T> {\n return DropWhileSequence(this, predicate)\n}\n\n/**\n * Returns a sequence containing only elements matching the given [predicate].\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T> Sequence<T>.filter(predicate: (T) -> Boolean): Sequence<T> {\n return FilteringSequence(this, true, predicate)\n}\n\n/**\n * Returns a sequence containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n *\n * The operation is _intermediate_ and _stateless_.\n

*/\npublic fun <T> Sequence<T>.filterIndexed(predicate: (index: Int, T) -> Boolean): Sequence<T> {\n // TODO: Rewrite with generalized MapFilterIndexingSequence\n return TransformingSequence(FilteringSequence(IndexingSequence(this), true, { predicate(it.index, it.value) }), { it.value })\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, C : MutableCollection<in T>> Sequence<T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return destination\n}\n\n/**\n * Returns a sequence containing all elements that are instances of specified type parameter R.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic inline fun <reified R> Sequence<*>.filterIsInstance(): Sequence<@kotlin.internal.NoInfer R> {\n @Suppress(\"UNCHECKED_CAST\")\n return filter { it is R } as Sequence<R>\n}\n\n/**\n * Appends all elements that are instances of specified type parameter R to the given [destination].\n *\n * The operation is _terminal_.\n */\npublic inline fun <reified R, C : MutableCollection<in R>> Sequence<*>.filterIsInstanceTo(destination: C): C {\n for (element in this) if (element is R) destination.add(element)\n return destination\n}\n\n/**\n * Returns a sequence containing all elements not matching the given [predicate].\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T> Sequence<T>.filterNot(predicate: (T) -> Boolean): Sequence<T> {\n return FilteringSequence(this, false, predicate)\n}\n\n/**\n * Returns a sequence containing all elements that are not `null`.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T : Any> Sequence<T?>.filterNotNull(): Sequence<T> {\n @Suppress(\"UNCHECKED_CAST\")\n return filterNot { it == null } as Sequence<T>\n}\n\n/**\n * Appends all elements that are not `null` to the given [destination].\n *\n * The operation is _terminal_.\n */\npublic fun <C : MutableCollection<in T>, T : Any> Sequence<T?>.filterNotNullTo(destination: C): C {\n for (element in this) if (element != null) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, C : MutableCollection<in T>> Sequence<T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, C : MutableCollection<in T>> Sequence<T>.filterTo(destination: C, predicate: (T) -> Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Returns a sequence containing first [n] elements.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun <T> Sequence<T>.take(n: Int): Sequence<T> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return when {\n n == 0 -> emptySequence()\n this is DropTakeSequence -> this.take(n)\n else -> TakeSequence(this, n)\n }\n}\n\n/**\n * Returns a sequence containing first elements satisfying the given [predicate].\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun <T> Sequence<T>.takeWhile(predicate: (T) -> Boolean): Sequence<T> {\n return TakeWhileSequence(this, predicate)\n}\n\n/**\n * Returns a sequence that yields elements of this sequence sorted according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic fun <T : Comparable<T>> Sequence<T>.sorted(): Sequence<T> {\n return object : Sequence<T> {\n override fun iterator(): Iterator<T> {\n val sortedList = this@sorted.toMutableList()\n sortedList.sort()\n return sortedList.iterator()\n }\n }\n}\n\n/**\n * Returns a sequence that yields elements of this sequence sorted according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic inline fun <T, R : Comparable<R>> Sequence<T>.sortedBy(crossinline selector: (T) -> R?): Sequence<T> {\n return

sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a sequence that yields elements of this sequence sorted descending according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic inline fun <T, R : Comparable<R>> Sequence<T>.sortedByDescending(crossinline selector: (T) -> R?): Sequence<T> {\n return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a sequence that yields elements of this sequence sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic fun <T : Comparable<T>> Sequence<T>.sortedDescending(): Sequence<T> {\n return sortedWith(reverseOrder())\n}\n\n/**\n * Returns a sequence that yields elements of this sequence sorted according to the specified [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic fun <T> Sequence<T>.sortedWith(comparator: Comparator<in T>): Sequence<T> {\n return object : Sequence<T> {\n override fun iterator(): Iterator<T> {\n val sortedList = this@sortedWith.toMutableList()\n sortedList.sortWith(comparator)\n return sortedList.iterator()\n }\n }\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given sequence.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original sequence.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, K, V> Sequence<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {\n return associateTo(LinkedHashMap<K, V>(), transform)\n}\n\n/**\n * Returns a [Map] containing the elements from the given sequence indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original sequence.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, K> Sequence<T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n return associateByTo(LinkedHashMap<K, T>(), keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given sequence.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original sequence.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, K, V> Sequence<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n return associateByTo(LinkedHashMap<K, V>(), keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given sequence\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, K, M : MutableMap<in K, in T>> Sequence<T>.associateByTo(destination: M, keySelector: (T) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given sequence.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Sequence<T>.associateByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given sequence.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Sequence<T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Returns a [Map] where keys are elements from the given sequence and values are\n * produced by the [valueSelector] function

applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original sequence.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n */\n@SinceKotlin(\"1.3\")\npublic inline fun <K, V> Sequence<K>.associateWith(valueSelector: (K) -> V): Map<K, V> {\n   val result = LinkedHashMap<K, V>()\n   return associateWithTo(result, valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given sequence,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.3\")\npublic inline fun <K, V, M : MutableMap<in K, in V>> Sequence<K>.associateWithTo(destination: M, valueSelector: (K) -> V): M {\n   for (element in this) {\n   destination.put(element, valueSelector(element))\n   }\n   return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n *\n * The operation is _terminal_.\n */\npublic fun <T, C : MutableCollection<in T>> Sequence<T>.toCollection(destination: C): C {\n   for (item in this) {\n   destination.add(item)\n   }\n   return destination\n}\n\n/**\n * Returns a [HashSet] of all elements.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.toHashSet(): HashSet<T> {\n   return toCollection(HashSet<T>())\n}\n\n/**\n * Returns a [List] containing all elements.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.toList(): List<T> {\n   return this.toMutableList().optimizeReadOnlyList()\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this sequence.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.toMutableList(): MutableList<T> {\n   return toCollection(ArrayList<T>())\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original sequence.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.toSet(): Set<T> {\n   return toCollection(LinkedHashSet<T>()).optimizeReadOnlySet()\n}\n\n/**\n * Returns a single sequence of all elements from results of [transform] function being invoked on each element of original sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T, R> Sequence<T>.flatMap(transform: (T) -> Sequence<R>): Sequence<R> {\n   return FlatteningSequence(this, transform, { it.iterator() })\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original sequence, to the given [destination].\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.flatMapTo(destination: C, transform: (T) -> Sequence<R>): C {\n   for (element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Groups elements of the original sequence by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original sequence.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K> Sequence<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {\n   return groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original sequence\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original sequence.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V> Sequence<T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements of the original sequence by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K, M : MutableMap<in K, MutableList<T>>> Sequence<T>.groupByTo(destination: M, keySelector: (T) -> K): M {\n   for (element in this)

{\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<T>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original sequence\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> Sequence<T>.groupByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Creates a [Grouping] source from a sequence to be used later with one of group-and-fold operations\n * using the specified [keySelector] function to extract a key from each element.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K> Sequence<T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {\n return object : Grouping<T, K> {\n override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()\n override fun keyOf(element: T): K = keySelector(element)\n }\n}\n\n/**\n * Returns a sequence containing the results of applying the given [transform] function\n * to each element in the original sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic fun <T, R> Sequence<T>.map(transform: (T) -> R): Sequence<R> {\n return TransformingSequence(this, transform)\n}\n\n/**\n * Returns a sequence containing the results of applying the given [transform] function\n * to each element and its index in the original sequence.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T, R> Sequence<T>.mapIndexed(transform: (index: Int, T) -> R): Sequence<R> {\n return TransformingIndexedSequence(this, transform)\n}\n\n/**\n * Returns a sequence containing only the non-null results of applying the given [transform] function\n * to each element and its index in the original sequence.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T, R : Any> Sequence<T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): Sequence<R> {\n return TransformingIndexedSequence(this, transform).filterNotNull()\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original sequence\n * and appends only the non-null results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Sequence<T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {\n forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original sequence\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(checkIndexOverflow(index++), item))\n return destination\n}\n\n/**\n * Returns a sequence containing only the non-null results of applying the given [transform] function\n * to each element in the original sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T, R : Any> Sequence<T>.mapNotNull(transform: (T) -> R?): Sequence<R> {\n return TransformingSequence(this, transform).filterNotNull()\n}\n\n/**\n * Applies the given [transform] function to each element in the original sequence\n * and appends only the non-null results to the given [destination].\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Sequence<T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {\n forEach { element -> transform(element)?.let { destination.add(it) } }\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original sequence\n * and

appends the results to the given [destination].\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.mapTo(destination: C, transform: (T) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Returns a sequence that wraps each element of the original sequence\n * into an [IndexedValue] containing the index of that element and the element itself.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T> Sequence<T>.withIndex(): Sequence<IndexedValue<T>> {\n return IndexingSequence(this)\n}\n\n/**\n * Returns a sequence containing only distinct elements from the given sequence.\n * \n * The elements in the resulting sequence are in the same order as they were in the source sequence.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic fun <T> Sequence<T>.distinct(): Sequence<T> {\n return this.distinctBy { it }\n}\n\n/**\n * Returns a sequence containing only elements from the given sequence\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting sequence are in the same order as they were in the source sequence.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic fun <T, K> Sequence<T>.distinctBy(selector: (T) -> K): Sequence<T> {\n return DistinctSequence(this, selector)\n}\n\n/**\n * Returns a mutable set containing all distinct elements from the given sequence.\n * \n * The returned set preserves the element iteration order of the original sequence.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.toMutableSet(): MutableSet<T> {\n val set = LinkedHashSet<T>()\n for (item in this) set.add(item)\n return set\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun <T> Sequence<T>.all(predicate: (T) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if sequence has at least one element.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun <T> Sequence<T>.any(): Boolean {\n return iterator().hasNext()\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun <T> Sequence<T>.any(predicate: (T) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns the number of elements in this sequence.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.count(): Int {\n var count = 0\n for (element in this) checkCountOverflow(++count)\n return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.count(predicate: (T) -> Boolean): Int {\n var count = 0\n for (element in this) if (predicate(element)) checkCountOverflow(++count)\n return count\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R> Sequence<T>.fold(initial: R, operation: (acc: R, T) -> R): R {\n var accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original sequence.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R> Sequence<T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(checkIndexOverflow(index++), accumulator, element)\n return accumulator\n}\n\n/**\n * Performs the given [action] on each element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.forEach(action: (T) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {\n var index = 0\n for (item in this) action(checkIndexOverflow(index++), item)\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.1\")\npublic fun Sequence<Double>.max(): Double? {\n val

iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var max = iterator.next()\n   if (max.isNaN()) return max\n   while (iterator.hasNext()) {\n   val e = iterator.next()\n   if (e.isNaN()) return e\n   if (max < e) max = e\n   }\n   return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.1\")\npublic fun Sequence<Float>.max(): Float? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var max = iterator.next()\n   if (max.isNaN()) return max\n   while (iterator.hasNext()) {\n   val e = iterator.next()\n   if (e.isNaN()) return e\n   if (max < e) max = e\n   }\n   return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n *\n * The operation is _terminal_.\n */\npublic fun <T : Comparable<T>> Sequence<T>.max(): T? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var max = iterator.next()\n   while (iterator.hasNext()) {\n   val e = iterator.next()\n   if (max < e) max = e\n   }\n   return max\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <T, R : Comparable<R>> Sequence<T>.maxBy(selector: (T) -> R): T? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var maxElem = iterator.next()\n   if (!iterator.hasNext()) return maxElem\n   var maxValue = selector(maxElem)\n   do {\n   val e = iterator.next()\n   val v = selector(e)\n   if (maxValue < v) {\n   maxElem = e\n   maxValue = v\n   }\n   } while (iterator.hasNext())\n   return maxElem\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.maxWith(comparator: Comparator<in T>): T? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var max = iterator.next()\n   while (iterator.hasNext()) {\n   val e = iterator.next()\n   if (comparator.compare(max, e) < 0) max = e\n   }\n   return max\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.1\")\npublic fun Sequence<Double>.min(): Double? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var min = iterator.next()\n   if (min.isNaN()) return min\n   while (iterator.hasNext()) {\n   val e = iterator.next()\n   if (e.isNaN()) return e\n   if (min > e) min = e\n   }\n   return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.1\")\npublic fun Sequence<Float>.min(): Float? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var min = iterator.next()\n   if (min.isNaN()) return min\n   while (iterator.hasNext()) {\n   val e = iterator.next()\n   if (e.isNaN()) return e\n   if (min > e) min = e\n   }\n   return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n *\n * The operation is _terminal_.\n */\npublic fun <T : Comparable<T>> Sequence<T>.min(): T? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var min = iterator.next()\n   while (iterator.hasNext()) {\n   val e = iterator.next()\n   if (min > e) min = e\n   }\n   return min\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <T, R : Comparable<R>> Sequence<T>.minBy(selector: (T) -> R): T? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var minElem = iterator.next()\n   if (!iterator.hasNext()) return minElem\n   var minValue = selector(minElem)\n   do {\n   val e = iterator.next()\n   val v = selector(e)\n   if (minValue > v) {\n   minElem = e\n   minValue = v\n   }\n   } while (iterator.hasNext())\n   return minElem\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.minWith(comparator: Comparator<in T>): T? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var min = iterator.next()\n   while (iterator.hasNext()) {\n   val e = iterator.next()\n   if (comparator.compare(min, e) > 0) min = e\n   }\n   return min\n}\n\n/**\n * Returns `true` if the sequence has no elements.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun <T> Sequence<T>.none(): Boolean {\n   return !iterator().hasNext()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun

<T> Sequence<T>.none(predicate: (T) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Returns a sequence which performs the given [action] on each element of the original sequence as they pass through it.\n *\n * The operation is _intermediate_ and _stateless_.\n */\n@SinceKotlin(\"1.1\")\npublic fun <T> Sequence<T>.onEach(action: (T) -> Unit): Sequence<T> {\n return map {\n action(it)\n it\n }\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <S, T : S> Sequence<T>.reduce(operation: (acc: S, T) -> S): S {\n val iterator = this.iterator()\n if (!iterator.hasNext()) throw UnsupportedOperationException(\"Empty sequence can't be reduced.\")\n var accumulator: S = iterator.next()\n while (iterator.hasNext()) {\n accumulator = operation(accumulator, iterator.next())\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original sequence.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n *\n * The operation is _terminal_.\n */\npublic inline fun <S, T : S> Sequence<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n val iterator = this.iterator()\n if (!iterator.hasNext()) throw UnsupportedOperationException(\"Empty sequence can't be reduced.\")\n var index = 1\n var accumulator: S = iterator.next()\n while (iterator.hasNext()) {\n accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n }\n return accumulator\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the sequence.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.sumBy(selector: (T) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the sequence.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.sumByDouble(selector: (T) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns an original collection containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T : Any> Sequence<T?>.requireNoNulls(): Sequence<T> {\n return map { it ?: throw IllegalArgumentException(\"null element found in $this.\") }\n}\n\n/**\n * Splits this sequence into a sequence of lists each not exceeding the given [size].\n * \n * The last list in the resulting sequence may have less elements than the given [size].\n * \n * @param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this sequence.\n *\n * The operation is _intermediate_ and _stateful_.\n * \n * @sample samples.collections.Collections.Transformations.chunked\n */\n@SinceKotlin(\"1.2\")\npublic fun <T> Sequence<T>.chunked(size: Int): Sequence<List<T>> {\n return windowed(size, size, partialWindows = true)\n}\n\n/**\n * Splits this sequence into several lists each not exceeding the given [size]\n * and applies the given [transform] function to an each.\n * \n * @return sequence of results of the [transform] applied to an each list.\n * \n * Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * The last list may have less elements than the given [size].\n * \n * @param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this sequence.\n *\n * The operation is _intermediate_ and _stateful_.\n * \n * @sample samples.text.Strings.chunkedTransform\n */\n@SinceKotlin(\"1.2\")\npublic fun <T, R> Sequence<T>.chunked(size: Int, transform: (List<T>) -> R): Sequence<R> {\n return windowed(size, size, partialWindows = true, transform = transform)\n}\n\n/**\n * Returns a sequence containing all elements of the original sequence without the first occurrence of the given [element].\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic operator fun <T> Sequence<T>.minus(element: T): Sequence<T> {\n return object: Sequence<T> {\n override fun iterator(): Iterator<T> {\n var removed = false\n return this@minus.filter { if (!removed && it == element) { removed = true; false } else true }.iterator()\n }\n }\n}\n\n/**\n * Returns a sequence containing all elements of original sequence except the elements contained in the given [elements] array.\n * \n * Note that the source sequence and the array being subtracted are iterated only when an `iterator` is requested from\n * the resulting

sequence. Changing any of them between successive calls to `iterator` may affect the result.\n * \n * The [elements] array may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n * a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic operator fun <T> Sequence<T>.minus(elements: Array<out T>): Sequence<T> {\n   if (elements.isEmpty()) return this\n   return object: Sequence<T> {\n   override fun iterator(): Iterator<T> {\n   val other = elements.toHashSet()\n   return this@minus.filterNot { it in other }.iterator()\n   }\n   }\n}\n\n/**\n * Returns a sequence containing all elements of original sequence except the elements contained in the given [elements] collection.\n * \n * Note that the source sequence and the collection being subtracted are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n * \n * The [elements] collection may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n * a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic operator fun <T> Sequence<T>.minus(elements: Iterable<T>): Sequence<T> {\n   return object: Sequence<T> {\n   override fun iterator(): Iterator<T> {\n   val other = elements.convertToSetForSetOperation()\n   if (other.isEmpty())\n   return this@minus.iterator()\n   else\n   return this@minus.filterNot { it in other }.iterator()\n   }\n   }\n}\n\n/**\n * Returns a sequence containing all elements of original sequence except the elements contained in the given [elements] sequence.\n * \n * Note that the source sequence and the sequence being subtracted are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n * \n * The operation is _intermediate_ for this sequence and _terminal_ and _stateful_ for the [elements] sequence.\n * \n * The [elements] sequence may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n * a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n */\npublic operator fun <T> Sequence<T>.minus(elements: Sequence<T>): Sequence<T> {\n   return object: Sequence<T> {\n   override fun iterator(): Iterator<T> {\n   val other = elements.toHashSet()\n   if (other.isEmpty())\n   return this@minus.iterator()\n   else\n   return this@minus.filterNot { it in other }.iterator()\n   }\n   }\n}\n\n/**\n * Returns a sequence containing all elements of the original sequence without the first occurrence of the given [element].\n *\n * The operation is _intermediate_ and _stateless_.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.minusElement(element: T): Sequence<T> {\n   return minus(element)\n}\n\n/**\n * Splits the original sequence into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {\n   val first = ArrayList<T>()\n   val second = ArrayList<T>()\n   for (element in this) {\n   if (predicate(element)) {\n   first.add(element)\n   } else {\n   second.add(element)\n   }\n   }\n   return Pair(first, second)\n}\n\n/**\n * Returns a sequence containing all elements of the original sequence and then the given [element].\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic operator fun <T> Sequence<T>.plus(element: T): Sequence<T> {\n   return sequenceOf(this, sequenceOf(element)).flatten()\n}\n\n/**\n * Returns a sequence containing all elements of original sequence and then all elements of the given [elements] array.\n * \n * Note that the source sequence and the array being added are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic operator fun <T> Sequence<T>.plus(elements: Array<out T>): Sequence<T> {\n   return this.plus(elements.asList())\n}\n\n/**\n * Returns a sequence containing all elements of original sequence and then all elements of the given [elements] collection.\n * \n * Note that the source sequence and the collection being added are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic operator fun <T> Sequence<T>.plus(elements: Iterable<T>): Sequence<T> {\n   return sequenceOf(this, elements.asSequence()).flatten()\n}\n\n/**\n * Returns a sequence containing all elements of original sequence and

then all elements of the given [elements] sequence.\n * \n * Note that the source sequence and the sequence being added are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic operator fun <T> Sequence<T>.plus(elements: Sequence<T>): Sequence<T> {\n   return sequenceOf(this, elements).flatten()\n}\n\n/**\n * Returns a sequence containing all elements of the original sequence and then the given [element].\n *\n * The operation is _intermediate_ and _stateless_.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.plusElement(element: T): Sequence<T> {\n return plus(element)\n}\n\n/**\n * Returns a sequence of snapshots of the window of the given [size]\n * sliding along this sequence with the given [step], where each\n * snapshot is a list.\n * \n * Several last lists may have less elements than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.takeWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun <T> Sequence<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): Sequence<List<T>> {\n   return windowedSequence(size, step, partialWindows, reuseBuffer = false)\n}\n\n/**\n * Returns a sequence of results of applying the given [transform] function to\n * an each list representing a view over the window of the given [size]\n * sliding along this sequence with the given [step].\n * \n * Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * Several last lists may have less elements than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.averageWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun <T, R> Sequence<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (List<T>) -> R): Sequence<R> {\n   return windowedSequence(size, step, partialWindows, reuseBuffer = true).map(transform)\n}\n\n/**\n * Returns a sequence of values built from the elements of `this` sequence and the [other] sequence with the same index.\n * The resulting sequence ends as soon as the shortest input sequence ends.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Sequences.Transformations.zip\n */\npublic infix fun <T, R> Sequence<T>.zip(other: Sequence<R>): Sequence<Pair<T, R>> {\n   return MergingSequence(this, other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a sequence of values built from the elements of `this` sequence and the [other] sequence with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The resulting sequence ends as soon as the shortest input sequence ends.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Sequences.Transformations.zipWithTransform\n */\npublic fun <T, R, V> Sequence<T>.zip(other: Sequence<R>, transform: (a: T, b: R) -> V): Sequence<V> {\n   return MergingSequence(this, other, transform)\n}\n\n/**\n * Returns a sequence of pairs of each two adjacent elements in this sequence.\n * \n * The returned sequence is empty if this sequence contains less than two elements.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.zipWithNext\n */\n@SinceKotlin(\"1.2\")\npublic fun <T> Sequence<T>.zipWithNext(): Sequence<Pair<T, T>> {\n   return zipWithNext { a, b -> a to b }\n}\n\n/**\n * Returns a sequence containing the results of applying the given [transform] function\n * to an each pair of two adjacent elements in this sequence.\n * \n * The returned sequence is empty if this sequence contains less than two elements.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas\n */\n@SinceKotlin(\"1.2\")\npublic fun <T, R> Sequence<T>.zipWithNext(transform: (a: T, b: T) -> R): Sequence<R> {\n   return sequence result@

{\n val iterator = iterator()\n if (!iterator.hasNext()) return@result\n var current = iterator.next()\n while (iterator.hasNext()) {\n val next = iterator.next()\n yield(transform(current, next))\n current = next\n }\n }\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <T, A : Appendable> Sequence<T>.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((T) -> CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {\n buffer.appendElement(element, transform)\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun <T> Sequence<T>.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((T) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original sequence returning its elements when being iterated.\n */\npublic fun <T> Sequence<T>.asIterable(): Iterable<T> {\n return Iterable { this.iterator() }\n}\n\n/**\n * Returns this sequence as a [Sequence].\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.asSequence(): Sequence<T> {\n return this\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"averageOfByte\")\npublic fun Sequence<Byte>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"averageOfShort\")\npublic fun Sequence<Short>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"averageOfInt\")\npublic fun Sequence<Int>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"averageOfLong\")\npublic fun Sequence<Long>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"averageOfFloat\")\npublic fun Sequence<Float>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"averageOfDouble\")\npublic fun Sequence<Double>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfByte\")\npublic fun Sequence<Byte>.sum(): Int {\n var sum: Int = 0\n for

(element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfShort\")\npublic fun Sequence<Short>.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfInt\")\npublic fun Sequence<Int>.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfLong\")\npublic fun Sequence<Long>.sum(): Long {\n var sum: Long = 0L\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfFloat\")\npublic fun Sequence<Float>.sum(): Float {\n var sum: Float = 0.0f\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfDouble\")\npublic fun Sequence<Double>.sum(): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n",null,"/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"SetsKt\")\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns a set containing all elements of the original set except the given [element].\n * \n * The returned set preserves the element iteration order of the original set.\n */\npublic operator fun <T> Set<T>.minus(element: T): Set<T> {\n val result = LinkedHashSet<T>(mapCapacity(size))\n var removed = false\n return this.filterTo(result) { if (!removed && it == element) { removed = true; false } else true }\n}\n\n/**\n * Returns a set containing all elements of the original set except the elements contained in the given [elements] array.\n * \n * The returned set preserves the element iteration order of the original set.\n * \n * The [elements] array may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n * a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n */\npublic operator fun <T> Set<T>.minus(elements: Array<out T>): Set<T> {\n val result = LinkedHashSet<T>(this)\n result.removeAll(elements)\n return result\n}\n\n/**\n * Returns a set containing all elements of the original set except the elements contained in the given [elements] collection.\n * \n * The returned set preserves the element iteration order of the original set.\n * \n * The [elements] collection may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n * a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n */\npublic operator fun <T> Set<T>.minus(elements: Iterable<T>): Set<T> {\n val other = elements.convertToSetForSetOperationWith(this)\n if (other.isEmpty())\n return this.toSet()\n if (other is Set)\n return this.filterNotTo(LinkedHashSet<T>()) { it in other }\n val result = LinkedHashSet<T>(this)\n result.removeAll(other)\n return result\n}\n\n/**\n * Returns a set containing all elements of the original set except the elements contained in the given [elements] sequence.\n * \n * The returned set preserves the element iteration order of the original set.\n * \n * The [elements] sequence may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n * a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n */\npublic operator fun <T> Set<T>.minus(elements: Sequence<T>): Set<T> {\n val result = LinkedHashSet<T>(this)\n result.removeAll(elements)\n return result\n}\n\n/**\n * Returns a set containing all elements of the original set except the given [element].\n * \n * The returned set preserves the element iteration order of the original set.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Set<T>.minusElement(element: T): Set<T> {\n return minus(element)\n}\n\n/**\n * Returns a set containing all elements of the original set and then the given [element] if it isn't already in this set.\n * \n * The returned set preserves the element iteration order of the original set.\n */\npublic operator fun <T> Set<T>.plus(element: T): Set<T> {\n val result = LinkedHashSet<T>(mapCapacity(size + 1))\n

result.addAll(this)\n   result.add(element)\n   return result\n}\n\n/**\n * Returns a set containing all elements of the original set and the given [elements] array,\n * which aren't already in this set.\n * \n * The returned set preserves the element iteration order of the original set.\n */\npublic operator fun <T> Set<T>.plus(elements: Array<out T>): Set<T> {\n   val result = LinkedHashSet<T>(mapCapacity(this.size + elements.size))\n   result.addAll(this)\n   result.addAll(elements)\n   return result\n}\n\n/**\n * Returns a set containing all elements of the original set and the given [elements] collection,\n * which aren't already in this set.\n * The returned set preserves the element iteration order of the original set.\n */\npublic operator fun <T> Set<T>.plus(elements: Iterable<T>): Set<T> {\n   val result = LinkedHashSet<T>(mapCapacity(elements.collectionSizeOrNull()?.let { this.size + it } ?: this.size * 2))\n   result.addAll(this)\n   result.addAll(elements)\n   return result\n}\n\n/**\n * Returns a set containing all elements of the original set and the given [elements] sequence,\n * which aren't already in this set.\n * \n * The returned set preserves the element iteration order of the original set.\n */\npublic operator fun <T> Set<T>.plus(elements: Sequence<T>): Set<T> {\n   val result = LinkedHashSet<T>(mapCapacity(this.size * 2))\n   result.addAll(this)\n   result.addAll(elements)\n   return result\n}\n\n/**\n * Returns a set containing all elements of the original set and then the given [element] if it isn't already in this set.\n * \n * The returned set preserves the element iteration order of the original set.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Set<T>.plusElement(element: T): Set<T> {\n   return plus(element)\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"StringsKt\")\n\npackage kotlin.text\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\n\n/**\n * Returns a character at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this char sequence.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun CharSequence.elementAt(index: Int): Char\n\n/**\n * Returns a character at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this char sequence.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns a character at the given [index] or `null` if the [index] is out of bounds of this char sequence.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.elementAtOrNull(index: Int): Char? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns the first character matching the given [predicate], or `null` if no such character was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.find(predicate: (Char) -> Boolean): Char? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the last character matching the given [predicate], or `null` if no such character was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.findLast(predicate: (Char) -> Boolean): Char? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns first character.\n * @throws [NoSuchElementException] if the char sequence is empty.\n */\npublic fun CharSequence.first(): Char {\n   if (isEmpty())\n   throw NoSuchElementException(\"Char sequence is empty.\")\n   return this[0]\n}\n\n/**\n * Returns the first character matching the given [predicate].\n * @throws [NoSuchElementException] if no such character is found.\n */\npublic inline fun CharSequence.first(predicate: (Char) -> Boolean): Char {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Char sequence contains no character matching the predicate.\")\n}\n\n/**\n * Returns the first character, or `null` if the char sequence is empty.\n */\npublic fun CharSequence.firstOrNull(): Char? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first character matching the given [predicate], or `null` if character was not found.\n */\npublic inline fun CharSequence.firstOrNull(predicate: (Char) -> Boolean): Char? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns a character at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this char sequence.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.getOrElse(index: Int, defaultValue: (Int) -> Char):

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Char {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns a character at the given [index] or `null` if the [index] is out of bounds of this char sequence.\n */\npublic fun CharSequence.getOrNull(index: Int): Char? {\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns index of the first character matching the given [predicate], or -1 if the char sequence does not contain such character.\n */\npublic inline fun CharSequence.indexOfFirst(predicate: (Char) -> Boolean): Int {\n  for (index in indices) {\n        if (predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the last character matching the given [predicate], or -1 if the char sequence does not contain such character.\n */\npublic inline fun CharSequence.indexOfLast(predicate: (Char) -> Boolean): Int {\n  for (index in indices.reversed()) {\n        if (predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns the last character.\n * @throws [NoSuchElementException] if the char sequence is empty.\n */\npublic fun CharSequence.last(): Char {\n    if (isEmpty())\n        throw NoSuchElementException(\"Char sequence is empty.\")\n    return this[lastIndex]\n}\n\n/**\n * Returns the last character matching the given [predicate].\n * @throws [NoSuchElementException] if no such character is found.\n */\npublic inline fun CharSequence.last(predicate: (Char) -> Boolean): Char {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    throw NoSuchElementException(\"Char sequence contains no character matching the predicate.\")\n}\n\n/**\n * Returns the last character, or `null` if the char sequence is empty.\n */\npublic fun CharSequence.lastOrNull(): Char? {\n    return if (isEmpty()) null else this[length - 1]\n}\n\n/**\n * Returns the last character matching the given [predicate], or `null` if no such character was found.\n */\npublic inline fun CharSequence.lastOrNull(predicate: (Char) -> Boolean): Char? {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns a random character from this char sequence.\n * \n * @throws NoSuchElementException if this char sequence is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.random(): Char {\n    return random(Random)\n}\n\n/**\n * Returns a random character from this char sequence using the specified source of randomness.\n * \n * @throws NoSuchElementException if this char sequence is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun CharSequence.random(random: Random): Char {\n    if (isEmpty())\n        throw NoSuchElementException(\"Char sequence is empty.\")\n    return get(random.nextInt(length))\n}\n\n/**\n * Returns the single character, or throws an exception if the char sequence is empty or has more than one character.\n */\npublic fun CharSequence.single(): Char {\n    return when (length) {\n        0 -> throw NoSuchElementException(\"Char sequence is empty.\")\n        1 -> this[0]\n        else -> throw IllegalArgumentException(\"Char sequence has more than one element.\")\n    }\n}\n\n/**\n * Returns the single character matching the given [predicate], or throws exception if there is no or more than one matching character.\n */\npublic inline fun CharSequence.single(predicate: (Char) -> Boolean): Char {\n    var single: Char? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException(\"Char sequence contains more than one matching element.\")\n            single = element\n            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException(\"Char sequence contains no character matching the predicate.\")\n    @Suppress(\"UNCHECKED_CAST\")\n    return single as Char\n}\n\n/**\n * Returns single character, or `null` if the char sequence is empty or has more than one character.\n */\npublic fun CharSequence.singleOrNull(): Char? {\n    return if (length == 1) this[0] else null\n}\n\n/**\n * Returns the single character matching the given [predicate], or `null` if character was not found or more than one character was found.\n */\npublic inline fun CharSequence.singleOrNull(predicate: (Char) -> Boolean): Char? {\n    var single: Char? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns a subsequence of this char sequence with the first [n] characters removed.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.drop\n */\npublic fun CharSequence.drop(n: Int): CharSequence {\n    require(n >= 0) { \"Requested character count $n is less than zero.\" }\n    return subSequence(n.coerceAtMost(length), length)\n}\n\n/**\n * Returns a string with the first [n] characters removed.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
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samples.text.Strings.drop\n */\npublic fun String.drop(n: Int): String {\n   require(n >= 0) { \"Requested character count $n is less than zero.\" }\n   return substring(n.coerceAtMost(length))\n}\n\n/**\n * Returns a subsequence of this char sequence with the last [n] characters removed.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.drop\n */\npublic fun CharSequence.dropLast(n: Int): CharSequence {\n   require(n >= 0) { \"Requested character count $n is less than zero.\" }\n   return take((length - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a string with the last [n] characters removed.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.drop\n */\npublic fun String.dropLast(n: Int): String {\n   require(n >= 0) { \"Requested character count $n is less than zero.\" }\n   return take((length - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a subsequence of this char sequence containing all characters except last characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.drop\n */\npublic inline fun CharSequence.dropLastWhile(predicate: (Char) -> Boolean): CharSequence {\n   for (index in lastIndex downTo 0)\n   if (!predicate(this[index]))\n   return subSequence(0, index + 1)\n   return \"\"\n}\n\n/**\n * Returns a string containing all characters except last characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.drop\n */\npublic inline fun String.dropLastWhile(predicate: (Char) -> Boolean): String {\n   for (index in lastIndex downTo 0)\n   if (!predicate(this[index]))\n   return substring(0, index + 1)\n   return \"\"\n}\n\n/**\n * Returns a subsequence of this char sequence containing all characters except first characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.drop\n */\npublic inline fun CharSequence.dropWhile(predicate: (Char) -> Boolean): CharSequence {\n   for (index in this.indices)\n   if (!predicate(this[index]))\n   return subSequence(index, length)\n   return \"\"\n}\n\n/**\n * Returns a string containing all characters except first characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.drop\n */\npublic inline fun String.dropWhile(predicate: (Char) -> Boolean): String {\n   for (index in this.indices)\n   if (!predicate(this[index]))\n   return substring(index)\n   return \"\"\n}\n\n/**\n * Returns a char sequence containing only those characters from the original char sequence that match the given [predicate].\n */\npublic inline fun CharSequence.filter(predicate: (Char) -> Boolean): CharSequence {\n   return filterTo(StringBuilder(), predicate)\n}\n\n/**\n * Returns a string containing only those characters from the original string that match the given [predicate].\n */\npublic inline fun String.filter(predicate: (Char) -> Boolean): String {\n   return filterTo(StringBuilder(), predicate).toString()\n}\n\n/**\n * Returns a char sequence containing only those characters from the original char sequence that match the given [predicate].\n * @param [predicate] function that takes the index of a character and the character itself\n * and returns the result of predicate evaluation on the character.\n */\npublic inline fun CharSequence.filterIndexed(predicate: (index: Int, Char) -> Boolean): CharSequence {\n   return filterIndexedTo(StringBuilder(), predicate)\n}\n\n/**\n * Returns a string containing only those characters from the original string that match the given [predicate].\n * @param [predicate] function that takes the index of a character and the character itself\n * and returns the result of predicate evaluation on the character.\n */\npublic inline fun String.filterIndexed(predicate: (index: Int, Char) -> Boolean): String {\n   return filterIndexedTo(StringBuilder(), predicate).toString()\n}\n\n/**\n * Appends all characters matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of a character and the character itself\n * and returns the result of predicate evaluation on the character.\n */\npublic inline fun <C : Appendable> CharSequence.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element))\n   destination.append(element)\n   }\n   return destination\n}\n\n/**\n * Returns a char sequence containing only those characters from the original char sequence that do not match the given [predicate].\n */\npublic inline fun CharSequence.filterNot(predicate: (Char) -> Boolean): CharSequence {\n   return filterNotTo(StringBuilder(), predicate)\n}\n\n/**\n * Returns a string containing only those characters from the original string that do not match the given [predicate].\n */\npublic inline fun String.filterNot(predicate: (Char) -> Boolean): String {\n   return filterNotTo(StringBuilder(), predicate).toString()\n}\n\n/**\n * Appends all characters not matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : Appendable> CharSequence.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {\n   for (element in this) if (!predicate(element)) destination.append(element)\n   return destination\n}\n\n/**\n * Appends all characters

matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : Appendable> CharSequence.filterTo(destination: C, predicate: (Char) -> Boolean): C {\n for (index in 0 until length) {\n val element = get(index)\n if (predicate(element)) destination.append(element)\n }\n return destination\n}\n\n/**\n * Returns a char sequence containing characters of the original char sequence at the specified range of [indices].\n */\npublic fun CharSequence.slice(indices: IntRange): CharSequence {\n if (indices.isEmpty()) return \"\"\n return subSequence(indices)\n}\n\n/**\n * Returns a string containing characters of the original string at the specified range of [indices].\n */\npublic fun String.slice(indices: IntRange): String {\n if (indices.isEmpty()) return \"\"\n return substring(indices)\n}\n\n/**\n * Returns a char sequence containing characters of the original char sequence at specified [indices].\n */\npublic fun CharSequence.slice(indices: Iterable<Int>): CharSequence {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return \"\"\n val result = StringBuilder(size)\n for (i in indices) {\n result.append(get(i))\n }\n return result\n}\n\n/**\n * Returns a string containing characters of the original string at specified [indices].\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.slice(indices: Iterable<Int>): String {\n return (this as CharSequence).slice(indices).toString()\n}\n\n/**\n * Returns a subsequence of this char sequence containing the first [n] characters from this char sequence, or the entire char sequence if this char sequence is shorter.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.take\n */\npublic fun CharSequence.take(n: Int): CharSequence {\n require(n >= 0) { \"Requested character count $n is less than zero.\" }\n return subSequence(0, n.coerceAtMost(length))\n}\n\n/**\n * Returns a string containing the first [n] characters from this string, or the entire string if this string is shorter.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.take\n */\npublic fun String.take(n: Int): String {\n require(n >= 0) { \"Requested character count $n is less than zero.\" }\n return substring(0, n.coerceAtMost(length))\n}\n\n/**\n * Returns a subsequence of this char sequence containing the last [n] characters from this char sequence, or the entire char sequence if this char sequence is shorter.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.take\n */\npublic fun CharSequence.takeLast(n: Int): CharSequence {\n require(n >= 0) { \"Requested character count $n is less than zero.\" }\n val length = length\n return subSequence(length - n.coerceAtMost(length), length)\n}\n\n/**\n * Returns a string containing the last [n] characters from this string, or the entire string if this string is shorter.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.take\n */\npublic fun String.takeLast(n: Int): String {\n require(n >= 0) { \"Requested character count $n is less than zero.\" }\n val length = length\n return substring(length - n.coerceAtMost(length))\n}\n\n/**\n * Returns a subsequence of this char sequence containing last characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.take\n */\npublic inline fun CharSequence.takeLastWhile(predicate: (Char) -> Boolean): CharSequence {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return subSequence(index + 1, length)\n }\n }\n return subSequence(0, length)\n}\n\n/**\n * Returns a string containing last characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.take\n */\npublic inline fun String.takeLastWhile(predicate: (Char) -> Boolean): String {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return substring(index + 1)\n }\n }\n return this\n}\n\n/**\n * Returns a subsequence of this char sequence containing the first characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.take\n */\npublic inline fun CharSequence.takeWhile(predicate: (Char) -> Boolean): CharSequence {\n for (index in 0 until length)\n if (!predicate(get(index))) {\n return subSequence(0, index)\n }\n return subSequence(0, length)\n}\n\n/**\n * Returns a string containing the first characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.take\n */\npublic inline fun String.takeWhile(predicate: (Char) -> Boolean): String {\n for (index in 0 until length)\n if (!predicate(get(index))) {\n return substring(0, index)\n }\n return this\n}\n\n/**\n * Returns a char sequence with characters in reversed order.\n */\npublic fun CharSequence.reversed(): CharSequence {\n return StringBuilder(this).reverse()\n}\n\n/**\n * Returns a string with characters in reversed order.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.reversed(): String {\n return (this as CharSequence).reversed().toString()\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by

[transform] function\n * applied to characters of the given char sequence.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original char sequence.\n */\npublic inline fun <K, V> CharSequence.associate(transform: (Char) -> Pair<K, V>): Map<K, V> {\n val capacity = mapCapacity(length).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing the characters from the given char sequence indexed by the key\n * returned from [keySelector] function applied to each character.\n * \n * If any two characters would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original char sequence.\n */\npublic inline fun <K> CharSequence.associateBy(keySelector: (Char) -> K): Map<K, Char> {\n val capacity = mapCapacity(length).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Char>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to characters of the given char sequence.\n * \n * If any two characters would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original char sequence.\n */\npublic inline fun <K, V> CharSequence.associateBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, V> {\n val capacity = mapCapacity(length).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each character of the given char sequence\n * and value is the character itself.\n * \n * If any two characters would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, M : MutableMap<in K, in Char>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to characters of the given char sequence.\n * \n * If any two characters would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each character of the given char sequence.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateTo(destination: M, transform: (Char) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Returns a [Map] where keys are characters from the given char sequence and values are\n * produced by the [valueSelector] function applied to each character.\n * \n * If any two characters are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original char sequence.\n * \n * @sample samples.text.Strings.associateWith\n */\n@SinceKotlin(\"1.3\")\npublic inline fun <V> CharSequence.associateWith(valueSelector: (Char) -> V): Map<Char, V> {\n val result = LinkedHashMap<Char, V>(mapCapacity(length).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each character of the given char sequence,\n * where key is the character itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two characters are equal, the last one overwrites the former value in the map.\n */\n@SinceKotlin(\"1.3\")\npublic inline fun <V, M : MutableMap<in Char, in V>> CharSequence.associateWithTo(destination: M, valueSelector: (Char) -> V): M {\n for (element in this) {\n destination.put(element, valueSelector(element))\n }\n return destination\n}\n\n/**\n * Appends all characters to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Char>> CharSequence.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Returns a [HashSet] of all characters.\n */\npublic fun CharSequence.toHashSet(): HashSet<Char> {\n return toCollection(HashSet<Char>(mapCapacity(length)))\n}\n\n/**\n * Returns a [List]

containing all characters.\n */\npublic fun CharSequence.toList(): List<Char> {\n return when (length) {\n 0 -> emptyList()\n 1 -> listOf(this[0])\n else -> this.toMutableList()\n }\n}\n\n/**\n * Returns a [MutableList] filled with all characters of this char sequence.\n */\npublic fun CharSequence.toMutableList(): MutableList<Char> {\n return toCollection(ArrayList<Char>(length))\n}\n\n/**\n * Returns a [Set] of all characters.\n * \n * The returned set preserves the element iteration order of the original char sequence.\n */\npublic fun CharSequence.toSet(): Set<Char> {\n return when (length) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else -> toCollection(LinkedHashSet<Char>(mapCapacity(length)))\n }\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each character of original char sequence.\n */\npublic inline fun <R> CharSequence.flatMap(transform: (Char) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each character of original char sequence, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> CharSequence.flatMapTo(destination: C, transform: (Char) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Groups characters of the original char sequence by the key returned by the given [keySelector] function\n * applied to each character and returns a map where each group key is associated with a list of corresponding characters.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original char sequence.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> CharSequence.groupBy(keySelector: (Char) -> K): Map<K, List<Char>> {\n return groupByTo(LinkedHashMap<K, MutableList<Char>>(), keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each character of the original char sequence\n * by the key returned by the given [keySelector] function applied to the character\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original char sequence.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> CharSequence.groupBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups characters of the original char sequence by the key returned by the given [keySelector] function\n * applied to each character and puts to the [destination] map each group key associated with a list of corresponding characters.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Char>>> CharSequence.groupByTo(destination: M, keySelector: (Char) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Char>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each character of the original char sequence\n * by the key returned by the given [keySelector] function applied to the character\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> CharSequence.groupByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Creates a [Grouping] source from a char sequence to be used later with one of group-and-fold operations\n * using the specified [keySelector] function to extract a key from each character.\n * \n * @sample samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <K> CharSequence.groupingBy(crossinline keySelector: (Char) -> K): Grouping<Char, K> {\n return object : Grouping<Char, K> {\n override fun sourceIterator(): Iterator<Char> = this@groupingBy.iterator()\n override fun keyOf(element: Char): K = keySelector(element)\n }\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each character in the original char sequence.\n * \n * @sample samples.text.Strings.map\n */\npublic inline fun <R> CharSequence.map(transform: (Char) -> R): List<R> {\n return mapTo(ArrayList<R>(length), transform)\n}\n\n/**\n * Returns a list containing the results of

applying the given [transform] function\n * to each character and its index in the original char sequence.\n * @param [transform] function that takes the index of a character and the character itself\n * and returns the result of the transform applied to the character.\n */\npublic inline fun <R> CharSequence.mapIndexed(transform: (index: Int, Char) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(length), transform)\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each character and its index in the original char sequence.\n * @param [transform] function that takes the index of a character and the character itself\n * and returns the result of the transform applied to the character.\n */\npublic inline fun <R : Any> CharSequence.mapIndexedNotNull(transform: (index: Int, Char) -> R?): List<R> {\n return mapIndexedNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each character and its index in the original char sequence\n * and appends only the non-null results to the given [destination].\n * @param [transform] function that takes the index of a character and the character itself\n * and returns the result of the transform applied to the character.\n */\npublic inline fun <R : Any, C : MutableCollection<in R>> CharSequence.mapIndexedNotNullTo(destination: C, transform: (index: Int, Char) -> R?): C {\n forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }\n return destination\n}\n\n/**\n * Applies the given [transform] function to each character and its index in the original char sequence\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of a character and the character itself\n * and returns the result of the transform applied to the character.\n */\npublic inline fun <R, C : MutableCollection<in R>> CharSequence.mapIndexedTo(destination: C, transform: (index: Int, Char) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each character in the original char sequence.\n */\npublic inline fun <R : Any> CharSequence.mapNotNull(transform: (Char) -> R?): List<R> {\n return mapNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each character in the original char sequence\n * and appends only the non-null results to the given [destination].\n */\npublic inline fun <R : Any, C : MutableCollection<in R>> CharSequence.mapNotNullTo(destination: C, transform: (Char) -> R?): C {\n forEach { element -> transform(element)?.let { destination.add(it) } }\n return destination\n}\n\n/**\n * Applies the given [transform] function to each character of the original char sequence\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> CharSequence.mapTo(destination: C, transform: (Char) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each character of the original char sequence\n * into an [IndexedValue] containing the index of that character and the character itself.\n */\npublic fun CharSequence.withIndex(): Iterable<IndexedValue<Char>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns `true` if all characters match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun CharSequence.all(predicate: (Char) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if char sequence has at least one character.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun CharSequence.any(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if at least one character matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun CharSequence.any(predicate: (Char) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns the length of this char sequence.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.count(): Int {\n return length\n}\n\n/**\n * Returns the number of characters matching the given [predicate].\n */\npublic inline fun CharSequence.count(predicate: (Char) -> Boolean): Int {\n var count = 0\n for (element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each character.\n */\npublic inline fun <R> CharSequence.fold(initial: R, operation: (acc: R, Char) -> R): R {\n var accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator

value and each character with its index in the original char sequence.\n * @param [operation] function that takes the index of a character, current accumulator value\n * and the character itself, and calculates the next accumulator value.\n */\npublic inline fun <R> CharSequence.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each character and current accumulator value.\n */\npublic inline fun <R> CharSequence.foldRight(initial: R, operation: (Char, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each character with its index in the original char sequence and current accumulator value.\n * @param [operation] function that takes the index of a character, the character itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> CharSequence.foldRightIndexed(initial: R, operation: (index: Int, Char, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Performs the given [action] on each character.\n */\npublic inline fun CharSequence.forEach(action: (Char) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each character, providing sequential index with the character.\n * @param [action] function that takes the index of a character and the character itself\n * and performs the desired action on the character.\n */\npublic inline fun CharSequence.forEachIndexed(action: (index: Int, Char) -> Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Returns the largest character or `null` if there are no characters.\n */\npublic fun CharSequence.max(): Char? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the first character yielding the largest value of the given function or `null` if there are no characters.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>> CharSequence.maxBy(selector: (Char) -> R): Char? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first character having the largest value according to the provided [comparator] or `null` if there are no characters.\n */\npublic fun CharSequence.maxWith(comparator: Comparator<in Char>): Char? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the smallest character or `null` if there are no characters.\n */\npublic fun CharSequence.min(): Char? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the first character yielding the smallest value of the given function or `null` if there are no characters.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R : Comparable<R>> CharSequence.minBy(selector: (Char) -> R): Char? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first character having the smallest value according to the provided [comparator] or `null` if there are no characters.\n */\npublic fun CharSequence.minWith(comparator: Comparator<in Char>): Char? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns `true` if the char sequence has no characters.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun CharSequence.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if no characters match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun CharSequence.none(predicate: (Char) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return

false\n   return true\n}\n\n/**\n * Performs the given [action] on each character and returns the char sequence itself afterwards.\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <S : CharSequence> S.onEach(action: (Char) -> Unit): S {\n   return apply { for (element in this) action(element) }\n}\n\n/**\n * Accumulates value starting with the first character and applying [operation] from left to right to current accumulator value and each character.\n */\npublic inline fun CharSequence.reduce(operation: (acc: Char, Char) -> Char): Char {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty char sequence can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first character and applying [operation] from left to right\n * to current accumulator value and each character with its index in the original char sequence.\n * @param [operation] function that takes the index of a character, current accumulator value\n * and the character itself and calculates the next accumulator value.\n */\npublic inline fun CharSequence.reduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): Char {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty char sequence can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with last character and applying [operation] from right to left to each character and current accumulator value.\n */\npublic inline fun CharSequence.reduceRight(operation: (Char, acc: Char) -> Char): Char {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty char sequence can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with last character and applying [operation] from right to left\n * to each character with its index in the original char sequence and current accumulator value.\n * @param [operation] function that takes the index of a character, the character itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun CharSequence.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty char sequence can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each character in the char sequence.\n */\npublic inline fun CharSequence.sumBy(selector: (Char) -> Int): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each character in the char sequence.\n */\npublic inline fun CharSequence.sumByDouble(selector: (Char) -> Double): Double {\n   var sum: Double = 0.0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Splits this char sequence into a list of strings each not exceeding the given [size].\n * \n * The last string in the resulting list may have less characters than the given [size].\n * \n * @param size the number of elements to take in each string, must be positive and can be greater than the number of elements in this char sequence.\n * \n * @sample samples.collections.Collections.Transformations.chunked\n */\n@SinceKotlin(\"1.2\")\npublic fun CharSequence.chunked(size: Int): List<String> {\n   return windowed(size, size, partialWindows = true)\n}\n\n/**\n * Splits this char sequence into several char sequences each not exceeding the given [size]\n * and applies the given [transform] function to an each.\n * \n * @return list of results of the [transform] applied to an each char sequence.\n * \n * Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * The last char sequence may have less characters than the given [size].\n * \n * @param size the number of elements to take in each char sequence, must be positive and can be greater than the number of elements in this char sequence.\n * \n * @sample samples.text.Strings.chunkedTransform\n */\n@SinceKotlin(\"1.2\")\npublic fun <R> CharSequence.chunked(size: Int, transform: (CharSequence) -> R): List<R> {\n   return windowed(size, size, partialWindows = true, transform = transform)\n}\n\n/**\n * Splits this char sequence into a sequence of strings each not exceeding the given [size].\n * \n * The last string in the resulting sequence may have less characters than the given [size].\n * \n * @param size the number of elements to take in each string, must be positive and can be greater than the number of elements in this char sequence.\n * \n * @sample

samples.collections.Collections.Transformations.chunked\n */\n@SinceKotlin(\"1.2\")\npublic fun CharSequence.chunkedSequence(size: Int): Sequence<String> {\n   return chunkedSequence(size) { it.toString() }\n}\n\n/**\n * Splits this char sequence into several char sequences each not exceeding the given [size]\n * and applies the given [transform] function to an each.\n * \n * @return sequence of results of the [transform] applied to an each char sequence.\n * \n * Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * The last char sequence may have less characters than the given [size].\n * \n * @param size the number of elements to take in each char sequence, must be positive and can be greater than the number of elements in this char sequence.\n * \n * @sample samples.text.Strings.chunkedTransformToSequence\n */\n@SinceKotlin(\"1.2\")\npublic fun <R> CharSequence.chunkedSequence(size: Int, transform: (CharSequence) -> R): Sequence<R> {\n   return windowedSequence(size, size, partialWindows = true, transform = transform)\n}\n\n/**\n * Splits the original char sequence into pair of char sequences,\n * where *first* char sequence contains characters for which [predicate] yielded `true`,\n * while *second* char sequence contains characters for which [predicate] yielded `false`.\n */\npublic inline fun CharSequence.partition(predicate: (Char) -> Boolean): Pair<CharSequence, CharSequence> {\n   val first = StringBuilder()\n   val second = StringBuilder()\n   for (element in this) {\n   if (predicate(element)) {\n   first.append(element)\n   } else {\n   second.append(element)\n   }\n   }\n   return Pair(first, second)\n}\n\n/**\n * Splits the original string into pair of strings,\n * where *first* string contains characters for which [predicate] yielded `true`,\n * while *second* string contains characters for which [predicate] yielded `false`.\n */\npublic inline fun String.partition(predicate: (Char) -> Boolean): Pair<String, String> {\n   val first = StringBuilder()\n   val second = StringBuilder()\n   for (element in this) {\n   if (predicate(element)) {\n   first.append(element)\n   } else {\n   second.append(element)\n   }\n   }\n   return Pair(first.toString(), second.toString())\n}\n\n/**\n * Returns a list of snapshots of the window of the given [size]\n * sliding along this char sequence with the given [step], where each\n * snapshot is a string.\n * \n * Several last strings may have less characters than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.takeWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun CharSequence.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<String> {\n   return windowed(size, step, partialWindows) { it.toString() }\n}\n\n/**\n * Returns a list of results of applying the given [transform] function to\n * an each char sequence representing a view over the window of the given [size]\n * sliding along this char sequence with the given [step].\n * \n * Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * Several last char sequences may have less characters than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.averageWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun <R> CharSequence.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (CharSequence) -> R): List<R> {\n   checkWindowSizeStep(size, step)\n   val thisSize = this.length\n   val result = ArrayList<R>((thisSize + step - 1) / step)\n   var index = 0\n   while (index < thisSize) {\n   val end = index + size\n   val coercedEnd = if (end > thisSize) { if (partialWindows) thisSize else break } else end\n   result.add(transform(subSequence(index, coercedEnd)))\n   index += step\n   }\n   return result\n}\n\n/**\n * Returns a sequence of snapshots of the window of the given [size]\n * sliding along this char sequence with the given [step], where each\n * snapshot is a string.\n * \n * Several last strings may have less characters than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number

of elements in this char sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.takeWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows: Boolean = false): Sequence<String> {\n   return windowedSequence(size, step, partialWindows) { it.toString() }\n}\n\n/**\n * Returns a sequence of results of applying the given [transform] function to\n * an each char sequence representing a view over the window of the given [size]\n * sliding along this char sequence with the given [step].\n * \n * Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * Several last char sequences may have less characters than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.averageWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun <R> CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (CharSequence) -> R): Sequence<R> {\n   checkWindowSizeStep(size, step)\n   val windows = (if (partialWindows) indices else 0 until length - size + 1) step step\n   return windows.asSequence().map { index -> transform(subSequence(index, (index + size).coerceAtMost(length))) }\n}\n\n/**\n * Returns a list of pairs built from the characters of `this` and the [other] char sequences with the same index\n * The returned list has length of the shortest char sequence.\n * \n * @sample samples.text.Strings.zip\n */\npublic infix fun CharSequence.zip(other: CharSequence): List<Pair<Char, Char>> {\n   return zip(other) { c1, c2 -> c1 to c2 }\n}\n\n/**\n * Returns a list of values built from the characters of `this` and the [other] char sequences with the same index\n * using the provided [transform] function applied to each pair of characters.\n * The returned list has length of the shortest char sequence.\n * \n * @sample samples.text.Strings.zipWithTransform\n */\npublic inline fun <V> CharSequence.zip(other: CharSequence, transform: (a: Char, b: Char) -> V): List<V> {\n   val length = minOf(this.length, other.length)\n   val list = ArrayList<V>(length)\n   for (i in 0 until length) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of pairs of each two adjacent characters in this char sequence.\n * \n * The returned list is empty if this char sequence contains less than two characters.\n * \n * @sample samples.collections.Collections.Transformations.zipWithNext\n */\n@SinceKotlin(\"1.2\")\npublic fun CharSequence.zipWithNext(): List<Pair<Char, Char>> {\n   return zipWithNext { a, b -> a to b }\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to an each pair of two adjacent characters in this char sequence.\n * \n * The returned list is empty if this char sequence contains less than two characters.\n * \n * @sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas\n */\n@SinceKotlin(\"1.2\")\npublic inline fun <R> CharSequence.zipWithNext(transform: (a: Char, b: Char) -> R): List<R> {\n   val size = length - 1\n   if (size < 1) return emptyList()\n   val result = ArrayList<R>(size)\n   for (index in 0 until size) {\n   result.add(transform(this[index], this[index + 1]))\n   }\n   return result\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original char sequence returning its characters when being iterated.\n */\npublic fun CharSequence.asIterable(): Iterable<Char> {\n   if (this is String && isEmpty()) return emptyList()\n   return Iterable { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original char sequence returning its characters when being iterated.\n */\npublic fun CharSequence.asSequence(): Sequence<Char> {\n   if (this is String && isEmpty()) return emptySequence()\n   return Sequence { this.iterator() }\n}\n\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"StringsKt\")\r\n\r\npackage kotlin.text\r\n\r\nimport kotlin.contracts.contract\r\n\r\n/**\r\n * Returns a sub sequence of this char sequence

having leading and trailing characters matching the [predicate] removed.\r\n */\r\npublic inline fun CharSequence.trim(predicate: (Char) -> Boolean): CharSequence {\r\n var startIndex = 0\r\n var endIndex = length - 1\r\n var startFound = false\r\n\r\n while (startIndex <= endIndex) {\r\n val index = if (!startFound) startIndex else endIndex\r\n val match = predicate(this[index])\r\n\r\n if (!startFound) {\r\n if (!match)\r\n startFound = true\r\n else\r\n startIndex += 1\r\n } else {\r\n if (!match)\r\n break\r\n else\r\n endIndex -= 1\r\n }\r\n }\r\n\r\n return subSequence(startIndex, endIndex + 1)\r\n}\r\n\r\n/**\r\n * Returns a string having leading and trailing characters matching the [predicate] removed.\r\n */\r\npublic inline fun String.trim(predicate: (Char) -> Boolean): String =\r\n (this as CharSequence).trim(predicate).toString()\r\n\r\n/**\r\n * Returns a sub sequence of this char sequence having leading characters matching the [predicate] removed.\r\n */\r\npublic inline fun CharSequence.trimStart(predicate: (Char) -> Boolean): CharSequence {\r\n for (index in this.indices)\r\n if (!predicate(this[index]))\r\n return subSequence(index, length)\r\n\r\n return \"\"\r\n}\r\n\r\n/**\r\n * Returns a string having leading characters matching the [predicate] removed.\r\n */\r\npublic inline fun String.trimStart(predicate: (Char) -> Boolean): String =\r\n (this as CharSequence).trimStart(predicate).toString()\r\n\r\n/**\r\n * Returns a sub sequence of this char sequence having trailing characters matching the [predicate] removed.\r\n */\r\npublic inline fun CharSequence.trimEnd(predicate: (Char) -> Boolean): CharSequence {\r\n for (index in this.indices.reversed())\r\n if (!predicate(this[index]))\r\n return subSequence(0, index + 1)\r\n\r\n return \"\"\r\n}\r\n\r\n/**\r\n * Returns a string having trailing characters matching the [predicate] removed.\r\n */\r\npublic inline fun String.trimEnd(predicate: (Char) -> Boolean): String =\r\n (this as CharSequence).trimEnd(predicate).toString()\r\n\r\n/**\r\n * Returns a sub sequence of this char sequence having leading and trailing characters from the [chars] array removed.\r\n */\r\npublic fun CharSequence.trim(vararg chars: Char): CharSequence = trim { it in chars }\r\n\r\n/**\r\n * Returns a string having leading and trailing characters from the [chars] array removed.\r\n */\r\npublic fun String.trim(vararg chars: Char): String = trim { it in chars }\r\n\r\n/**\r\n * Returns a sub sequence of this char sequence having leading characters from the [chars] array removed.\r\n */\r\npublic fun CharSequence.trimStart(vararg chars: Char): CharSequence = trimStart { it in chars }\r\n\r\n/**\r\n * Returns a string having leading characters from the [chars] array removed.\r\n */\r\npublic fun String.trimStart(vararg chars: Char): String = trimStart { it in chars }\r\n\r\n/**\r\n * Returns a sub sequence of this char sequence having trailing characters from the [chars] array removed.\r\n */\r\npublic fun CharSequence.trimEnd(vararg chars: Char): CharSequence = trimEnd { it in chars }\r\n\r\n/**\r\n * Returns a string having trailing characters from the [chars] array removed.\r\n */\r\npublic fun String.trimEnd(vararg chars: Char): String = trimEnd { it in chars }\r\n\r\n/**\r\n * Returns a sub sequence of this char sequence having leading and trailing whitespace removed.\r\n */\r\npublic fun CharSequence.trim(): CharSequence = trim(Char::isWhitespace)\r\n\r\n/**\r\n * Returns a string having leading and trailing whitespace removed.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun String.trim(): String = (this as CharSequence).trim().toString()\r\n\r\n/**\r\n * Returns a sub sequence of this char sequence having leading whitespace removed.\r\n */\r\npublic fun CharSequence.trimStart(): CharSequence = trimStart(Char::isWhitespace)\r\n\r\n/**\r\n * Returns a string having leading whitespace removed.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun String.trimStart(): String = (this as CharSequence).trimStart().toString()\r\n\r\n/**\r\n * Returns a sub sequence of this char sequence having trailing whitespace removed.\r\n */\r\npublic fun CharSequence.trimEnd(): CharSequence = trimEnd(Char::isWhitespace)\r\n\r\n/**\r\n * Returns a string having trailing whitespace removed.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun String.trimEnd(): String = (this as CharSequence).trimEnd().toString()\r\n\r\n/**\r\n * Returns a char sequence with content of this char sequence padded at the beginning\r\n * to the specified [length] with the specified character or space.\r\n *\r\n * @param length the desired string length.\r\n * @param padChar the character to pad string with, if it has length less than the [length] specified. Space is used by default.\r\n * @return Returns a char sequence of length at least [length] consisting of `this` char sequence prepended with [padChar] as many times\r\n * as are necessary to reach that

length.\r\n * @sample samples.text.Strings.padStart\r\n */\r\npublic fun CharSequence.padStart(length: Int, padChar: Char = ' '): CharSequence {\r\n if (length < 0)\r\n throw IllegalArgumentException(\"Desired length $length is less than zero.\")\r\n if (length <= this.length)\r\n return this.subSequence(0, this.length)\r\n\r\n val sb = StringBuilder(length)\r\n for (i in 1..(length - this.length))\r\n sb.append(padChar)\r\n sb.append(this)\r\n return sb\r\n}\r\n\r\n/**\r\n * Pads the string to the specified [length] at the beginning with the specified character or space.\r\n *\r\n * @param length the desired string length.\r\n * @param padChar the character to pad string with, if it has length less than the [length] specified. Space is used by default.\r\n * @return Returns a string of length at least [length] consisting of `this` string prepended with [padChar] as many times\r\n * as are necessary to reach that length.\r\n * @sample samples.text.Strings.padStart\r\n */\r\npublic fun String.padStart(length: Int, padChar: Char = ' '): String =\r\n (this as CharSequence).padStart(length, padChar).toString()\r\n\r\n/**\r\n * Returns a char sequence with content of this char sequence padded at the end\r\n * to the specified [length] with the specified character or space.\r\n *\r\n * @param length the desired string length.\r\n * @param padChar the character to pad string with, if it has length less than the [length] specified. Space is used by default.\r\n * @return Returns a char sequence of length at least [length] consisting of `this` char sequence appended with [padChar] as many times\r\n * as are necessary to reach that length.\r\n * @sample samples.text.Strings.padEnd\r\n */\r\npublic fun CharSequence.padEnd(length: Int, padChar: Char = ' '): CharSequence {\r\n if (length < 0)\r\n throw IllegalArgumentException(\"Desired length $length is less than zero.\")\r\n if (length <= this.length)\r\n return this.subSequence(0, this.length)\r\n\r\n val sb = StringBuilder(length)\r\n sb.append(this)\r\n for (i in 1..(length - this.length))\r\n sb.append(padChar)\r\n return sb\r\n}\r\n\r\n/**\r\n * Pads the string to the specified [length] at the end with the specified character or space.\r\n *\r\n * @param length the desired string length.\r\n * @param padChar the character to pad string with, if it has length less than the [length] specified. Space is used by default.\r\n * @return Returns a string of length at least [length] consisting of `this` string appended with [padChar] as many times\r\n * as are necessary to reach that length.\r\n * @sample samples.text.Strings.padEnd\r\n */\r\npublic fun String.padEnd(length: Int, padChar: Char = ' '): String =\r\n (this as CharSequence).padEnd(length, padChar).toString()\r\n\r\n/**\r\n * Returns `true` if this nullable char sequence is either `null` or empty.\r\n *\r\n * @sample samples.text.Strings.stringIsNullOrEmpty\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun CharSequence?.isNullOrEmpty(): Boolean {\r\n contract {\r\n returns(false) implies (this@isNullOrEmpty != null)\r\n }\r\n\r\n return this == null || this.length == 0\r\n}\r\n\r\n/**\r\n * Returns `true` if this char sequence is empty (contains no characters).\r\n *\r\n * @sample samples.text.Strings.stringIsEmpty\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun CharSequence.isEmpty(): Boolean = length == 0\r\n\r\n/**\r\n * Returns `true` if this char sequence is not empty.\r\n *\r\n * @sample samples.text.Strings.stringIsNotEmpty\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun CharSequence.isNotEmpty(): Boolean = length > 0\r\n\r\n// implemented differently in JVM and JS\r\n//public fun String.isBlank(): Boolean = length() == 0 || all { it.isWhitespace() }\r\n\r\n/**\r\n * Returns `true` if this char sequence is not empty and contains some characters except of whitespace characters.\r\n *\r\n * @sample samples.text.Strings.stringIsNotBlank\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun CharSequence.isNotBlank(): Boolean = !isBlank()\r\n\r\n/**\r\n * Returns `true` if this nullable char sequence is either `null` or empty or consists solely of whitespace characters.\r\n *\r\n * @sample samples.text.Strings.stringIsNullOrBlank\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun CharSequence?.isNullOrBlank(): Boolean {\r\n contract {\r\n returns(false) implies (this@isNullOrBlank != null)\r\n }\r\n\r\n return this == null || this.isBlank()\r\n}\r\n\r\n/**\r\n * Iterator for characters of the given char sequence.\r\n */\r\npublic operator fun CharSequence.iterator(): CharIterator = object : CharIterator() {\r\n private var index = 0\r\n\r\n public override fun nextChar(): Char = get(index++)\r\n\r\n public override fun hasNext(): Boolean = index < length\r\n}\r\n\r\n/** Returns the string if it is not `null`, or the empty string otherwise. */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun String?.orEmpty(): String = this ?: \"\"\r\n\r\n/**\r\n * Returns this char sequence if it's not empty\r\n * or the result of calling [defaultValue] function if the char sequence is empty.\r\n *\r\n * @sample samples.text.Strings.stringIfEmpty\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <C, R> C.ifEmpty(defaultValue: () -

> R): R where C : CharSequence, C : R =\r\n   if (isEmpty()) defaultValue() else this\r\n\r\n/**\r\n * Returns this char sequence if it is not empty and doesn't consist solely of whitespace characters,\r\n * or the result of calling [defaultValue] function otherwise.\r\n *\r\n * @sample samples.text.Strings.stringIfBlank\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <C, R> C.ifBlank(defaultValue: () -> R): R where C : CharSequence, C : R =\r\n   if (isBlank()) defaultValue() else this\r\n\r\n/**\r\n * Returns the range of valid character indices for this char sequence.\r\n */\r\npublic val CharSequence.indices: IntRange\r\n   get() = 0..length - 1\r\n\r\n/**\r\n * Returns the index of the last character in the char sequence or -1 if it is empty.\r\n */\r\npublic val CharSequence.lastIndex: Int\r\n   get() = this.length - 1\r\n\r\n/**\r\n * Returns `true` if this CharSequence has Unicode surrogate pair at the specified [index].\r\n */\r\npublic fun CharSequence.hasSurrogatePairAt(index: Int): Boolean {\r\n   return index in 0..length - 2\r\n   && this[index].isHighSurrogate()\r\n   && this[index + 1].isLowSurrogate()\r\n}\r\n\r\n/**\r\n * Returns a substring specified by the given [range] of indices.\r\n */\r\npublic fun String.substring(range: IntRange): String = substring(range.start, range.endInclusive + 1)\r\n\r\n/**\r\n * Returns a subsequence of this char sequence specified by the given [range] of indices.\r\n */\r\npublic fun CharSequence.subSequence(range: IntRange): CharSequence = subSequence(range.start, range.endInclusive + 1)\r\n\r\n/**\r\n * Returns a subsequence of this char sequence.\r\n *\r\n * This extension is chosen only for invocation with old-named parameters.\r\n * Replace parameter names with the same as those of [CharSequence.subSequence].\r\n */\r\n@kotlin.internal.InlineOnly\r\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\") // false warning\r\n@Deprecated(\"Use parameters named startIndex and endIndex.\", ReplaceWith(\"subSequence(startIndex = start, endIndex = end)\"))\r\npublic inline fun String.subSequence(start: Int, end: Int): CharSequence = subSequence(start, end)\r\n\r\n/**\r\n * Returns a substring of chars from a range of this char sequence starting at the [startIndex] and ending right before the [endIndex].\r\n *\r\n * @param startIndex the start index (inclusive).\r\n * @param endIndex the end index (exclusive). If not specified, the length of the char sequence is used.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun CharSequence.substring(startIndex: Int, endIndex: Int = length): String = subSequence(startIndex, endIndex).toString()\r\n\r\n/**\r\n * Returns a substring of chars at indices from the specified [range] of this char sequence.\r\n */\r\npublic fun CharSequence.substring(range: IntRange): String = subSequence(range.start, range.endInclusive + 1).toString()\r\n\r\n/**\r\n * Returns a substring before the first occurrence of [delimiter].\r\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\r\n */\r\npublic fun String.substringBefore(delimiter: Char, missingDelimiterValue: String = this): String {\r\n   val index = indexOf(delimiter)\r\n   return if (index == -1) missingDelimiterValue else substring(0, index)\r\n}\r\n\r\n/**\r\n * Returns a substring before the first occurrence of [delimiter].\r\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\r\n */\r\npublic fun String.substringBefore(delimiter: String, missingDelimiterValue: String = this): String {\r\n   val index = indexOf(delimiter)\r\n   return if (index == -1) missingDelimiterValue else substring(0, index)\r\n}\r\n\r\n/**\r\n * Returns a substring after the first occurrence of [delimiter].\r\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\r\n */\r\npublic fun String.substringAfter(delimiter: Char, missingDelimiterValue: String = this): String {\r\n   val index = indexOf(delimiter)\r\n   return if (index == -1) missingDelimiterValue else substring(index + 1, length)\r\n}\r\n\r\n/**\r\n * Returns a substring after the first occurrence of [delimiter].\r\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\r\n */\r\npublic fun String.substringAfter(delimiter: String, missingDelimiterValue: String = this): String {\r\n   val index = indexOf(delimiter)\r\n   return if (index == -1) missingDelimiterValue else substring(index + delimiter.length, length)\r\n}\r\n\r\n/**\r\n * Returns a substring before the last occurrence of [delimiter].\r\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\r\n */\r\npublic fun String.substringBeforeLast(delimiter: Char, missingDelimiterValue: String = this): String {\r\n   val index = lastIndexOf(delimiter)\r\n   return if (index == -1) missingDelimiterValue else substring(0, index)\r\n}\r\n\r\n/**\r\n * Returns a substring before the last occurrence of [delimiter].\r\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\r\n */\r\npublic fun

String.substringBeforeLast(delimiter: String, missingDelimiterValue: String = this): String {\r\n val index = lastIndexOf(delimiter)\r\n return if (index == -1) missingDelimiterValue else substring(0, index)\r\n}\r\n\r\n/**\r\n * Returns a substring after the last occurrence of [delimiter].\r\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\r\n */\r\npublic fun String.substringAfterLast(delimiter: Char, missingDelimiterValue: String = this): String {\r\n val index = lastIndexOf(delimiter)\r\n return if (index == -1) missingDelimiterValue else substring(index + 1, length)\r\n}\r\n\r\n/**\r\n * Returns a substring after the last occurrence of [delimiter].\r\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\r\n */\r\npublic fun String.substringAfterLast(delimiter: String, missingDelimiterValue: String = this): String {\r\n val index = lastIndexOf(delimiter)\r\n return if (index == -1) missingDelimiterValue else substring(index + delimiter.length, length)\r\n}\r\n\r\n/**\r\n * Returns a char sequence with content of this char sequence where its part at the given range\r\n * is replaced with the [replacement] char sequence.\r\n * @param startIndex the index of the first character to be replaced.\r\n * @param endIndex the index of the first character after the replacement to keep in the string.\r\n */\r\npublic fun CharSequence.replaceRange(startIndex: Int, endIndex: Int, replacement: CharSequence): CharSequence {\r\n if (endIndex < startIndex)\r\n throw IndexOutOfBoundsException(\"End index ($endIndex) is less than start index ($startIndex).\")\r\n val sb = StringBuilder()\r\n sb.append(this, 0, startIndex)\r\n sb.append(replacement)\r\n sb.append(this, endIndex, length)\r\n return sb\r\n}\r\n\r\n/**\r\n * Replaces the part of the string at the given range with the [replacement] char sequence.\r\n * @param startIndex the index of the first character to be replaced.\r\n * @param endIndex the index of the first character after the replacement to keep in the string.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun String.replaceRange(startIndex: Int, endIndex: Int, replacement: CharSequence): String =\r\n (this as CharSequence).replaceRange(startIndex, endIndex, replacement).toString()\r\n\r\n/**\r\n * Returns a char sequence with content of this char sequence where its part at the given [range]\r\n * is replaced with the [replacement] char sequence.\r\n *\r\n * The end index of the [range] is included in the part to be replaced.\r\n */\r\npublic fun CharSequence.replaceRange(range: IntRange, replacement: CharSequence): CharSequence =\r\n replaceRange(range.start, range.endInclusive + 1, replacement)\r\n\r\n/**\r\n * Replace the part of string at the given [range] with the [replacement] string.\r\n *\r\n * The end index of the [range] is included in the part to be replaced.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun String.replaceRange(range: IntRange, replacement: CharSequence): String =\r\n (this as CharSequence).replaceRange(range, replacement).toString()\r\n\r\n/**\r\n * Returns a char sequence with content of this char sequence where its part at the given range is removed.\r\n *\r\n * @param startIndex the index of the first character to be removed.\r\n * @param endIndex the index of the first character after the removed part to keep in the string.\r\n *\r\n * [endIndex] is not included in the removed part.\r\n */\r\npublic fun CharSequence.removeRange(startIndex: Int, endIndex: Int): CharSequence {\r\n if (endIndex < startIndex)\r\n throw IndexOutOfBoundsException(\"End index ($endIndex) is less than start index ($startIndex).\")\r\n\r\n if (endIndex == startIndex)\r\n return this.subSequence(0, length)\r\n\r\n val sb = StringBuilder(length - (endIndex - startIndex))\r\n sb.append(this, 0, startIndex)\r\n sb.append(this, endIndex, length)\r\n return sb\r\n}\r\n\r\n/**\r\n * Removes the part of a string at a given range.\r\n * @param startIndex the index of the first character to be removed.\r\n * @param endIndex the index of the first character after the removed part to keep in the string.\r\n *\r\n * [endIndex] is not included in the removed part.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun String.removeRange(startIndex: Int, endIndex: Int): String =\r\n (this as CharSequence).removeRange(startIndex, endIndex).toString()\r\n\r\n/**\r\n * Returns a char sequence with content of this char sequence where its part at the given [range] is removed.\r\n *\r\n * The end index of the [range] is included in the removed part.\r\n */\r\npublic fun CharSequence.removeRange(range: IntRange): CharSequence = removeRange(range.start, range.endInclusive + 1)\r\n\r\n/**\r\n * Removes the part of a string at the given [range].\r\n *\r\n * The end index of the [range] is included in the removed part.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun String.removeRange(range: IntRange): String =\r\n (this as CharSequence).removeRange(range).toString()\r\n\r\n/**\r\n * If this char sequence starts with the given [prefix], returns a new char sequence\r\n * with the prefix removed. Otherwise,

returns a new char sequence with the same characters.\r\n */\r\npublic fun CharSequence.removePrefix(prefix: CharSequence): CharSequence {\r\n   if (startsWith(prefix)) {\r\n   return subSequence(prefix.length, length)\r\n   }\r\n   return subSequence(0, length)\r\n}\r\n\r\n/**\r\n * If this string starts with the given [prefix], returns a copy of this string\r\n * with the prefix removed. Otherwise, returns this string.\r\n */\r\npublic fun String.removePrefix(prefix: CharSequence): String {\r\n   if (startsWith(prefix)) {\r\n   return substring(prefix.length)\r\n   }\r\n   return this\r\n}\r\n\r\n/**\r\n * If this char sequence ends with the given [suffix], returns a new char sequence\r\n * with the suffix removed. Otherwise, returns a new char sequence with the same characters.\r\n */\r\npublic fun CharSequence.removeSuffix(suffix: CharSequence): CharSequence {\r\n   if (endsWith(suffix)) {\r\n   return subSequence(0, length - suffix.length)\r\n   }\r\n   return subSequence(0, length)\r\n}\r\n\r\n/**\r\n * If this string ends with the given [suffix], returns a copy of this string\r\n * with the suffix removed. Otherwise, returns this string.\r\n */\r\npublic fun String.removeSuffix(suffix: CharSequence): String {\r\n   if (endsWith(suffix)) {\r\n   return substring(0, length - suffix.length)\r\n   }\r\n   return this\r\n}\r\n\r\n/**\r\n * When this char sequence starts with the given [prefix] and ends with the given [suffix],\r\n * returns a new char sequence having both the given [prefix] and [suffix] removed.\r\n * Otherwise returns a new char sequence with the same characters.\r\n */\r\npublic fun CharSequence.removeSurrounding(prefix: CharSequence, suffix: CharSequence): CharSequence {\r\n   if ((length >= prefix.length + suffix.length) && startsWith(prefix) && endsWith(suffix)) {\r\n   return subSequence(prefix.length, length - suffix.length)\r\n   }\r\n   return subSequence(0, length)\r\n}\r\n\r\n/**\r\n * Removes from a string both the given [prefix] and [suffix] if and only if\r\n * it starts with the [prefix] and ends with the [suffix].\r\n * Otherwise returns this string unchanged.\r\n */\r\npublic fun String.removeSurrounding(prefix: CharSequence, suffix: CharSequence): String {\r\n   if ((length >= prefix.length + suffix.length) && startsWith(prefix) && endsWith(suffix)) {\r\n   return substring(prefix.length, length - suffix.length)\r\n   }\r\n   return this\r\n}\r\n\r\n/**\r\n * When this char sequence starts with and ends with the given [delimiter],\r\n * returns a new char sequence having this [delimiter] removed both from the start and end.\r\n * Otherwise returns a new char sequence with the same characters.\r\n */\r\npublic fun CharSequence.removeSurrounding(delimiter: CharSequence): CharSequence = removeSurrounding(delimiter, delimiter)\r\n\r\n/**\r\n * Removes the given [delimiter] string from both the start and the end of this string\r\n * if and only if it starts with and ends with the [delimiter].\r\n * Otherwise returns this string unchanged.\r\n */\r\npublic fun String.removeSurrounding(delimiter: CharSequence): String = removeSurrounding(delimiter, delimiter)\r\n\r\n/**\r\n * Replace part of string before the first occurrence of given delimiter with the [replacement] string.\r\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\r\n */\r\npublic fun String.replaceBefore(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\r\n   val index = indexOf(delimiter)\r\n   return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)\r\n}\r\n\r\n/**\r\n * Replace part of string before the first occurrence of given delimiter with the [replacement] string.\r\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\r\n */\r\npublic fun String.replaceBefore(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {\r\n   val index = indexOf(delimiter)\r\n   return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)\r\n}\r\n\r\n/**\r\n * Replace part of string after the first occurrence of given delimiter with the [replacement] string.\r\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\r\n */\r\npublic fun String.replaceAfter(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\r\n   val index = indexOf(delimiter)\r\n   return if (index == -1) missingDelimiterValue else replaceRange(index + 1, length, replacement)\r\n}\r\n\r\n/**\r\n * Replace part of string after the first occurrence of given delimiter with the [replacement] string.\r\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\r\n */\r\npublic fun String.replaceAfter(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {\r\n   val index = indexOf(delimiter)\r\n   return if (index == -1) missingDelimiterValue else replaceRange(index + delimiter.length, length, replacement)\r\n}\r\n\r\n/**\r\n * Replace part of string after the last occurrence of given delimiter with the [replacement] string.\r\n * If the string does not contain the delimiter, returns

[missingDelimiterValue] which defaults to the original string.\r\n */\r\npublic fun String.replaceAfterLast(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {\r\n   val index = lastIndexOf(delimiter)\r\n   return if (index == -1) missingDelimiterValue else replaceRange(index + delimiter.length, length, replacement)\r\n}\r\n\r\n/**\r\n * Replace part of string after the last occurrence of given delimiter with the [replacement] string.\r\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\r\n */\r\npublic fun String.replaceAfterLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\r\n   val index = lastIndexOf(delimiter)\r\n   return if (index == -1) missingDelimiterValue else replaceRange(index + 1, length, replacement)\r\n}\r\n\r\n/**\r\n * Replace part of string before the last occurrence of given delimiter with the [replacement] string.\r\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\r\n */\r\npublic fun String.replaceBeforeLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\r\n   val index = lastIndexOf(delimiter)\r\n   return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)\r\n}\r\n\r\n/**\r\n * Replace part of string before the last occurrence of given delimiter with the [replacement] string.\r\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\r\n */\r\npublic fun String.replaceBeforeLast(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {\r\n   val index = lastIndexOf(delimiter)\r\n   return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)\r\n}\r\n\r\n\r\n// public fun String.replace(oldChar: Char, newChar: Char, ignoreCase: Boolean): String // JVM- and JS-specific\r\n// public fun String.replace(oldValue: String, newValue: String, ignoreCase: Boolean): String // JVM- and JS-specific\r\n\r\n/**\r\n * Returns a new string obtained by replacing each substring of this char sequence that matches the given regular expression\r\n * with the given [replacement].\r\n *\r\n * The [replacement] can consist of any combination of literal text and $-substitutions. To treat the replacement string\r\n * literally escape it with the [kotlin.text.Regex.Companion.escapeReplacement] method.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun CharSequence.replace(regex: Regex, replacement: String): String = regex.replace(this, replacement)\r\n\r\n/**\r\n * Returns a new string obtained by replacing each substring of this char sequence that matches the given regular expression\r\n * with the result of the given function [transform] that takes [MatchResult] and returns a string to be used as a\r\n * replacement for that match.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun CharSequence.replace(regex: Regex, noinline transform: (MatchResult) -> CharSequence): String =\r\n   regex.replace(this, transform)\r\n\r\n/**\r\n * Replaces the first occurrence of the given regular expression [regex] in this char sequence with specified [replacement] expression.\r\n *\r\n * @param replacement A replacement expression that can include substitutions. See [Regex.replaceFirst] for details.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun CharSequence.replaceFirst(regex: Regex, replacement: String): String = regex.replaceFirst(this, replacement)\r\n\r\n\r\n/**\r\n * Returns `true` if this char sequence matches the given regular expression.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline infix fun CharSequence.matches(regex: Regex): Boolean = regex.matches(this)\r\n\r\n/**\r\n * Implementation of [regionMatches] for CharSequences.\r\n * Invoked when it's already known that arguments are not Strings, so that no additional type checks are performed.\r\n */\r\ninternal fun CharSequence.regionMatchesImpl(thisOffset: Int, other: CharSequence, otherOffset: Int, length: Int, ignoreCase: Boolean): Boolean {\r\n   if ((otherOffset < 0) || (thisOffset < 0) || (thisOffset > this.length - length) || (otherOffset > other.length - length)) {\r\n   return false\r\n   }\r\n\r\n   for (index in 0 until length) {\r\n   if (!this[thisOffset + index].equals(other[otherOffset + index], ignoreCase))\r\n   return false\r\n   }\r\n   return true\r\n}\r\n\r\n/**\r\n * Returns `true` if this char sequence starts with the specified character.\r\n */\r\npublic fun CharSequence.startsWith(char: Char, ignoreCase: Boolean = false): Boolean =\r\n   this.length > 0 && this[0].equals(char, ignoreCase)\r\n\r\n/**\r\n * Returns `true` if this char sequence ends with the specified character.\r\n */\r\npublic fun CharSequence.endsWith(char: Char, ignoreCase: Boolean = false): Boolean =\r\n   this.length > 0 && this[lastIndex].equals(char, ignoreCase)\r\n\r\n/**\r\n * Returns `true` if this char sequence starts with the specified prefix.\r\n */\r\npublic fun CharSequence.startsWith(prefix: CharSequence, ignoreCase: Boolean = false): Boolean {\r\n   if (!ignoreCase && this is String && prefix is String)\r\n   return this.startsWith(prefix)\r\n   else\r\n   return

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regionMatchesImpl(0, prefix, 0, prefix.length, ignoreCase)\r\n}\r\n\r\n/**\r\n * Returns `true` if a substring of this char sequence starting at the specified offset [startIndex] starts with the specified prefix.\r\n */\r\npublic fun CharSequence.startsWith(prefix: CharSequence, startIndex: Int, ignoreCase: Boolean = false): Boolean {\r\n    if (!ignoreCase && this is String && prefix is String)\r\n        return this.startsWith(prefix, startIndex)\r\n    else\r\n        return regionMatchesImpl(startIndex, prefix, 0, prefix.length, ignoreCase)\r\n}\r\n\r\n/**\r\n * Returns `true` if this char sequence ends with the specified suffix.\r\n */\r\npublic fun CharSequence.endsWith(suffix: CharSequence, ignoreCase: Boolean = false): Boolean {\r\n    if (!ignoreCase && this is String && suffix is String)\r\n        return this.endsWith(suffix)\r\n    else\r\n        return regionMatchesImpl(length - suffix.length, suffix, 0, suffix.length, ignoreCase)\r\n}\r\n\r\n\r\n// common prefix and suffix\r\n/**\r\n * Returns the longest string `prefix` such that this char sequence and [other] char sequence both start with this prefix,\r\n * taking care not to split surrogate pairs.\r\n * If this and [other] have no common prefix, returns the empty string.\r\n\r\n * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\r\n * @sample samples.text.Strings.commonPrefixWith\r\n */\r\npublic fun CharSequence.commonPrefixWith(other: CharSequence, ignoreCase: Boolean = false): String {\r\n    val shortestLength = minOf(this.length, other.length)\r\n\r\n    var i = 0\r\n    while (i < shortestLength && this[i].equals(other[i], ignoreCase = ignoreCase)) {\r\n        i++\r\n    }\r\n    if (this.hasSurrogatePairAt(i - 1) || other.hasSurrogatePairAt(i - 1)) {\r\n        i--\r\n    }\r\n    return subSequence(0, i).toString()\r\n}\r\n\r\n/**\r\n * Returns the longest string `suffix` such that this char sequence and [other] char sequence both end with this suffix,\r\n * taking care not to split surrogate pairs.\r\n * If this and [other] have no common suffix, returns the empty string.\r\n\r\n * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\r\n * @sample samples.text.Strings.commonSuffixWith\r\n */\r\npublic fun CharSequence.commonSuffixWith(other: CharSequence, ignoreCase: Boolean = false): String {\r\n    val thisLength = this.length\r\n    val otherLength = other.length\r\n    val shortestLength = minOf(thisLength, otherLength)\r\n\r\n    var i = 0\r\n    while (i < shortestLength && this[thisLength - i - 1].equals(other[otherLength - i - 1], ignoreCase = ignoreCase)) {\r\n        i++\r\n    }\r\n    if (this.hasSurrogatePairAt(thisLength - i - 1) || other.hasSurrogatePairAt(otherLength - i - 1)) {\r\n        i--\r\n    }\r\n    return subSequence(thisLength - i, thisLength).toString()\r\n}\r\n\r\n\r\n\r\n// indexOfAny()\r\n\r\n/**\r\n * Finds the index of the first occurrence of any of the specified [chars] in this char sequence,\r\n * starting from the specified [startIndex] and optionally ignoring the case.\r\n *\r\n * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\r\n * @return An index of the first occurrence of matched character from [chars] or -1 if none of [chars] are found.\r\n *\r\n */\r\npublic fun CharSequence.indexOfAny(chars: CharArray, startIndex: Int = 0, ignoreCase: Boolean = false): Int {\r\n    if (!ignoreCase && chars.size == 1 && this is String) {\r\n        val char = chars.single()\r\n        return nativeIndexOf(char, startIndex)\r\n    }\r\n\r\n    for (index in startIndex.coerceAtLeast(0)..lastIndex) {\r\n        val charAtIndex = get(index)\r\n        if (chars.any { it.equals(charAtIndex, ignoreCase) })\r\n            return index\r\n    }\r\n    return -1\r\n}\r\n\r\n\r\n/**\r\n * Finds the index of the last occurrence of any of the specified [chars] in this char sequence,\r\n * starting from the specified [startIndex] and optionally ignoring the case.\r\n *\r\n * @param startIndex The index of character to start searching at. The search proceeds backward toward the beginning of the string.\r\n * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\r\n * @return An index of the last occurrence of matched character from [chars] or -1 if none of [chars] are found.\r\n *\r\n */\r\npublic fun CharSequence.lastIndexOfAny(chars: CharArray, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {\r\n    if (!ignoreCase && chars.size == 1 && this is String) {\r\n        val char = chars.single()\r\n        return nativeLastIndexOf(char, startIndex)\r\n    }\r\n\r\n\r\n    for (index in startIndex.coerceAtMost(lastIndex) downTo 0) {\r\n        val charAtIndex = get(index)\r\n        if (chars.any { it.equals(charAtIndex, ignoreCase) })\r\n            return index\r\n    }\r\n\r\n    return -1\r\n}\r\n\r\n\r\n\r\nprivate fun CharSequence.indexOf(other: CharSequence, startIndex: Int, endIndex: Int, ignoreCase: Boolean, last: Boolean = false): Int {\r\n    val indices = if (!last)\r\n        startIndex.coerceAtLeast(0)..endIndex.coerceAtMost(length)\r\n    else\r\n        startIndex.coerceAtMost(lastIndex) downTo endIndex.coerceAtLeast(0)\r\n\r\n    if (this is String && other is String) { // smart cast\r\n        for (index in indices) {\r\n            if (other.regionMatches(0, this, index,
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other.length, ignoreCase))\r\n return index\r\n }\r\n } else {\r\n for (index in indices) {\r\n if (other.regionMatchesImpl(0, this, index, other.length, ignoreCase))\r\n return index\r\n }\r\n }\r\n return -1\r\n}\r\n\r\nprivate fun CharSequence.findAnyOf(strings: Collection<String>, startIndex: Int, ignoreCase: Boolean, last: Boolean): Pair<Int, String>? {\r\n if (!ignoreCase && strings.size == 1) {\r\n val string = strings.single()\r\n val index = if (!last) indexOf(string, startIndex) else lastIndexOf(string, startIndex)\r\n return if (index < 0) null else index to string\r\n }\r\n\r\n val indices = if (!last) startIndex.coerceAtLeast(0)..length else startIndex.coerceAtMost(lastIndex) downTo 0\r\n\r\n if (this is String) {\r\n for (index in indices) {\r\n val matchingString = strings.firstOrNull { it.regionMatches(0, this, index, it.length, ignoreCase) }\r\n if (matchingString != null)\r\n return index to matchingString\r\n }\r\n } else {\r\n for (index in indices) {\r\n val matchingString = strings.firstOrNull { it.regionMatchesImpl(0, this, index, it.length, ignoreCase) }\r\n if (matchingString != null)\r\n return index to matchingString\r\n }\r\n }\r\n\r\n return null\r\n}\r\n\r\n/**\r\n * Finds the first occurrence of any of the specified [strings] in this char sequence,\r\n * starting from the specified [startIndex] and optionally ignoring the case.\r\n *\r\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\r\n * @return A pair of an index of the first occurrence of matched string from [strings] and the string matched\r\n * or `null` if none of [strings] are found.\r\n *\r\n * To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from\r\n * the beginning to the end of this string, and finds at each position the first element in [strings]\r\n * that matches this string at that position.\r\n */\r\npublic fun CharSequence.findAnyOf(strings: Collection<String>, startIndex: Int = 0, ignoreCase: Boolean = false): Pair<Int, String>? =\r\n findAnyOf(strings, startIndex, ignoreCase, last = false)\r\n\r\n/**\r\n * Finds the last occurrence of any of the specified [strings] in this char sequence,\r\n * starting from the specified [startIndex] and optionally ignoring the case.\r\n *\r\n * @param startIndex The index of character to start searching at. The search proceeds backward toward the beginning of the string.\r\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\r\n * @return A pair of an index of the last occurrence of matched string from [strings] and the string matched or `null` if none of [strings] are found.\r\n *\r\n * To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from\r\n * the end toward the beginning of this string, and finds at each position the first element in [strings]\r\n * that matches this string at that position.\r\n */\r\npublic fun CharSequence.findLastAnyOf(strings: Collection<String>, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Pair<Int, String>? =\r\n findAnyOf(strings, startIndex, ignoreCase, last = true)\r\n\r\n/**\r\n * Finds the index of the first occurrence of any of the specified [strings] in this char sequence,\r\n * starting from the specified [startIndex] and optionally ignoring the case.\r\n *\r\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\r\n * @return An index of the first occurrence of matched string from [strings] or -1 if none of [strings] are found.\r\n *\r\n * To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from\r\n * the beginning to the end of this string, and finds at each position the first element in [strings]\r\n * that matches this string at that position.\r\n */\r\npublic fun CharSequence.indexOfAny(strings: Collection<String>, startIndex: Int = 0, ignoreCase: Boolean = false): Int =\r\n findAnyOf(strings, startIndex, ignoreCase, last = false)?.first ?: -1\r\n\r\n/**\r\n * Finds the index of the last occurrence of any of the specified [strings] in this char sequence,\r\n * starting from the specified [startIndex] and optionally ignoring the case.\r\n *\r\n * @param startIndex The index of character to start searching at. The search proceeds backward toward the beginning of the string.\r\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\r\n * @return An index of the last occurrence of matched string from [strings] or -1 if none of [strings] are found.\r\n *\r\n * To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from\r\n * the end toward the beginning of this string, and finds at each position the first element in [strings]\r\n * that matches this string at that position.\r\n */\r\npublic fun CharSequence.lastIndexOfAny(strings: Collection<String>, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int =\r\n findAnyOf(strings, startIndex, ignoreCase, last = true)?.first ?: -1\r\n\r\n\r\n// indexOf\r\n\r\n/**\r\n * Returns the index within this string of the first occurrence of the specified character, starting from the specified [startIndex].\r\n *\r\n * @param ignoreCase `true` to ignore character case when matching a

character. By default `false`.\r\n * @return An index of the first occurrence of [char] or -1 if none is found.\r\n */\r\npublic fun CharSequence.indexOf(char: Char, startIndex: Int = 0, ignoreCase: Boolean = false): Int {\r\n return if (ignoreCase || this !is String)\r\n indexOfAny(charArrayOf(char), startIndex, ignoreCase)\r\n else\r\n nativeIndexOf(char, startIndex)\r\n}\r\n\r\n/**\r\n * Returns the index within this char sequence of the first occurrence of the specified [string],\r\n * starting from the specified [startIndex].\r\n *\r\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\r\n * @return An index of the first occurrence of [string] or `-1` if none is found.\r\n */\r\npublic fun CharSequence.indexOf(string: String, startIndex: Int = 0, ignoreCase: Boolean = false): Int {\r\n return if (ignoreCase || this !is String)\r\n indexOf(string, startIndex, length, ignoreCase)\r\n else\r\n nativeIndexOf(string, startIndex)\r\n}\r\n\r\n/**\r\n * Returns the index within this char sequence of the last occurrence of the specified character,\r\n * starting from the specified [startIndex].\r\n *\r\n * @param startIndex The index of character to start searching at. The search proceeds backward toward the beginning of the string.\r\n * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\r\n * @return An index of the first occurrence of [char] or -1 if none is found.\r\n */\r\npublic fun CharSequence.lastIndexOf(char: Char, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {\r\n return if (ignoreCase || this !is String)\r\n lastIndexOfAny(charArrayOf(char), startIndex, ignoreCase)\r\n else\r\n nativeLastIndexOf(char, startIndex)\r\n}\r\n\r\n/**\r\n * Returns the index within this char sequence of the last occurrence of the specified [string],\r\n * starting from the specified [startIndex].\r\n *\r\n * @param startIndex The index of character to start searching at. The search proceeds backward toward the beginning of the string.\r\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\r\n * @return An index of the first occurrence of [string] or -1 if none is found.\r\n */\r\npublic fun CharSequence.lastIndexOf(string: String, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {\r\n return if (ignoreCase || this !is String)\r\n indexOf(string, startIndex, 0, ignoreCase, last = true)\r\n else\r\n nativeLastIndexOf(string, startIndex)\r\n}\r\n\r\n/**\r\n * Returns `true` if this char sequence contains the specified [other] sequence of characters as a substring.\r\n *\r\n * @param ignoreCase `true` to ignore character case when comparing strings. By default `false`.\r\n */\r\n@Suppress(\"INAPPLICABLE_OPERATOR_MODIFIER\")\r\npublic operator fun CharSequence.contains(other: CharSequence, ignoreCase: Boolean = false): Boolean =\r\n if (other is String)\r\n indexOf(other, ignoreCase = ignoreCase) >= 0\r\n else\r\n indexOf(other, 0, length, ignoreCase) >= 0\r\n\r\n\r\n\r\n/**\r\n * Returns `true` if this char sequence contains the specified character [char].\r\n *\r\n * @param ignoreCase `true` to ignore character case when comparing characters. By default `false`.\r\n */\r\n@Suppress(\"INAPPLICABLE_OPERATOR_MODIFIER\")\r\npublic operator fun CharSequence.contains(char: Char, ignoreCase: Boolean = false): Boolean =\r\n indexOf(char, ignoreCase = ignoreCase) >= 0\r\n\r\n/**\r\n * Returns `true` if this char sequence contains at least one match of the specified regular expression [regex].\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun CharSequence.contains(regex: Regex): Boolean = regex.containsMatchIn(this)\r\n\r\n\r\n\r\n// rangesDelimitedBy\r\n\r\n\r\nprivate class DelimitedRangesSequence(\r\n private val input: CharSequence,\r\n private val startIndex: Int,\r\n private val limit: Int,\r\n private val getNextMatch: CharSequence.(currentIndex: Int) -> Pair<Int, Int>?\r\n) : Sequence<IntRange> {\r\n\r\n override fun iterator(): Iterator<IntRange> = object : Iterator<IntRange> {\r\n var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue\r\n var currentStartIndex: Int = startIndex.coerceIn(0, input.length)\r\n var nextSearchIndex: Int = currentStartIndex\r\n var nextItem: IntRange? = null\r\n var counter: Int = 0\r\n\r\n private fun calcNext() {\r\n if (nextSearchIndex < 0) {\r\n nextState = 0\r\n nextItem = null\r\n } else {\r\n if (limit > 0 && ++counter >= limit || nextSearchIndex > input.length) {\r\n nextItem = currentStartIndex..input.lastIndex\r\n nextSearchIndex = -1\r\n } else {\r\n val match = input.getNextMatch(nextSearchIndex)\r\n if (match == null) {\r\n nextItem = currentStartIndex..input.lastIndex\r\n nextSearchIndex = -1\r\n } else {\r\n val (index, length) = match\r\n nextItem = currentStartIndex until index\r\n currentStartIndex = index + length\r\n nextSearchIndex = currentStartIndex + if (length == 0) 1 else

0\r\n }\r\n }\r\n nextState = 1\r\n }\r\n }\r\n\r\n override fun next(): IntRange {\r\n if (nextState == -1)\r\n calcNext()\r\n if (nextState == 0)\r\n throw NoSuchElementException()\r\n val result = nextItem as IntRange\r\n // Clean next to avoid keeping reference on yielded instance\r\n nextItem = null\r\n nextState = -1\r\n return result\r\n }\r\n\r\n override fun hasNext(): Boolean {\r\n if (nextState == -1)\r\n calcNext()\r\n return nextState == 1\r\n }\r\n }\r\n}\r\n\r\n/**\r\n * Returns a sequence of index ranges of substrings in this char sequence around occurrences of the specified [delimiters].\r\n *\r\n * @param delimiters One or more characters to be used as delimiters.\r\n * @param startIndex The index to start searching delimiters from.\r\n * No range having its start value less than [startIndex] is returned.\r\n * [startIndex] is coerced to be non-negative and not greater than length of this string.\r\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\r\n * @param limit The maximum number of substrings to return. Zero by default means no limit is set.\r\n */\r\nprivate fun CharSequence.rangesDelimitedBy(delimiters: CharArray, startIndex: Int = 0, ignoreCase: Boolean = false, limit: Int = 0): Sequence<IntRange> {\r\n require(limit >= 0, { \"Limit must be non-negative, but was $limit.\" })\r\n\r\n return DelimitedRangesSequence(this, startIndex, limit, { currentIndex ->\r\n indexOfAny(delimiters, currentIndex, ignoreCase = ignoreCase).let { if (it < 0) null else it to 1 }\r\n })\r\n}\r\n\r\n\r\n/**\r\n * Returns a sequence of index ranges of substrings in this char sequence around occurrences of the specified [delimiters].\r\n *\r\n * @param delimiters One or more strings to be used as delimiters.\r\n * @param startIndex The index to start searching delimiters from.\r\n * No range having its start value less than [startIndex] is returned.\r\n * [startIndex] is coerced to be non-negative and not greater than length of this string.\r\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\r\n * @param limit The maximum number of substrings to return. Zero by default means no limit is set.\r\n *\r\n * To avoid ambiguous results when strings in [delimiters] have characters in common, this method proceeds from\r\n * the beginning to the end of this string, and finds at each position the first element in [delimiters]\r\n * that matches this string at that position.\r\n */\r\nprivate fun CharSequence.rangesDelimitedBy(delimiters: Array<out String>, startIndex: Int = 0, ignoreCase: Boolean = false, limit: Int = 0): Sequence<IntRange> {\r\n require(limit >= 0, { \"Limit must be non-negative, but was $limit.\" })\r\n val delimitersList = delimiters.asList()\r\n\r\n return DelimitedRangesSequence(this, startIndex, limit, { currentIndex -> findAnyOf(delimitersList, currentIndex, ignoreCase = ignoreCase, last = false)?.let { it.first to it.second.length } })\r\n\r\n}\r\n\r\n\r\n// split\r\n\r\n/**\r\n * Splits this char sequence to a sequence of strings around occurrences of the specified [delimiters].\r\n *\r\n * @param delimiters One or more strings to be used as delimiters.\r\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\r\n * @param limit The maximum number of substrings to return. Zero by default means no limit is set.\r\n *\r\n * To avoid ambiguous results when strings in [delimiters] have characters in common, this method proceeds from\r\n * the beginning to the end of this string, and finds at each position the first element in [delimiters]\r\n * that matches this string at that position.\r\n */\r\npublic fun CharSequence.splitToSequence(vararg delimiters: String, ignoreCase: Boolean = false, limit: Int = 0): Sequence<String> =\r\n rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).map { substring(it) }\r\n\r\n/**\r\n * Splits this char sequence to a list of strings around occurrences of the specified [delimiters].\r\n *\r\n * @param delimiters One or more strings to be used as delimiters.\r\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\r\n * @param limit The maximum number of substrings to return. Zero by default means no limit is set.\r\n *\r\n * To avoid ambiguous results when strings in [delimiters] have characters in common, this method proceeds from\r\n * the beginning to the end of this string, and matches at each position the first element in [delimiters]\r\n * that is equal to a delimiter in this instance at that position.\r\n */\r\npublic fun CharSequence.split(vararg delimiters: String, ignoreCase: Boolean = false, limit: Int = 0): List<String> {\r\n if (delimiters.size == 1) {\r\n val delimiter = delimiters[0]\r\n if (!delimiter.isEmpty()) {\r\n return split(delimiter, ignoreCase, limit)\r\n }\r\n }\r\n\r\n return rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).asIterable().map { substring(it) }\r\n}\r\n\r\n\r\n/**\r\n * Splits this char sequence to a sequence of strings around occurrences of the specified [delimiters].\r\n *\r\n * @param delimiters One or more characters to be used as delimiters.\r\n * @param

ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\r\n * @param limit The maximum number of substrings to return.\r\n */\r\npublic fun CharSequence.splitToSequence(vararg delimiters: Char, ignoreCase: Boolean = false, limit: Int = 0): Sequence<String> =\r\n rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).map { substring(it) }\r\n\r\n/**\r\n * Splits this char sequence to a list of strings around occurrences of the specified [delimiters].\r\n *\r\n * @param delimiters One or more characters to be used as delimiters.\r\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\r\n * @param limit The maximum number of substrings to return.\r\n */\r\npublic fun CharSequence.split(vararg delimiters: Char, ignoreCase: Boolean = false, limit: Int = 0): List<String> {\r\n if (delimiters.size == 1) {\r\n return split(delimiters[0].toString(), ignoreCase, limit)\r\n }\r\n\r\n return rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).asIterable().map { substring(it) }\r\n}\r\n\r\n/**\r\n * Splits this char sequence to a list of strings around occurrences of the specified [delimiter].\r\n * This is specialized version of split which receives single non-empty delimiter and offers better performance\r\n *\r\n * @param delimiter String used as delimiter\r\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\r\n * @param limit The maximum number of substrings to return.\r\n */\r\nprivate fun CharSequence.split(delimiter: String, ignoreCase: Boolean, limit: Int): List<String> {\r\n require(limit >= 0, { \"Limit must be non-negative, but was $limit.\" })\r\n\r\n var currentOffset = 0\r\n var nextIndex = indexOf(delimiter, currentOffset, ignoreCase)\r\n if (nextIndex == -1 || limit == 1) {\r\n return listOf(this.toString())\r\n }\r\n\r\n val isLimited = limit > 0\r\n val result = ArrayList<String>(if (isLimited) limit.coerceAtMost(10) else 10)\r\n do {\r\n result.add(substring(currentOffset, nextIndex))\r\n currentOffset = nextIndex + delimiter.length\r\n // Do not search for next occurrence if we're reaching limit\r\n if (isLimited && result.size == limit - 1) break\r\n nextIndex = indexOf(delimiter, currentOffset, ignoreCase)\r\n } while (nextIndex != -1)\r\n\r\n result.add(substring(currentOffset, length))\r\n return result\r\n}\r\n\r\n/**\r\n * Splits this char sequence around matches of the given regular expression.\r\n *\r\n * @param limit Non-negative value specifying the maximum number of substrings to return.\r\n * Zero by default means no limit is set.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun CharSequence.split(regex: Regex, limit: Int = 0): List<String> = regex.split(this, limit)\r\n\r\n/**\r\n * Splits this char sequence to a sequence of lines delimited by any of the following character sequences: CRLF, LF or CR.\r\n *\r\n * The lines returned do not include terminating line separators.\r\n */\r\npublic fun CharSequence.lineSequence(): Sequence<String> = splitToSequence(\"\\r\\n\", \"\\n\", \"\\r\")\r\n\r\n/**\r\n * Splits this char sequence to a list of lines delimited by any of the following character sequences: CRLF, LF or CR.\r\n *\r\n * The lines returned do not include terminating line separators.\r\n */\r\npublic fun CharSequence.lines(): List<String> = lineSequence().toList()\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.text\r\n\r\nimport kotlin.js.RegExp\r\n\r\n/**\r\n * Converts the characters in the specified array to a string.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual fun String(chars: CharArray): String {\r\n var result = \"\"\r\n for (char in chars) {\r\n result += char\r\n }\r\n return result\r\n}\r\n\r\n/**\r\n * Converts the characters from a portion of the specified array to a string.\r\n *\r\n * @throws IndexOutOfBoundsException if either [offset] or [length] are less than zero\r\n * or `offset + length` is out of [chars] array bounds.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual fun String(chars: CharArray, offset: Int, length: Int): String {\r\n if (offset < 0 || length < 0 || chars.size - offset < length)\r\n throw IndexOutOfBoundsException(\"size: ${chars.size}; offset: $offset; length: $length\")\r\n var result = \"\"\r\n for (index in offset until offset + length) {\r\n result += chars[index]\r\n }\r\n return result\r\n}\r\n\r\n/**\r\n * Concatenates characters in this [CharArray] into a String.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic actual fun CharArray.concatToString(): String {\r\n var result = \"\"\r\n for (char in this) {\r\n result += char\r\n }\r\n return result\r\n}\r\n\r\n/**\r\n * Concatenates characters in this [CharArray] or its subrange into a String.\r\n *\r\n * @param startIndex the beginning (inclusive) of the subrange of characters, 0 by default.\r\n * @param endIndex the end (exclusive) of the subrange of characters, size of this array by default.\r\n *\r\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the size of this array.\r\n *

@throws IllegalArgumentException if [startIndex] is greater than [endIndex].\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\n@ExperimentalStdlibApi\r\npublic actual fun CharArray.concatToString(startIndex: Int = 0, endIndex: Int = this.size): String {\r\n AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)\r\n var result = \"\"\r\n for (index in startIndex until endIndex) {\r\n result += this[index]\r\n }\r\n return result\r\n}\r\n\r\n/**\r\n * Returns a [CharArray] containing characters of this string.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic actual fun String.toCharArray(): CharArray {\r\n return CharArray(length) { get(it) }\r\n}\r\n\r\n/**\r\n * Returns a [CharArray] containing characters of this string or its substring.\r\n *\r\n * @param startIndex the beginning (inclusive) of the substring, 0 by default.\r\n * @param endIndex the end (exclusive) of the substring, length of this string by default.\r\n *\r\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length of this string.\r\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\n@ExperimentalStdlibApi\r\npublic actual fun String.toCharArray(startIndex: Int = 0, endIndex: Int = this.length): CharArray {\r\n AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\r\n return CharArray(endIndex - startIndex) { get(startIndex + it) }\r\n}\r\n\r\n/**\r\n * Decodes a string from the bytes in UTF-8 encoding in this array.\r\n *\r\n * Malformed byte sequences are replaced by the replacement char `\\uFFFD`.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic actual fun ByteArray.decodeToString(): String {\r\n return decodeUtf8(this, 0, size, false)\r\n}\r\n\r\n/**\r\n * Decodes a string from the bytes in UTF-8 encoding in this array or its subrange.\r\n *\r\n * @param startIndex the beginning (inclusive) of the subrange to decode, 0 by default.\r\n * @param endIndex the end (exclusive) of the subrange to decode, size of this array by default.\r\n * @param throwOnInvalidSequence specifies whether to throw an exception on malformed byte sequence or replace it by the replacement char `\\uFFFD`.\r\n *\r\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the size of this array.\r\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\r\n * @throws CharacterCodingException if the byte array contains malformed UTF-8 byte sequence and [throwOnInvalidSequence] is true.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\n@ExperimentalStdlibApi\r\npublic actual fun ByteArray.decodeToString(\r\n startIndex: Int = 0,\r\n endIndex: Int = this.size,\r\n throwOnInvalidSequence: Boolean = false\r\n): String {\r\n AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)\r\n return decodeUtf8(this, startIndex, endIndex, throwOnInvalidSequence)\r\n}\r\n\r\n/**\r\n * Encodes this string to an array of bytes in UTF-8 encoding.\r\n *\r\n * Any malformed char sequence is replaced by the replacement byte sequence.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic actual fun String.encodeToByteArray(): ByteArray {\r\n return encodeUtf8(this, 0, length, false)\r\n}\r\n\r\n/**\r\n * Encodes this string or its substring to an array of bytes in UTF-8 encoding.\r\n *\r\n * @param startIndex the beginning (inclusive) of the substring to encode, 0 by default.\r\n * @param endIndex the end (exclusive) of the substring to encode, length of this string by default.\r\n * @param throwOnInvalidSequence specifies whether to throw an exception on malformed char sequence or replace.\r\n *\r\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length of this string.\r\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\r\n * @throws CharacterCodingException if this string contains malformed char sequence and [throwOnInvalidSequence] is true.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\n@ExperimentalStdlibApi\r\npublic actual fun String.encodeToByteArray(\r\n startIndex: Int = 0,\r\n endIndex: Int = this.length,\r\n throwOnInvalidSequence: Boolean = false\r\n): ByteArray {\r\n AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\r\n return encodeUtf8(this, startIndex, endIndex, throwOnInvalidSequence)\r\n}\r\n\r\n/**\r\n * Returns a copy of this string converted to upper case using the rules of the default locale.\r\n *\r\n * @sample samples.text.Strings.toUpperCase\r\n
*/\r\n@kotlin.internal.InlineOnly\r\npublic actual inline fun String.toUpperCase(): String =

asDynamic().toUpperCase()\r\n\r\n/**\r\n * Returns a copy of this string converted to lower case using the rules of the default locale.\r\n *\r\n * @sample samples.text.Strings.toLowerCase\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic actual inline fun String.toLowerCase(): String = asDynamic().toLowerCase()\r\n\r\n@kotlin.internal.InlineOnly\r\ninternal actual inline fun String.nativeIndexOf(str: String, fromIndex: Int): Int = asDynamic().indexOf(str, fromIndex)\r\n\r\n@kotlin.internal.InlineOnly\r\ninternal actual inline fun String.nativeLastIndexOf(str: String, fromIndex: Int): Int = asDynamic().lastIndexOf(str, fromIndex)\r\n\r\n@kotlin.internal.InlineOnly\r\ninternal inline fun String.nativeStartsWith(s: String, position: Int): Boolean = asDynamic().startsWith(s, position)\r\n\r\n@kotlin.internal.InlineOnly\r\ninternal inline fun String.nativeEndsWith(s: String): Boolean = asDynamic().endsWith(s)\r\n\r\n@kotlin.internal.InlineOnly\r\npublic actual inline fun String.substring(startIndex: Int): String = asDynamic().substring(startIndex)\r\n\r\n@kotlin.internal.InlineOnly\r\npublic actual inline fun String.substring(startIndex: Int, endIndex: Int): String = asDynamic().substring(startIndex, endIndex)\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun String.concat(str: String): String = asDynamic().concat(str)\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun String.match(regex: String): Array<String>? = asDynamic().match(regex)\r\n\r\n//native public fun String.trim(): String\r\n//TODO: String.replace to implement effective trimLeading and trimTrailing\r\n\r\n@kotlin.internal.InlineOnly\r\ninternal inline fun String.nativeReplace(pattern: RegExp, replacement: String): String = asDynamic().replace(pattern, replacement)\r\n\r\n@SinceKotlin(\"1.2\")\r\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\npublic actual fun String.compareTo(other: String, ignoreCase: Boolean = false): Int {\r\n   if (ignoreCase) {\r\n   val n1 = this.length\r\n   val n2 = other.length\r\n   val min = minOf(n1, n2)\r\n   if (min == 0) return n1 - n2\r\n   var start = 0\r\n   while (true) {\r\n   val end = minOf(start + 16, min)\r\n   var s1 = this.substring(start, end)\r\n   var s2 = other.substring(start, end)\r\n   if (s1 != s2) {\r\n   s1 = s1.toUpperCase()\r\n   s2 = s2.toUpperCase()\r\n   if (s1 != s2) {\r\n   s1 = s1.toLowerCase()\r\n   s2 = s2.toLowerCase()\r\n   if (s1 != s2) {\r\n   return s1.compareTo(s2)\r\n   }\r\n   }\r\n   }\r\n   if (end == min) break\r\n   start = end\r\n   }\r\n   return n1 - n2\r\n   } else {\r\n   return compareTo(other)\r\n   }\r\n}\r\n\r\n\r\nprivate val STRING_CASE_INSENSITIVE_ORDER = Comparator<String> { a, b -> a.compareTo(b, ignoreCase = true) }\r\n\r\n@SinceKotlin(\"1.2\")\r\npublic actual val String.Companion.CASE_INSENSITIVE_ORDER: Comparator<String>\r\n   get() = STRING_CASE_INSENSITIVE_ORDER\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// Auto-generated file. DO NOT EDIT!\r\n\r\npackage kotlin\r\n\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic inline class UByteArray\r\n@Suppress(\"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS\")\r\n@PublishedApi\r\ninternal constructor(@PublishedApi internal val storage: ByteArray) : Collection<UByte> {\r\n\r\n   /** Creates a new array of the specified [size], with all elements initialized to zero. */\r\n   public constructor(size: Int) : this(ByteArray(size))\r\n\r\n   /**\r\n   * Returns the array element at the given [index]. This method can be called using the index operator.\r\n   *\r\n   * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\r\n   * where the behavior is unspecified.\r\n   */\r\n   public operator fun get(index: Int): UByte = storage[index].toUByte()\r\n\r\n   /**\r\n   * Sets the element at the given [index] to the given [value]. This method can be called using the index operator.\r\n   *\r\n   * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\r\n   * where the behavior is unspecified.\r\n   */\r\n   public operator fun set(index: Int, value: UByte) {\r\n   storage[index] = value.toByte()\r\n   }\r\n\r\n   /** Returns the number of elements in the array. */\r\n   public override val size: Int get() = storage.size\r\n\r\n   /** Creates an iterator over the elements of the array. */\r\n   public override operator fun iterator(): UByteIterator = Iterator(storage)\r\n\r\n   private class Iterator(private val array: ByteArray) : UByteIterator() {\r\n   private var index = 0\r\n   override fun hasNext() = index < array.size\r\n   override fun nextUByte() = if (index < array.size) array[index++].toUByte() else throw NoSuchElementException(index.toString())\r\n   }\r\n\r\n   override fun contains(element: UByte): Boolean {\r\n

// TODO: Eliminate this check after KT-30016 gets fixed.\r\n // Currently JS BE does not generate special bridge method for this method.\r\n if ((element as Any?) !is UByte) return false\r\n\r\n return storage.contains(element.toByte())\r\n }\r\n\r\n override fun containsAll(elements: Collection<UByte>): Boolean {\r\n return (elements as Collection<*>).all { it is UByte && storage.contains(it.toByte()) }\r\n }\r\n\r\n override fun isEmpty(): Boolean = this.storage.size == 0\r\n}\r\n\r\n/**\r\n * Creates a new array of the specified [size], where each element is calculated by calling the specified\r\n * [init] function.\r\n *\r\n * The function [init] is called for each array element sequentially starting from the first one.\r\n * It should return the value for an array element given its index.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UByteArray(size: Int, init: (Int) -> UByte): UByteArray {\r\n return UByteArray(ByteArray(size) { index -> init(index).toByte() })\r\n}\r\n\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ubyteArrayOf(vararg elements: UByte): UByteArray = elements\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// Auto-generated file. DO NOT EDIT!\r\n\r\npackage kotlin\r\n\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic inline class UIntArray\r\n@Suppress(\"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS\")\r\n@PublishedApi\r\ninternal constructor(@PublishedApi internal val storage: IntArray) : Collection<UInt> {\r\n\r\n /** Creates a new array of the specified [size], with all elements initialized to zero. */\r\n public constructor(size: Int) : this(IntArray(size))\r\n\r\n /**\r\n * Returns the array element at the given [index]. This method can be called using the index operator.\r\n *\r\n * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\r\n * where the behavior is unspecified.\r\n */\r\n public operator fun get(index: Int): UInt = storage[index].toUInt()\r\n\r\n /**\r\n * Sets the element at the given [index] to the given [value]. This method can be called using the index operator.\r\n *\r\n * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\r\n * where the behavior is unspecified.\r\n */\r\n public operator fun set(index: Int, value: UInt) {\r\n storage[index] = value.toInt()\r\n }\r\n\r\n /** Returns the number of elements in the array. */\r\n public override val size: Int get() = storage.size\r\n\r\n /** Creates an iterator over the elements of the array. */\r\n public override operator fun iterator(): UIntIterator = Iterator(storage)\r\n\r\n private class Iterator(private val array: IntArray) : UIntIterator() {\r\n private var index = 0\r\n override fun hasNext() = index < array.size\r\n override fun nextUInt() = if (index < array.size) array[index++].toUInt() else throw NoSuchElementException(index.toString())\r\n }\r\n\r\n override fun contains(element: UInt): Boolean {\r\n // TODO: Eliminate this check after KT-30016 gets fixed.\r\n // Currently JS BE does not generate special bridge method for this method.\r\n if ((element as Any?) !is UInt) return false\r\n\r\n return storage.contains(element.toInt())\r\n }\r\n\r\n override fun containsAll(elements: Collection<UInt>): Boolean {\r\n return (elements as Collection<*>).all { it is UInt && storage.contains(it.toInt()) }\r\n }\r\n\r\n override fun isEmpty(): Boolean = this.storage.size == 0\r\n}\r\n\r\n/**\r\n * Creates a new array of the specified [size], where each element is calculated by calling the specified\r\n * [init] function.\r\n *\r\n * The function [init] is called for each array element sequentially starting from the first one.\r\n * It should return the value for an array element given its index.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UIntArray(size: Int, init: (Int) -> UInt): UIntArray {\r\n return UIntArray(IntArray(size) { index -> init(index).toInt() })\r\n}\r\n\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun uintArrayOf(vararg elements: UInt): UIntArray = elements\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// Auto-generated file. DO NOT EDIT!\r\n\r\npackage kotlin\r\n\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic inline class ULongArray\r\n@Suppress(\"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS\")\r\n@Publish

edApi\r\ninternal constructor(@PublishedApi internal val storage: LongArray) : Collection<ULong> {\r\n\r\n   /** Creates a new array of the specified [size], with all elements initialized to zero. */\r\n   public constructor(size: Int) : this(LongArray(size))\r\n\r\n   /**\r\n   * Returns the array element at the given [index]. This method can be called using the index operator.\r\n   *\r\n   * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\r\n   * where the behavior is unspecified.\r\n   */\r\n   public operator fun get(index: Int): ULong = storage[index].toULong()\r\n\r\n   /**\r\n   * Sets the element at the given [index] to the given [value]. This method can be called using the index operator.\r\n   *\r\n   * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\r\n   * where the behavior is unspecified.\r\n   */\r\n   public operator fun set(index: Int, value: ULong) {\r\n   storage[index] = value.toLong()\r\n   }\r\n\r\n   /** Returns the number of elements in the array. */\r\n   public override val size: Int get() = storage.size\r\n\r\n   /** Creates an iterator over the elements of the array. */\r\n   public override operator fun iterator(): ULongIterator = Iterator(storage)\r\n\r\n   private class Iterator(private val array: LongArray) : ULongIterator() {\r\n   private var index = 0\r\n   override fun hasNext() = index < array.size\r\n   override fun nextULong() = if (index < array.size) array[index++].toULong() else throw NoSuchElementException(index.toString())\r\n   }\r\n\r\n   override fun contains(element: ULong): Boolean {\r\n   // TODO: Eliminate this check after KT-30016 gets fixed.\r\n   // Currently JS BE does not generate special bridge method for this method.\r\n   if ((element as Any?) !is ULong) return false\r\n\r\n   return storage.contains(element.toLong())\r\n   }\r\n\r\n   override fun containsAll(elements: Collection<ULong>): Boolean {\r\n   return (elements as Collection<*>).all { it is ULong && storage.contains(it.toLong()) }\r\n   }\r\n\r\n   override fun isEmpty(): Boolean = this.storage.size == 0\r\n}\r\n\r\n/**\r\n * Creates a new array of the specified [size], where each element is calculated by calling the specified\r\n * [init] function.\r\n *\r\n * The function [init] is called for each array element sequentially starting from the first one.\r\n * It should return the value for an array element given its index.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ULongArray(size: Int, init: (Int) -> ULong): ULongArray {\r\n   return ULongArray(LongArray(size) { index -> init(index).toLong()\r\n})\r\n}\r\n\r\n\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ulongArrayOf(vararg elements: ULong): ULongArray = elements\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\n// Auto-generated file. DO NOT EDIT!\r\n\r\npackage kotlin\r\n\r\nimport kotlin.experimental.*\r\n\r\n@Suppress(\"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS\")\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic inline class ULong @PublishedApi internal constructor(@PublishedApi internal val data: Long) : Comparable<ULong> {\r\n\r\n   companion object {\r\n   /**\r\n   * A constant holding the minimum value an instance of ULong can have.\r\n   */\r\n   public const val MIN_VALUE: ULong = ULong(0)\r\n\r\n   /**\r\n   * A constant holding the maximum value an instance of ULong can have.\r\n   */\r\n   public const val MAX_VALUE: ULong = ULong(-1)\r\n\r\n   /**\r\n   * The number of bytes used to represent an instance of ULong in a binary form.\r\n   */\r\n   public const val SIZE_BYTES: Int = 8\r\n\r\n   /**\r\n   * The number of bits used to represent an instance of ULong in a binary form.\r\n   */\r\n   public const val SIZE_BITS: Int = 64\r\n   }\r\n\r\n   /**\r\n   * Compares this value with the specified value for order.\r\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\r\n   * or a positive number if it's greater than other.\r\n   */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun compareTo(other: UByte): Int = this.compareTo(other.toULong())\r\n\r\n   /**\r\n   * Compares this value with the specified value for order.\r\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\r\n   * or a positive number if it's greater than other.\r\n   */\r\n   @kotlin.internal.InlineOnly\r\n   public inline operator fun compareTo(other: UShort): Int = this.compareTo(other.toULong())\r\n\r\n   /**\r\n   * Compares this value with the specified value for order.\r\n   * Returns zero if this value is equal to the specified other value, a negative

number if it's less than other,\r\n * or a positive number if it's greater than other.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun compareTo(other: UInt): Int = this.compareTo(other.toULong())\r\n\r\n /**\r\n * Compares this value with the specified value for order.\r\n * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\r\n * or a positive number if it's greater than other.\r\n */\r\n @kotlin.internal.InlineOnly\r\n @Suppress(\"OVERRIDE_BY_INLINE\")\r\n public override inline operator fun compareTo(other: ULong): Int = ulongCompare(this.data, other.data)\r\n\r\n /** Adds the other value to this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun plus(other: UByte): ULong = this.plus(other.toULong())\r\n /** Adds the other value to this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun plus(other: UShort): ULong = this.plus(other.toULong())\r\n /** Adds the other value to this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun plus(other: UInt): ULong = this.plus(other.toULong())\r\n /** Adds the other value to this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun plus(other: ULong): ULong = ULong(this.data.plus(other.data))\r\n\r\n /** Subtracts the other value from this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun minus(other: UByte): ULong = this.minus(other.toULong())\r\n /** Subtracts the other value from this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun minus(other: UShort): ULong = this.minus(other.toULong())\r\n /** Subtracts the other value from this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun minus(other: UInt): ULong = this.minus(other.toULong())\r\n /** Subtracts the other value from this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun minus(other: ULong): ULong = ULong(this.data.minus(other.data))\r\n\r\n /** Multiplies this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun times(other: UByte): ULong = this.times(other.toULong())\r\n /** Multiplies this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun times(other: UShort): ULong = this.times(other.toULong())\r\n /** Multiplies this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun times(other: UInt): ULong = this.times(other.toULong())\r\n /** Multiplies this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun times(other: ULong): ULong = ULong(this.data.times(other.data))\r\n\r\n /** Divides this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun div(other: UByte): ULong = this.div(other.toULong())\r\n /** Divides this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun div(other: UShort): ULong = this.div(other.toULong())\r\n /** Divides this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun div(other: UInt): ULong = this.div(other.toULong())\r\n /** Divides this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun div(other: ULong): ULong = ulongDivide(this, other)\r\n\r\n /** Calculates the remainder of dividing this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun rem(other: UByte): ULong = this.rem(other.toULong())\r\n /** Calculates the remainder of dividing this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun rem(other: UShort): ULong = this.rem(other.toULong())\r\n /** Calculates the remainder of dividing this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun rem(other: UInt): ULong = this.rem(other.toULong())\r\n /** Calculates the remainder of dividing this value by the other value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun rem(other: ULong): ULong = ulongRemainder(this, other)\r\n\r\n /** Increments this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun inc(): ULong = ULong(data.inc())\r\n /** Decrements this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun dec(): ULong = ULong(data.dec())\r\n\r\n /** Creates a range from this value to the specified [other] value. */\r\n @kotlin.internal.InlineOnly\r\n public inline operator fun rangeTo(other: ULong): ULongRange = ULongRange(this, other)\r\n\r\n /** Shifts this value left by the [bitCount] number of bits. */\r\n @kotlin.internal.InlineOnly\r\n public inline infix fun shl(bitCount: Int): ULong = ULong(data shl bitCount)\r\n

/** Shifts this value right by the [bitCount] number of bits, filling the leftmost bits with zeros. */\r\n @kotlin.internal.InlineOnly\r\n public inline infix fun shr(bitCount: Int): ULong = ULong(data ushr bitCount)\r\n /** Performs a bitwise AND operation between the two values. */\r\n @kotlin.internal.InlineOnly\r\n public inline infix fun and(other: ULong): ULong = ULong(this.data and other.data)\r\n /** Performs a bitwise OR operation between the two values. */\r\n @kotlin.internal.InlineOnly\r\n public inline infix fun or(other: ULong): ULong = ULong(this.data or other.data)\r\n /** Performs a bitwise XOR operation between the two values. */\r\n @kotlin.internal.InlineOnly\r\n public inline infix fun xor(other: ULong): ULong = ULong(this.data xor other.data)\r\n /** Inverts the bits in this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline fun inv(): ULong = ULong(data.inv())\r\n\r\n /**\r\n * Converts this [ULong] value to [Byte].\r\n *\r\n * If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\r\n * the same numerical value as this `ULong`.\r\n *\r\n * The resulting `Byte` value is represented by the least significant 8 bits of this `ULong` value.\r\n * Note that the resulting `Byte` value may be negative.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toByte(): Byte = data.toByte()\r\n /**\r\n * Converts this [ULong] value to [Short].\r\n *\r\n * If this value is less than or equals to [Short.MAX_VALUE], the resulting `Short` value represents\r\n * the same numerical value as this `ULong`.\r\n *\r\n * The resulting `Short` value is represented by the least significant 16 bits of this `ULong` value.\r\n * Note that the resulting `Short` value may be negative.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toShort(): Short = data.toShort()\r\n /**\r\n * Converts this [ULong] value to [Int].\r\n *\r\n * If this value is less than or equals to [Int.MAX_VALUE], the resulting `Int` value represents\r\n * the same numerical value as this `ULong`.\r\n *\r\n * The resulting `Int` value is represented by the least significant 32 bits of this `ULong` value.\r\n * Note that the resulting `Int` value may be negative.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toInt(): Int = data.toInt()\r\n /**\r\n * Converts this [ULong] value to [Long].\r\n *\r\n * If this value is less than or equals to [Long.MAX_VALUE], the resulting `Long` value represents\r\n * the same numerical value as this `ULong`. Otherwise the result is negative.\r\n *\r\n * The resulting `Long` value has the same binary representation as this `ULong` value.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toLong(): Long = data\r\n\r\n /**\r\n * Converts this [ULong] value to [UByte].\r\n *\r\n * If this value is less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\r\n * the same numerical value as this `ULong`.\r\n *\r\n * The resulting `UByte` value is represented by the least significant 8 bits of this `ULong` value.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toUByte(): UByte = data.toUByte()\r\n /**\r\n * Converts this [ULong] value to [UShort].\r\n *\r\n * If this value is less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents\r\n * the same numerical value as this `ULong`.\r\n *\r\n * The resulting `UShort` value is represented by the least significant 16 bits of this `ULong` value.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toUShort(): UShort = data.toUShort()\r\n /**\r\n * Converts this [ULong] value to [UInt].\r\n *\r\n * If this value is less than or equals to [UInt.MAX_VALUE], the resulting `UInt` value represents\r\n * the same numerical value as this `ULong`.\r\n *\r\n * The resulting `UInt` value is represented by the least significant 32 bits of this `ULong` value.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toUInt(): UInt = data.toUInt()\r\n /** Returns this value. */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toULong(): ULong = this\r\n\r\n /**\r\n * Converts this [ULong] value to [Float].\r\n *\r\n * The resulting value is the closest `Float` to this `ULong` value.\r\n * In case when this `ULong` value is exactly between two `Float`s,\r\n * the one with zero at least significant bit of mantissa is selected.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toFloat(): Float = this.toDouble().toFloat()\r\n /**\r\n * Converts this [ULong] value to [Double].\r\n *\r\n * The resulting value is the closest `Double` to this `ULong` value.\r\n * In case when this `ULong` value is exactly between two `Double`s,\r\n * the one with zero at least significant bit of mantissa is selected.\r\n */\r\n @kotlin.internal.InlineOnly\r\n public inline fun toDouble(): Double = ulongToDouble(data)\r\n\r\n public override fun toString(): String = ulongToString(data)\r\n\r\n}\r\n\r\n/**\r\n * Converts this [Byte] value to [ULong].\r\n *\r\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Byte`.\r\n *\r\n * The least significant 8 bits of the resulting `ULong` value are the same as the bits of this `Byte`

value,\r\n * whereas the most significant 56 bits are filled with the sign bit of this value.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Byte.toULong(): ULong = ULong(this.toLong())\r\n/**\r\n * Converts this [Short] value to [ULong].\r\n *\r\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Short`.\r\n *\r\n * The least significant 16 bits of the resulting `ULong` value are the same as the bits of this `Short` value,\r\n * whereas the most significant 48 bits are filled with the sign bit of this value.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Short.toULong(): ULong = ULong(this.toLong())\r\n/**\r\n * Converts this [Int] value to [ULong].\r\n *\r\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Int`.\r\n *\r\n * The least significant 32 bits of the resulting `ULong` value are the same as the bits of this `Int` value,\r\n * whereas the most significant 32 bits are filled with the sign bit of this value.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Int.toULong(): ULong = ULong(this.toLong())\r\n/**\r\n * Converts this [Long] value to [ULong].\r\n *\r\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Long`.\r\n *\r\n * The resulting `ULong` value has the same binary representation as this `Long` value.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Long.toULong(): ULong = ULong(this)\r\n\r\n/**\r\n * Converts this [Float] value to [ULong].\r\n *\r\n * The fractional part, if any, is rounded down.\r\n * Returns zero if this `Float` value is negative or `NaN`, [ULong.MAX_VALUE] if it's bigger than `ULong.MAX_VALUE`.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Float.toULong(): ULong = doubleToULong(this.toDouble())\r\n/**\r\n * Converts this [Double] value to [ULong].\r\n *\r\n * The fractional part, if any, is rounded down.\r\n * Returns zero if this `Double` value is negative or `NaN`, [ULong.MAX_VALUE] if it's bigger than `ULong.MAX_VALUE`.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Double.toULong(): ULong = doubleToULong(this)\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// Auto-generated file. DO NOT EDIT!\r\n\r\npackage kotlin\r\n\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic inline class UShortArray\r\n@Suppress(\"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS\")\r\n@PublishedApi\r\ninternal constructor(@PublishedApi internal val storage: ShortArray) : Collection<UShort> {\r\n\r\n   /** Creates a new array of the specified [size], with all elements initialized to zero. */\r\n   public constructor(size: Int) : this(ShortArray(size))\r\n\r\n\r\n   /**\r\n   * Returns the array element at the given [index]. This method can be called using the index operator.\r\n   *\r\n   * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\r\n   * where the behavior is unspecified.\r\n   */\r\n   public operator fun get(index: Int): UShort = storage[index].toUShort()\r\n\r\n\r\n   /**\r\n   * Sets the element at the given [index] to the given [value]. This method can be called using the index operator.\r\n   *\r\n   * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\r\n   * where the behavior is unspecified.\r\n   */\r\n   public operator fun set(index: Int, value: UShort) {\r\n   storage[index] = value.toShort()\r\n   }\r\n\r\n\r\n   /** Returns the number of elements in the array. */\r\n   public override val size: Int get() = storage.size\r\n\r\n\r\n   /** Creates an iterator over the elements of the array. */\r\n   public override operator fun iterator(): UShortIterator = Iterator(storage)\r\n\r\n\r\n   private class Iterator(private val array: ShortArray) : UShortIterator() {\r\n   private var index = 0\r\n   override fun hasNext() = index < array.size\r\n   override fun nextUShort() = if (index < array.size) array[index++].toUShort() else throw NoSuchElementException(index.toString())\r\n   }\r\n\r\n\r\n   override fun contains(element: UShort): Boolean {\r\n   // TODO: Eliminate this check after KT-30016 gets fixed.\r\n   // Currently JS BE does not generate special bridge method for this method.\r\n   if ((element as Any?) !is UShort) return false\r\n\r\n\r\n   return storage.contains(element.toShort())\r\n   }\r\n\r\n\r\n   override fun containsAll(elements: Collection<UShort>): Boolean {\r\n   return (elements as Collection<*>).all { it is UShort && storage.contains(it.toShort()) }\r\n

}\r\n\r\n   override fun isEmpty(): Boolean = this.storage.size == 0\r\n}\r\n\r\n/**\r\n * Creates a new array of the specified [size], where each element is calculated by calling the specified\r\n * [init] function.\r\n *\r\n * The function [init] is called for each array element sequentially starting from the first one.\r\n * It should return the value for an array element given its index.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UShortArray(size: Int, init: (Int) -> UShort): UShortArray {\r\n   return UShortArray(ShortArray(size) { index -> init(index).toShort()
})\r\n}\r\n\r\n\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ushortArrayOf(vararg elements: UShort): UShortArray = elements\r\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"UArraysKt\")\n@file:kotlin.jvm.JvmPackageName(\"kotlin.collections.unsigned\")\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns 1st *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component1(): UInt {\n   return get(0)\n}\n\n/**\n * Returns 1st *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component1(): ULong {\n   return get(0)\n}\n\n/**\n * Returns 1st *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component1(): UByte {\n   return get(0)\n}\n\n/**\n * Returns 1st *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component1(): UShort {\n   return get(0)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component2(): UInt {\n   return get(1)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component2(): ULong {\n   return get(1)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component2(): UByte {\n   return get(1)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component2(): UShort {\n   return get(1)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component3(): UInt {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component3(): ULong {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component3(): UByte {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component3(): UShort {\n   return get(2)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component4(): UInt {\n   return get(3)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component4(): ULong {\n   return get(3)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component4(): UByte {\n   return get(3)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component4(): UShort {\n   return get(3)\n}\n\n/**\n * Returns 5th *element* from the collection.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component5(): UInt {\n   return get(4)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component5(): ULong {\n   return get(4)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component5(): UByte {\n   return get(4)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component5(): UShort {\n   return get(4)\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun UIntArray.elementAt(index: Int): UInt\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun ULongArray.elementAt(index: Int): ULong\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun UByteArray.elementAt(index: Int): UByte\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun UShortArray.elementAt(index: Int): UShort\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UInt): UInt {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> ULong): ULong {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UByte): UByte {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UShort): UShort {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.elementAtOrNull(index: Int): UInt? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

ULongArray.elementAtOrNull(index: Int): ULong? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.elementAtOrNull(index: Int): UByte? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.elementAtOrNull(index: Int): UShort? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.find(predicate: (UInt) -> Boolean): UInt? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.find(predicate: (ULong) -> Boolean): ULong? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.find(predicate: (UByte) -> Boolean): UByte? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.find(predicate: (UShort) -> Boolean): UShort? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.findLast(predicate: (UInt) -> Boolean): UInt? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.findLast(predicate: (ULong) -> Boolean): ULong? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.findLast(predicate: (UByte) -> Boolean): UByte? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.findLast(predicate: (UShort) -> Boolean): UShort? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.first(): UInt {\n   return storage.first().toUInt()\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.first(): ULong {\n   return storage.first().toULong()\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.first(): UByte {\n   return storage.first().toUByte()\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.first(): UShort {\n   return storage.first().toUShort()\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.first(predicate: (UInt) -> Boolean): UInt {\n   for (element in this) if (predicate(element)) return

element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.first(predicate: (ULong) -> Boolean): ULong {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.first(predicate: (UByte) -> Boolean): UByte {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.first(predicate: (UShort) -> Boolean): UShort {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.firstOrNull(): UInt? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.firstOrNull(): ULong? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.firstOrNull(): UByte? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.firstOrNull(): UShort? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.firstOrNull(predicate: (UInt) -> Boolean): UInt? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.firstOrNull(predicate: (ULong) -> Boolean): ULong? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.firstOrNull(predicate: (UByte) -> Boolean): UByte? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.firstOrNull(predicate: (UShort) -> Boolean): UShort? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.getOrElse(index: Int, defaultValue: (Int) -> UInt): UInt {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.getOrElse(index: Int, defaultValue: (Int) -> ULong): ULong {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of

calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.getOrElse(index: Int, defaultValue: (Int) -> UByte): UByte {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.getOrElse(index: Int, defaultValue: (Int) -> UShort): UShort {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.getOrNull(index: Int): UInt? {\n   return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.getOrNull(index: Int): ULong? {\n   return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.getOrNull(index: Int): UByte? {\n   return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.getOrNull(index: Int): UShort? {\n   return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.indexOf(element: UInt): Int {\n   return storage.indexOf(element.toInt())\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.indexOf(element: ULong): Int {\n   return storage.indexOf(element.toLong())\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.indexOf(element: UByte): Int {\n   return storage.indexOf(element.toByte())\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.indexOf(element: UShort): Int {\n   return storage.indexOf(element.toShort())\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.indexOfFirst(predicate: (UInt) -> Boolean): Int {\n   return storage.indexOfFirst { predicate(it.toUInt()) }\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.indexOfFirst(predicate: (ULong) -> Boolean): Int {\n   return storage.indexOfFirst { predicate(it.toULong()) }\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.indexOfFirst(predicate: (UByte) -> Boolean): Int {\n   return storage.indexOfFirst { predicate(it.toUByte()) }\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.indexOfFirst(predicate: (UShort) -> Boolean): Int {\n   return storage.indexOfFirst { predicate(it.toUShort()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

UIntArray.indexOfLast(predicate: (UInt) -> Boolean): Int {\n   return storage.indexOfLast { predicate(it.toUInt()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.indexOfLast(predicate: (ULong) -> Boolean): Int {\n   return storage.indexOfLast { predicate(it.toULong()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.indexOfLast(predicate: (UByte) -> Boolean): Int {\n   return storage.indexOfLast { predicate(it.toUByte()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.indexOfLast(predicate: (UShort) -> Boolean): Int {\n   return storage.indexOfLast { predicate(it.toUShort()) }\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.last(): UInt {\n   return storage.last().toUInt()\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.last(): ULong {\n   return storage.last().toULong()\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.last(): UByte {\n   return storage.last().toUByte()\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.last(): UShort {\n   return storage.last().toUShort()\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.last(predicate: (UInt) -> Boolean): UInt {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.last(predicate: (ULong) -> Boolean): ULong {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.last(predicate: (UByte) -> Boolean): UByte {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.last(predicate: (UShort) -> Boolean): UShort {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.lastIndexOf(element: UInt): Int {\n   return storage.lastIndexOf(element.toInt())\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.lastIndexOf(element: ULong): Int {\n   return storage.lastIndexOf(element.toLong())\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.lastIndexOf(element: UByte): Int {\n   return storage.lastIndexOf(element.toByte())\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.lastIndexOf(element: UShort): Int {\n   return storage.lastIndexOf(element.toShort())\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.lastOrNull(): UInt? {\n   return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.lastOrNull(): ULong? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.lastOrNull(): UByte? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.lastOrNull(): UShort? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.lastOrNull(predicate: (UInt) -> Boolean): UInt? {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.lastOrNull(predicate: (ULong) -> Boolean): ULong? {\n   for (index in this.indices.reversed()) {\n val element = this[index]\n   if (predicate(element)) return element\n   }\n   return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.lastOrNull(predicate: (UByte) -> Boolean): UByte? {\n   for (index in this.indices.reversed()) {\n val element = this[index]\n   if (predicate(element)) return element\n   }\n   return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.lastOrNull(predicate: (UShort) -> Boolean): UShort? {\n   for (index in this.indices.reversed()) {\n val element = this[index]\n   if (predicate(element)) return element\n   }\n   return null\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.random(): UInt {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.random(): ULong {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.random(): UByte {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.random(): UShort {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.random(random: Random): UInt {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return

get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.random(random: Random): ULong {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.random(random: Random): UByte {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.random(random: Random): UShort {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.single(): UInt {\n   return storage.single().toUInt()\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.single(): ULong {\n   return storage.single().toULong()\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.single(): UByte {\n   return storage.single().toUByte()\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.single(): UShort {\n   return storage.single().toUShort()\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.single(predicate: (UInt) -> Boolean): UInt {\n   var single: UInt? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n   single = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as UInt\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.single(predicate: (ULong) -> Boolean): ULong {\n   var single: ULong? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n   single = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as ULong\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.single(predicate: (UByte) -> Boolean): UByte {\n   var single: UByte? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n   single = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as UByte\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

UShortArray.single(predicate: (UShort) -> Boolean): UShort {\n var single: UShort? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n single = element\n found = true\n }\n }\n if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n @Suppress(\"UNCHECKED_CAST\")\n return single as UShort\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.singleOrNull(): UInt? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.singleOrNull(): ULong? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.singleOrNull(): UByte? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.singleOrNull(): UShort? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.singleOrNull(predicate: (UInt) -> Boolean): UInt? {\n var single: UInt? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.singleOrNull(predicate: (ULong) -> Boolean): ULong? {\n var single: ULong? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.singleOrNull(predicate: (UByte) -> Boolean): UByte? {\n var single: UByte? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.singleOrNull(predicate: (UShort) -> Boolean): UShort? {\n var single: UShort? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.drop(n: Int): List<UInt> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.drop(n: Int): List<ULong> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.drop(n: Int): List<UByte> {\n

require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.drop(n: Int): List<UShort> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.dropLast(n: Int): List<UInt> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.dropLast(n: Int): List<ULong> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.dropLast(n: Int): List<UByte> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.dropLast(n: Int): List<UShort> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.dropLastWhile(predicate: (UInt) -> Boolean): List<UInt> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return take(index + 1)\n   }\n   }\n   return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.dropLastWhile(predicate: (ULong) -> Boolean): List<ULong> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return take(index + 1)\n   }\n   }\n   return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.dropLastWhile(predicate: (UByte) -> Boolean): List<UByte> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return take(index + 1)\n   }\n   }\n   return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.dropLastWhile(predicate: (UShort) -> Boolean): List<UShort> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return take(index + 1)\n   }\n   }\n   return emptyList()\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.dropWhile(predicate: (UInt) -> Boolean): List<UInt> {\n   var yielding = false\n   val list = ArrayList<UInt>()\n   for (item in this)\n   if (yielding)\n   list.add(item)\n   else if (!predicate(item)) {\n   list.add(item)\n   yielding = true\n   }\n   return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.dropWhile(predicate: (ULong) -> Boolean): List<ULong> {\n   var yielding = false\n   val list = ArrayList<ULong>()\n   for (item in this)\n   if (yielding)\n   list.add(item)\n   else if (!predicate(item)) {\n   list.add(item)\n   yielding = true\n   }\n   return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.dropWhile(predicate: (UByte) -> Boolean): List<UByte> {\n   var yielding = false\n   val list = ArrayList<UByte>()\n   for (item in this)\n   if (yielding)\n   list.add(item)\n   else if (!predicate(item)) {\n   list.add(item)\n   yielding = true\n   }\n   return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.dropWhile(predicate: (UShort) -> Boolean): List<UShort> {\n   var yielding = false\n   val list = ArrayList<UShort>()\n   for (item in this)\n   if (yielding)\n   list.add(item)\n   else if (!predicate(item)) {\n   list.add(item)\n   yielding = true\n   }\n   return list\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.filter(predicate: (UInt) -> Boolean): List<UInt> {\n   return filterTo(ArrayList<UInt>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.filter(predicate: (ULong) -> Boolean): List<ULong> {\n   return filterTo(ArrayList<ULong>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.filter(predicate: (UByte) -> Boolean): List<UByte> {\n   return filterTo(ArrayList<UByte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.filter(predicate: (UShort) -> Boolean): List<UShort> {\n   return filterTo(ArrayList<UShort>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.filterIndexed(predicate: (index: Int, UInt) -> Boolean): List<UInt> {\n   return filterIndexedTo(ArrayList<UInt>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.filterIndexed(predicate: (index: Int, ULong) -> Boolean): List<ULong> {\n   return filterIndexedTo(ArrayList<ULong>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

UByteArray.filterIndexed(predicate: (index: Int, UByte) -> Boolean): List<UByte> {\n   return filterIndexedTo(ArrayList<UByte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.filterIndexed(predicate: (index: Int, UShort) -> Boolean): List<UShort> {\n   return filterIndexedTo(ArrayList<UShort>(), predicate)\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UInt>> UIntArray.filterIndexedTo(destination: C, predicate: (index: Int, UInt) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in ULong>> ULongArray.filterIndexedTo(destination: C, predicate: (index: Int, ULong) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UByte>> UByteArray.filterIndexedTo(destination: C, predicate: (index: Int, UByte) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UShort>> UShortArray.filterIndexedTo(destination: C, predicate: (index: Int, UShort) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n   return destination\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.filterNot(predicate: (UInt) -> Boolean): List<UInt> {\n   return filterNotTo(ArrayList<UInt>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.filterNot(predicate: (ULong) -> Boolean): List<ULong> {\n   return filterNotTo(ArrayList<ULong>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.filterNot(predicate: (UByte) -> Boolean): List<UByte> {\n   return filterNotTo(ArrayList<UByte>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.filterNot(predicate: (UShort) -> Boolean): List<UShort> {\n   return filterNotTo(ArrayList<UShort>(), predicate)\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UInt>> UIntArray.filterNotTo(destination: C, predicate: (UInt) -> Boolean): C {\n   for (element in this) if (!predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all

elements not matching the given [predicate] to the given [destination].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in ULong>> ULongArray.filterNotTo(destination: C, predicate: (ULong) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UByte>> UByteArray.filterNotTo(destination: C, predicate: (UByte) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UShort>> UShortArray.filterNotTo(destination: C, predicate: (UShort) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UInt>> UIntArray.filterTo(destination: C, predicate: (UInt) -> Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in ULong>> ULongArray.filterTo(destination: C, predicate: (ULong) -> Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UByte>> UByteArray.filterTo(destination: C, predicate: (UByte) -> Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UShort>> UShortArray.filterTo(destination: C, predicate: (UShort) -> Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.slice(indices: IntRange): List<UInt> {\n if (indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.slice(indices: IntRange): List<ULong> {\n if (indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.slice(indices: IntRange): List<UByte> {\n if (indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.slice(indices: IntRange): List<UShort> {\n if (indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.slice(indices: Iterable<Int>): List<UInt> {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list = ArrayList<UInt>(size)\n for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.slice(indices: Iterable<Int>): List<ULong> {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list = ArrayList<ULong>(size)\n for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n *

Returns a list containing elements at specified [indices].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.slice(indices: Iterable<Int>): List<UByte> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<UByte>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.slice(indices: Iterable<Int>): List<UShort> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<UShort>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sliceArray(indices: Collection<Int>): UIntArray {\n   return UIntArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sliceArray(indices: Collection<Int>): ULongArray {\n   return ULongArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sliceArray(indices: Collection<Int>): UByteArray {\n   return UByteArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sliceArray(indices: Collection<Int>): UShortArray {\n   return UShortArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sliceArray(indices: IntRange): UIntArray {\n   return UIntArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sliceArray(indices: IntRange): ULongArray {\n   return ULongArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sliceArray(indices: IntRange): UByteArray {\n   return UByteArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sliceArray(indices: IntRange): UShortArray {\n   return UShortArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.take(n: Int): List<UInt> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<UInt>(n)\n   for (item in this) {\n   if (count++ == n)\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.take(n: Int): List<ULong> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<ULong>(n)\n   for (item in this) {\n   if (count++ == n)\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.take(n: Int): List<UByte> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (n >=

size) return toList()\n   if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<UByte>(n)\n   for (item in this) {\n   if (count++ == n)\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.take(n: Int): List<UShort> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<UShort>(n)\n   for (item in this) {\n   if (count++ == n)\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.takeLast(n: Int): List<UInt> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   val size = size\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[size - 1])\n   val list = ArrayList<UInt>(n)\n   for (index in size - n until size)\n   list.add(this[index])\n   return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.takeLast(n: Int): List<ULong> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   val size = size\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[size - 1])\n   val list = ArrayList<ULong>(n)\n   for (index in size - n until size)\n   list.add(this[index])\n   return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.takeLast(n: Int): List<UByte> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   val size = size\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[size - 1])\n   val list = ArrayList<UByte>(n)\n   for (index in size - n until size)\n   list.add(this[index])\n   return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.takeLast(n: Int): List<UShort> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   val size = size\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[size - 1])\n   val list = ArrayList<UShort>(n)\n   for (index in size - n until size)\n   list.add(this[index])\n   return list\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.takeLastWhile(predicate: (UInt) -> Boolean): List<UInt> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return drop(index + 1)\n   }\n   }\n   return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.takeLastWhile(predicate: (ULong) -> Boolean): List<ULong> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return drop(index + 1)\n   }\n   }\n   return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.takeLastWhile(predicate: (UByte) -> Boolean): List<UByte> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return drop(index + 1)\n   }\n   }\n   return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample

samples.collections.Collections.Transformations.take\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.takeLastWhile(predicate: (UShort) -> Boolean): List<UShort> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.takeWhile(predicate: (UInt) -> Boolean): List<UInt> {\n val list = ArrayList<UInt>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.takeWhile(predicate: (ULong) -> Boolean): List<ULong> {\n val list = ArrayList<ULong>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.takeWhile(predicate: (UByte) -> Boolean): List<UByte> {\n val list = ArrayList<UByte>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.takeWhile(predicate: (UShort) -> Boolean): List<UShort> {\n val list = ArrayList<UShort>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Reverses elements in the array in-place.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reverse(): Unit {\n storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reverse(): Unit {\n storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reverse(): Unit {\n storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reverse(): Unit {\n storage.reverse()\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.reversed(): List<UInt> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.reversed(): List<ULong> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.reversed(): List<UByte> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.reversed(): List<UShort> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reversedArray(): UIntArray {\n return UIntArray(storage.reversedArray())\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reversedArray(): ULongArray {\n return ULongArray(storage.reversedArray())\n}\n\n/**\n *

Returns an array with elements of this array in reversed order.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reversedArray(): UByteArray {\n   return UByteArray(storage.reversedArray())\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reversedArray(): UShortArray {\n   return UShortArray(storage.reversedArray())\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortDescending(): Unit {\n   if (size > 1) {\n   sort()\n   reverse()\n   }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortDescending(): Unit {\n   if (size > 1) {\n   sort()\n   reverse()\n   }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortDescending(): Unit {\n   if (size > 1) {\n   sort()\n   reverse()\n   }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortDescending(): Unit {\n   if (size > 1) {\n   sort()\n   reverse()\n   }\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sorted(): List<UInt> {\n   return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sorted(): List<ULong> {\n   return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sorted(): List<UByte> {\n   return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sorted(): List<UShort> {\n   return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortedArray(): UIntArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortedArray(): ULongArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortedArray(): UByteArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedArray(): UShortArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortedArrayDescending(): UIntArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortedArrayDescending(): ULongArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortedArrayDescending(): UByteArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedArrayDescending():

UShortArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortedDescending(): List<UInt> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortedDescending(): List<ULong> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortedDescending(): List<UByte> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedDescending(): List<UShort> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns an array of type [ByteArray], which is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.asByteArray(): ByteArray {\n   return storage\n}\n\n/**\n * Returns an array of type [IntArray], which is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.asIntArray(): IntArray {\n   return storage\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun UIntArray.asList(): List<UInt>\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun ULongArray.asList(): List<ULong>\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun UByteArray.asList(): List<UByte>\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun UShortArray.asList(): List<UShort>\n\n/**\n * Returns an array of type [LongArray], which is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.asLongArray(): LongArray {\n   return storage\n}\n\n/**\n * Returns an array of type [ShortArray], which is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.asShortArray(): ShortArray {\n   return storage\n}\n\n/**\n * Returns an array of type [UByteArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.asUByteArray(): UByteArray {\n   return UByteArray(this)\n}\n\n/**\n * Returns an array of type [UIntArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.asUIntArray(): UIntArray {\n   return UIntArray(this)\n}\n\n/**\n * Returns an array of type [ULongArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.asULongArray(): ULongArray {\n   return ULongArray(this)\n}\n\n/**\n * Returns an array of type [UShortArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the

corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.asUShortArray(): UShortArray {\n   return UShortArray(this)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UIntArray.contentEquals(other: UIntArray): Boolean {\n   return storage.contentEquals(other.storage)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun ULongArray.contentEquals(other: ULongArray): Boolean {\n   return storage.contentEquals(other.storage)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UByteArray.contentEquals(other: UByteArray): Boolean {\n   return storage.contentEquals(other.storage)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UShortArray.contentEquals(other: UShortArray): Boolean {\n   return storage.contentEquals(other.storage)\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.contentHashCode(): Int {\n   return storage.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.contentHashCode(): Int {\n   return storage.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.contentHashCode(): Int {\n return storage.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.contentHashCode(): Int {\n   return storage.contentHashCode()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.contentToString(): String {\n return joinToString(\", \", \"[\", \"]\")\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.contentToString(): String {\n return joinToString(\", \", \"[\", \"]\")\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.contentToString(): String {\n return joinToString(\", \", \"[\", \"]\")\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.contentToString(): String {\n return joinToString(\", \", \"[\", \"]\")\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

UIntArray.copyInto(destination: UIntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): UIntArray {\n   storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.copyInto(destination: ULongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ULongArray {\n   storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.copyInto(destination: UByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): UByteArray {\n   storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.copyInto(destination: UShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): UShortArray {\n   storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.copyOf(): UIntArray {\n   return UIntArray(storage.copyOf())\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.copyOf(): ULongArray {\n   return ULongArray(storage.copyOf())\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.copyOf(): UByteArray {\n   return UByteArray(storage.copyOf())\n}\n\n/**\n * Returns new array

which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.copyOf(): UShortArray {\n   return UShortArray(storage.copyOf())\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.copyOf(newSize: Int): UIntArray {\n   return UIntArray(storage.copyOf(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.copyOf(newSize: Int): ULongArray {\n   return ULongArray(storage.copyOf(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.copyOf(newSize: Int): UByteArray {\n   return UByteArray(storage.copyOf(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.copyOf(newSize: Int): UShortArray {\n   return UShortArray(storage.copyOf(newSize))\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.copyOfRange(fromIndex: Int, toIndex: Int): UIntArray {\n   return UIntArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.copyOfRange(fromIndex: Int, toIndex: Int): ULongArray {\n   return ULongArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.copyOfRange(fromIndex: Int, toIndex: Int): UByteArray {\n   return UByteArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.copyOfRange(fromIndex: Int, toIndex: Int): UShortArray {\n   return UShortArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Fills this array or its subrange with the

specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.fill(element: UInt, fromIndex: Int = 0, toIndex: Int = size): Unit {\n storage.fill(element.toInt(), fromIndex, toIndex)\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.fill(element: ULong, fromIndex: Int = 0, toIndex: Int = size): Unit {\n storage.fill(element.toLong(), fromIndex, toIndex)\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.fill(element: UByte, fromIndex: Int = 0, toIndex: Int = size): Unit {\n storage.fill(element.toByte(), fromIndex, toIndex)\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.fill(element: UShort, fromIndex: Int = 0, toIndex: Int = size): Unit {\n storage.fill(element.toShort(), fromIndex, toIndex)\n}\n\n/**\n * Returns the range of valid indices for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val UIntArray.indices: IntRange\n get() = storage.indices\n\n/**\n * Returns the range of valid indices for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val ULongArray.indices: IntRange\n get() = storage.indices\n\n/**\n * Returns the range of valid indices for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val UByteArray.indices: IntRange\n get() = storage.indices\n\n/**\n * Returns the range of valid indices for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val UShortArray.indices: IntRange\n get() = storage.indices\n\n/**\n * Returns the last valid index for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val UIntArray.lastIndex: Int\n get() = storage.lastIndex\n\n/**\n * Returns the last valid index for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val ULongArray.lastIndex: Int\n get() = storage.lastIndex\n\n/**\n * Returns the last valid index for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val UByteArray.lastIndex: Int\n get() = storage.lastIndex\n\n/**\n * Returns the last valid index for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val UShortArray.lastIndex: Int\n get() = storage.lastIndex\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.plus(element: UInt): UIntArray {\n return UIntArray(storage + element.toInt())\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.plus(element: ULong): ULongArray {\n return ULongArray(storage + element.toLong())\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline

operator fun UByteArray.plus(element: UByte): UByteArray {\n   return UByteArray(storage + element.toByte())\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.plus(element: UShort): UShortArray {\n   return UShortArray(storage + element.toShort())\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun UIntArray.plus(elements: Collection<UInt>): UIntArray {\n   var index = size\n   val result = storage.copyOf(size + elements.size)\n   for (element in elements) result[index++] = element.toInt()\n   return UIntArray(result)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun ULongArray.plus(elements: Collection<ULong>): ULongArray {\n   var index = size\n   val result = storage.copyOf(size + elements.size)\n   for (element in elements) result[index++] = element.toLong()\n   return ULongArray(result)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun UByteArray.plus(elements: Collection<UByte>): UByteArray {\n   var index = size\n   val result = storage.copyOf(size + elements.size)\n   for (element in elements) result[index++] = element.toByte()\n   return UByteArray(result)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun UShortArray.plus(elements: Collection<UShort>): UShortArray {\n   var index = size\n   val result = storage.copyOf(size + elements.size)\n   for (element in elements) result[index++] = element.toShort()\n   return UShortArray(result)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.plus(elements: UIntArray): UIntArray {\n   return UIntArray(storage + elements.storage)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.plus(elements: ULongArray): ULongArray {\n   return ULongArray(storage + elements.storage)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.plus(elements: UByteArray): UByteArray {\n   return UByteArray(storage + elements.storage)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.plus(elements: UShortArray): UShortArray {\n   return UShortArray(storage + elements.storage)\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sort(): Unit {\n   if (size > 1) sortArray(this)\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sort(): Unit {\n   if (size > 1) sortArray(this)\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sort(): Unit {\n   if (size > 1) sortArray(this)\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sort(): Unit {\n   if (size > 1) sortArray(this)\n}\n\n/**\n * Returns an array of type [ByteArray], which is a copy of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.toByteArray(): ByteArray {\n   return storage.copyOf()\n}\n\n/**\n * Returns an array of type

[IntArray], which is a copy of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.toIntArray(): IntArray {\n   return storage.copyOf()\n}\n\n/**\n * Returns an array of type [LongArray], which is a copy of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.toLongArray(): LongArray {\n   return storage.copyOf()\n}\n\n/**\n * Returns an array of type [ShortArray], which is a copy of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.toShortArray(): ShortArray {\n   return storage.copyOf()\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.toTypedArray(): Array<UInt> {\n   return Array(size) { index -> this[index] }\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.toTypedArray(): Array<ULong> {\n   return Array(size) { index -> this[index] }\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.toTypedArray(): Array<UByte> {\n   return Array(size) { index -> this[index] }\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.toTypedArray(): Array<UShort> {\n   return Array(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of UByte containing all of the elements of this generic array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Array<out UByte>.toUByteArray(): UByteArray {\n   return UByteArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type [UByteArray], which is a copy of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.toUByteArray(): UByteArray {\n   return UByteArray(this.copyOf())\n}\n\n/**\n * Returns an array of UInt containing all of the elements of this generic array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Array<out UInt>.toUIntArray(): UIntArray {\n   return UIntArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type [UIntArray], which is a copy of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.toUIntArray(): UIntArray {\n   return UIntArray(this.copyOf())\n}\n\n/**\n * Returns an array of ULong containing all of the elements of this generic array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Array<out ULong>.toULongArray(): ULongArray {\n   return ULongArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type [ULongArray], which is a copy of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.toULongArray(): ULongArray {\n   return ULongArray(this.copyOf())\n}\n\n/**\n * Returns an array of UShort containing all of the elements of this generic array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Array<out UShort>.toUShortArray(): UShortArray {\n   return UShortArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type [UShortArray], which is a copy of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.toUShortArray(): UShortArray {\n   return UShortArray(this.copyOf())\n}\n\n/**\n * Returns a single

list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.flatMap(transform: (UInt) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.flatMap(transform: (ULong) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.flatMap(transform: (UByte) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.flatMap(transform: (UShort) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UIntArray.flatMapTo(destination: C, transform: (UInt) -> Iterable<R>): C {\n   for (element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> ULongArray.flatMapTo(destination: C, transform: (ULong) -> Iterable<R>): C {\n   for (element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UByteArray.flatMapTo(destination: C, transform: (UByte) -> Iterable<R>): C {\n   for (element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UShortArray.flatMapTo(destination: C, transform: (UShort) -> Iterable<R>): C {\n   for (element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K> UIntArray.groupBy(keySelector: (UInt) -> K): Map<K, List<UInt>> {\n   return groupByTo(LinkedHashMap<K, MutableList<UInt>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K> ULongArray.groupBy(keySelector: (ULong) -> K): Map<K, List<ULong>> {\n   return groupByTo(LinkedHashMap<K, MutableList<ULong>>(), keySelector)\n}\n\n/**\n * Groups elements of the

original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K> UByteArray.groupBy(keySelector: (UByte) -> K): Map<K, List<UByte>> {\n   return groupByTo(LinkedHashMap<K, MutableList<UByte>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K> UShortArray.groupBy(keySelector: (UShort) -> K): Map<K, List<UShort>> {\n   return groupByTo(LinkedHashMap<K, MutableList<UShort>>(), keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> UIntArray.groupBy(keySelector: (UInt) -> K, valueTransform: (UInt) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> ULongArray.groupBy(keySelector: (ULong) -> K, valueTransform: (ULong) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> UByteArray.groupBy(keySelector: (UByte) -> K, valueTransform: (UByte) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> UShortArray.groupBy(keySelector: (UShort) -> K, valueTransform: (UShort) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M : MutableMap<in K, MutableList<UInt>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<UInt>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M : MutableMap<in K, MutableList<ULong>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<ULong>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M : MutableMap<in K, MutableList<UByte>>> UByteArray.groupByTo(destination: M, keySelector: (UByte) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<UByte>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M : MutableMap<in K, MutableList<UShort>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<UShort>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K, valueTransform: (UInt) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K, valueTransform: (ULong) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> UByteArray.groupByTo(destination: M, keySelector: (UByte) -> K, valueTransform: (UByte) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list

= destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K, valueTransform: (UShort) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.map(transform: (UInt) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.map(transform: (ULong) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample 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*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.mapIndexed(transform: (index: Int, UInt) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.mapIndexed(transform: (index: Int, ULong) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.mapIndexed(transform: (index: Int, UByte) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.mapIndexed(transform: (index: Int, UShort) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the

transform applied to the element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UIntArray.mapIndexedTo(destination: C, transform: (index: Int, UInt) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> ULongArray.mapIndexedTo(destination: C, transform: (index: Int, ULong) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n
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*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UShortArray.mapIndexedTo(destination: C, transform: (index: Int, UShort) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n
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*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> ULongArray.mapTo(destination: C, transform: (ULong) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UByteArray.mapTo(destination: C, transform: (UByte) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UShortArray.mapTo(destination: C, transform: (UShort) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.withIndex(): Iterable<IndexedValue<UInt>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.withIndex(): Iterable<IndexedValue<ULong>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.withIndex(): Iterable<IndexedValue<UByte>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable]

that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.withIndex(): Iterable<IndexedValue<UShort>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.all(predicate: (UInt) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.all(predicate: (ULong) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.all(predicate: (UByte) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.all(predicate: (UShort) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.any(): Boolean {\n   return storage.any()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.any(): Boolean {\n   return storage.any()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.any(): Boolean {\n   return storage.any()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.any(): Boolean {\n   return storage.any()\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.any(predicate: (UInt) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return true\n   return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.any(predicate: (ULong) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return true\n   return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.any(predicate: (UByte) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return true\n   return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.any(predicate: (UShort) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return true\n   return false\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

UIntArray.count(predicate: (UInt) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.count(predicate: (ULong) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.count(predicate: (UByte) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.count(predicate: (UShort) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.fold(initial: R, operation: (acc: R, UInt) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.fold(initial: R, operation: (acc: R, ULong) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.fold(initial: R, operation: (acc: R, UByte) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.fold(initial: R, operation: (acc: R, UShort) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.foldIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to

right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UShort) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.foldRight(initial: R, operation: (UInt, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.foldRight(initial: R, operation: (ULong, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.foldRight(initial: R, operation: (UByte, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.foldRight(initial: R, operation: (UShort, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.foldRightIndexed(initial: R, operation: (index: Int, UInt, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.foldRightIndexed(initial: R, operation: (index: Int, ULong, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.foldRightIndexed(initial: R, operation: (index: Int, UByte, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial]

value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.foldRightIndexed(initial: R, operation: (index: Int, UShort, acc: R) -> R): R {\n   var index = lastIndex\n   var accumulator = initial\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Performs the given [action] on each element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.forEach(action: (UInt) -> Unit): Unit {\n   for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.forEach(action: (ULong) -> Unit): Unit {\n   for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.forEach(action: (UByte) -> Unit): Unit {\n   for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.forEach(action: (UShort) -> Unit): Unit {\n   for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.forEachIndexed(action: (index: Int, UInt) -> Unit): Unit {\n   var index = 0\n   for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.forEachIndexed(action: (index: Int, ULong) -> Unit): Unit {\n   var index = 0\n   for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.forEachIndexed(action: (index: Int, UByte) -> Unit): Unit {\n   var index = 0\n   for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.forEachIndexed(action: (index: Int, UShort) -> Unit): Unit {\n   var index = 0\n   for (item in this) action(index++, item)\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.max(): UInt? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (max < e) max = e\n   }\n   return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.max(): ULong? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (max < e) max = e\n   }\n   return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.max(): UByte? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (max < e) max = e\n   }\n   return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.max(): UShort? {\n   if

(isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (max < e) max = e\n   }\n   return max\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UIntArray.maxBy(selector: (UInt) -> R): UInt? {\n   if (isEmpty()) return null\n   var maxElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return maxElem\n   var maxValue = selector(maxElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (maxValue < v) {\n   maxElem = e\n   maxValue = v\n   }\n   }\n   return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ULongArray.maxBy(selector: (ULong) -> R): ULong? {\n   if (isEmpty()) return null\n   var maxElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return maxElem\n   var maxValue = selector(maxElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (maxValue < v) {\n   maxElem = e\n   maxValue = v\n   }\n   }\n   return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UByteArray.maxBy(selector: (UByte) -> R): UByte? {\n   if (isEmpty()) return null\n   var maxElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return maxElem\n   var maxValue = selector(maxElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (maxValue < v) {\n   maxElem = e\n   maxValue = v\n   }\n   }\n   return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UShortArray.maxBy(selector: (UShort) -> R): UShort? {\n   if (isEmpty()) return null\n   var maxElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return maxElem\n   var maxValue = selector(maxElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (maxValue < v) {\n   maxElem = e\n   maxValue = v\n   }\n   }\n   return maxElem\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.maxWith(comparator: Comparator<in UInt>): UInt? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(max, e) < 0) max = e\n   }\n   return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.maxWith(comparator: Comparator<in ULong>): ULong? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(max, e) < 0) max = e\n   }\n   return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.maxWith(comparator: Comparator<in UByte>): UByte? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(max, e) < 0) max = e\n   }\n   return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.maxWith(comparator: Comparator<in UShort>): UShort? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(max, e) < 0) max = e\n   }\n   return max\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.min(): UInt? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (min > e) min = e\n   }\n

return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.min(): ULong? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.min(): UByte? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.min(): UShort? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UIntArray.minBy(selector: (UInt) -> R): UInt? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ULongArray.minBy(selector: (ULong) -> R): ULong? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UByteArray.minBy(selector: (UByte) -> R): UByte? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UShortArray.minBy(selector: (UShort) -> R): UShort? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.minWith(comparator: Comparator<in UInt>): UInt? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.minWith(comparator: Comparator<in ULong>): ULong? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.minWith(comparator: Comparator<in UByte>): UByte? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n

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    val e = this[i]\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.minWith(comparator: Comparator<in UShort>): UShort? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.none(): Boolean {\n    return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.none(): Boolean {\n    return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.none(): Boolean {\n    return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.none(): Boolean {\n    return isEmpty()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.none(predicate: (UInt) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return false\n    return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.none(predicate: (ULong) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return false\n    return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.none(predicate: (UByte) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return false\n    return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.none(predicate: (UShort) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return false\n    return true\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduce(operation: (acc: UInt, UInt) -> UInt): UInt {\n    if (isEmpty())\n        throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n    var accumulator = this[0]\n    for (index in 1..lastIndex) {\n        accumulator = operation(accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduce(operation: (acc: ULong, ULong) -> ULong): ULong {\n    if (isEmpty())\n        throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n    var accumulator = this[0]\n    for (index in 1..lastIndex) {\n        accumulator = operation(accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduce(operation: (acc: UByte, UByte) -> UByte): UByte {\n    if (isEmpty())\n        throw
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ULongArray.reduceRight(operation: (ULong, acc: ULong) -> ULong): ULong {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduceRight(operation: (UByte, acc: UByte) -> UByte): UByte {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceRight(operation: (UShort, acc: UShort) -> UShort): UShort {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduceRightIndexed(operation: (index: Int, UInt, acc: UInt) -> UInt): UInt {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduceRightIndexed(operation: (index: Int, ULong, acc: ULong) -> ULong): ULong {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduceRightIndexed(operation: (index: Int, UByte, acc: UByte) -> UByte): UByte {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceRightIndexed(operation: (index: Int, UShort, acc: UShort) -> UShort): UShort {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Returns the sum of all values produced by

[selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumBy(selector: (UInt) -> UInt): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
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*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumByDouble(selector: (UInt) -> Double): Double {\n   var sum: Double = 0.0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumByDouble(selector: (ULong) -> Double): Double {\n   var sum: Double = 0.0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumByDouble(selector: (UByte) -> Double): Double {\n   var sum: Double = 0.0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sumByDouble(selector: (UShort) -> Double): Double {\n   var sum: Double = 0.0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UIntArray.zip(other: Array<out R>): List<Pair<UInt, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> ULongArray.zip(other: Array<out R>): List<Pair<ULong, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UByteArray.zip(other: Array<out R>): List<Pair<UByte, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UShortArray.zip(other: Array<out R>): List<Pair<UShort, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of

values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UIntArray.zip(other: Array<out R>, transform: (a: UInt, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> ULongArray.zip(other: Array<out R>, transform: (a: ULong, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UByteArray.zip(other: Array<out R>, transform: (a: UByte, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UShortArray.zip(other: Array<out R>, transform: (a: UShort, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UIntArray.zip(other: Iterable<R>): List<Pair<UInt, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> ULongArray.zip(other: Iterable<R>): List<Pair<ULong, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UByteArray.zip(other: Iterable<R>): List<Pair<UByte, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UShortArray.zip(other: Iterable<R>): List<Pair<UShort, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>

UIntArray.zip(other: Iterable<R>, transform: (a: UInt, b: R) -> V): List<V> {\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> ULongArray.zip(other: Iterable<R>, transform: (a: ULong, b: R) -> V): List<V> {\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UByteArray.zip(other: Iterable<R>, transform: (a: UByte, b: R) -> V): List<V> {\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UShortArray.zip(other: Iterable<R>, transform: (a: UShort, b: R) -> V): List<V> {\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UIntArray.zip(other: UIntArray): List<Pair<UInt, UInt>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun ULongArray.zip(other: ULongArray): List<Pair<ULong, ULong>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UByteArray.zip(other: UByteArray): List<Pair<UByte, UByte>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UShortArray.zip(other: UShortArray): List<Pair<UShort, UShort>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V> UIntArray.zip(other: UIntArray, transform: (a: UInt, b: UInt) -> V): List<V> {\n val size = minOf(size, other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array

with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V> ULongArray.zip(other: ULongArray, transform: (a: ULong, b: ULong) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V> UByteArray.zip(other: UByteArray, transform: (a: UByte, b: UByte) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V> UShortArray.zip(other: UShortArray, transform: (a: UShort, b: UShort) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Array<out UInt>.sum(): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Array<out ULong>.sum(): ULong {\n   var sum: ULong = 0uL\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfUByte\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Array<out UByte>.sum(): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfUShort\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Array<out UShort>.sum(): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sum(): UInt {\n   return storage.sum().toUInt()\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sum(): ULong {\n   return storage.sum().toULong()\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sum(): UInt {\n   return sumBy { it.toUInt() }\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sum(): UInt {\n   return sumBy { it.toUInt() }\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"UCollectionsKt\")\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns an array of UByte containing all of the elements of this collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun

Collection<UByte>.toUByteArray(): UByteArray {\n val result = UByteArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return result\n}\n\n/**\n * Returns an array of UInt containing all of the elements of this collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Collection<UInt>.toUIntArray(): UIntArray {\n val result = UIntArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return result\n}\n\n/**\n * Returns an array of ULong containing all of the elements of this collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Collection<ULong>.toULongArray(): ULongArray {\n val result = ULongArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return result\n}\n\n/**\n * Returns an array of UShort containing all of the elements of this collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Collection<UShort>.toUShortArray(): UShortArray {\n val result = UShortArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return result\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Iterable<UInt>.sum(): UInt {\n var sum: UInt = 0u\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Iterable<ULong>.sum(): ULong {\n var sum: ULong = 0uL\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfUByte\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Iterable<UByte>.sum(): UInt {\n var sum: UInt = 0u\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfUShort\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Iterable<UShort>.sum(): UInt {\n var sum: UInt = 0u\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"UComparisonsKt\")\n\npackage kotlin.comparisons\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: UInt, b: UInt): UInt {\n return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: ULong, b: ULong): ULong {\n return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: UByte, b: UByte): UByte {\n return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: UShort, b: UShort): UShort {\n return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun maxOf(a: UInt, b: UInt, c: UInt): UInt {\n return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun maxOf(a: ULong, b: ULong, c: ULong): ULong {\n return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun maxOf(a: UByte, b: UByte, c: UByte): UByte {\n return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun maxOf(a: UShort, b: UShort, c: UShort): UShort {\n return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: UInt, b: UInt): UInt {\n return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: ULong, b: ULong): ULong {\n

return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: UByte, b: UByte): UByte {\n return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: UShort, b: UShort): UShort {\n return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun minOf(a: UInt, b: UInt, c: UInt): UInt {\n return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun minOf(a: ULong, b: ULong, c: ULong): ULong {\n return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun minOf(a: UByte, b: UByte, c: UByte): UByte {\n return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun minOf(a: UShort, b: UShort, c: UShort): UShort {\n return minOf(a, minOf(b, c))\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"URangesKt\")\n\npackage kotlin.ranges\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\n\n/**\n * Returns a random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntRange.random(): UInt {\n return random(Random)\n}\n\n/**\n * Returns a random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongRange.random(): ULong {\n return random(Random)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntRange.random(random: Random): UInt {\n try {\n return random.nextUInt(this)\n } catch(e: IllegalArgumentException) {\n throw NoSuchElementException(e.message)\n }\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongRange.random(random: Random): ULong {\n try {\n return random.nextULong(this)\n } catch(e: IllegalArgumentException) {\n throw NoSuchElementException(e.message)\n }\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntRange.contains(element: UInt?): Boolean {\n return element != null && contains(element)\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongRange.contains(element: ULong?): Boolean {\n return element != null && contains(element)\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun UIntRange.contains(value: UByte): Boolean {\n return contains(value.toUInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun ULongRange.contains(value: UByte): Boolean {\n return contains(value.toULong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun ULongRange.contains(value: UInt): Boolean {\n return contains(value.toULong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun UIntRange.contains(value:

ULong): Boolean {\n   return (value shr UInt.SIZE_BITS) == 0uL && contains(value.toUInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun UIntRange.contains(value: UShort): Boolean {\n   return contains(value.toUInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun ULongRange.contains(value: UShort): Boolean {\n   return contains(value.toULong())\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UByte.downTo(to: UByte): UIntProgression {\n   return UIntProgression.fromClosedRange(this.toUInt(), to.toUInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UInt.downTo(to: UInt): UIntProgression {\n   return UIntProgression.fromClosedRange(this, to, -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun ULong.downTo(to: ULong): ULongProgression {\n   return ULongProgression.fromClosedRange(this, to, -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UShort.downTo(to: UShort): UIntProgression {\n   return UIntProgression.fromClosedRange(this.toUInt(), to.toUInt(), -1)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the same step.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntProgression.reversed(): UIntProgression {\n   return UIntProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the same step.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongProgression.reversed(): ULongProgression {\n   return ULongProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a progression that goes over the same range with the given step.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UIntProgression.step(step: Int): UIntProgression {\n   checkStepIsPositive(step > 0, step)\n   return UIntProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/**\n * Returns a progression that goes over the same range with the given step.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun ULongProgression.step(step: Long): ULongProgression {\n   checkStepIsPositive(step > 0, step)\n   return ULongProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UByte.until(to: UByte): UIntRange {\n   if (to <= UByte.MIN_VALUE) return UIntRange.EMPTY\n   return this.toUInt() .. (to - 1u).toUInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UInt.until(to: UInt): UIntRange {\n   if (to <= UInt.MIN_VALUE) return UIntRange.EMPTY\n   return this .. (to - 1u).toUInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun ULong.until(to: ULong): ULongRange {\n   if (to <= ULong.MIN_VALUE) return ULongRange.EMPTY\n   return this .. (to - 1u).toULong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UShort.until(to:

UShort): UIntRange {\n   if (to <= UShort.MIN_VALUE) return UIntRange.EMPTY\n   return this.toUInt() .. (to - 1u).toUInt()\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UInt.coerceAtLeast(minimumValue: UInt): UInt {\n   return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULong.coerceAtLeast(minimumValue: ULong): ULong {\n   return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByte.coerceAtLeast(minimumValue: UByte): UByte {\n   return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShort.coerceAtLeast(minimumValue: UShort): UShort {\n   return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMostUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UInt.coerceAtMost(maximumValue: UInt): UInt {\n   return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMostUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULong.coerceAtMost(maximumValue: ULong): ULong {\n   return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMostUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByte.coerceAtMost(maximumValue: UByte): UByte {\n   return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMostUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShort.coerceAtMost(maximumValue: UShort): UShort {\n   return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UInt.coerceIn(minimumValue: UInt, maximumValue: UInt): UInt {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n   if (this < minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n   return

this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULong.coerceIn(minimumValue: ULong, maximumValue: ULong): ULong {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n   if (this < minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n   return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByte.coerceIn(minimumValue: UByte, maximumValue: UByte): UByte {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n   if (this < minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n   return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShort.coerceIn(minimumValue: UShort, maximumValue: UShort): UShort {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n   if (this < minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n   return this\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UInt.coerceIn(range: ClosedRange<UInt>): UInt {\n   if (range is ClosedFloatingPointRange) {\n   return this.coerceIn<UInt>(range)\n   }\n   if (range.isEmpty()) throw IllegalArgumentException(\"Cannot coerce value to an empty range: $range.\")\n   return when {\n   this < range.start -> range.start\n   this > range.endInclusive -> range.endInclusive\n   else -> this\n   }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULong.coerceIn(range: ClosedRange<ULong>): ULong {\n   if (range is ClosedFloatingPointRange) {\n   return this.coerceIn<ULong>(range)\n   }\n   if (range.isEmpty()) throw IllegalArgumentException(\"Cannot coerce value to an empty range: $range.\")\n   return when {\n   this < range.start -> range.start\n   this > range.endInclusive -> range.endInclusive\n   else -> this\n   }\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"USequencesKt\")\n\npackage kotlin.sequences\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Sequence<UInt>.sum(): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n   sum += element\n   }\n

return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Sequence<ULong>.sum(): ULong {\n   var sum: ULong = 0uL\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfUByte\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Sequence<UByte>.sum(): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfUShort\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Sequence<UShort>.sum(): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n","/*\r\n * Copyright 2010-2015 JetBrains s.r.o.\r\n *\r\n * Licensed under the Apache License, Version 2.0 (the \"License\");\r\n * you may not use this file except in compliance with the License.\r\n * You may obtain a copy of the License at\r\n *\r\n * http://www.apache.org/licenses/LICENSE-2.0\r\n *\r\n * Unless required by applicable law or agreed to in writing, software\r\n * distributed under the License is distributed on an \"AS IS\" BASIS,\r\n * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\r\n * See the License for the specific language governing permissions and\r\n * limitations under the License.\r\n */\r\n\r\npackage kotlin.annotation\r\n\r\nimport kotlin.annotation.AnnotationTarget.*\r\n\r\n/**\r\n * Contains the list of code elements which are the possible annotation targets\r\n */\r\npublic enum class AnnotationTarget {\r\n   /** Class, interface or object, annotation class is also included */\r\n   CLASS,\r\n   /** Annotation class only */\r\n   ANNOTATION_CLASS,\r\n   /** Generic type parameter (unsupported yet) */\r\n   TYPE_PARAMETER,\r\n   /** Property */\r\n   PROPERTY,\r\n   /** Field, including property's backing field */\r\n   FIELD,\r\n   /** Local variable */\r\n   LOCAL_VARIABLE,\r\n   /** Value parameter of a function or a constructor */\r\n   VALUE_PARAMETER,\r\n   /** Constructor only (primary or secondary) */\r\n   CONSTRUCTOR,\r\n   /** Function (constructors are not included) */\r\n   FUNCTION,\r\n   /** Property getter only */\r\n   PROPERTY_GETTER,\r\n   /** Property setter only */\r\n   PROPERTY_SETTER,\r\n   /** Type usage */\r\n   TYPE,\r\n   /** Any expression */\r\n   EXPRESSION,\r\n   /** File */\r\n   FILE,\r\n   /** Type alias */\r\n   @SinceKotlin(\"1.1\")\r\n   TYPEALIAS\r\n}\r\n\r\n/**\r\n * Contains the list of possible annotation's retentions.\r\n *\r\n * Determines how an annotation is stored in binary output.\r\n */\r\npublic enum class AnnotationRetention {\r\n   /** Annotation isn't stored in binary output */\r\n   SOURCE,\r\n   /** Annotation is stored in binary output, but invisible for reflection */\r\n   BINARY,\r\n   /** Annotation is stored in binary output and visible for reflection (default retention) */\r\n   RUNTIME\r\n}\r\n\r\n/**\r\n * This meta-annotation indicates the kinds of code elements which are possible targets of an annotation.\r\n *\r\n * If the target meta-annotation is not present on an annotation declaration, the annotation is applicable to the following elements:\r\n * [CLASS], [PROPERTY], [FIELD], [LOCAL_VARIABLE], [VALUE_PARAMETER], [CONSTRUCTOR], [FUNCTION], [PROPERTY_GETTER], [PROPERTY_SETTER].\r\n *\r\n * @property allowedTargets list of allowed annotation targets\r\n */\r\n@Target(AnnotationTarget.ANNOTATION_CLASS)\r\n@MustBeDocumented\r\npublic annotation class Target(vararg val allowedTargets: AnnotationTarget)\r\n\r\n/**\r\n * This meta-annotation determines whether an annotation is stored in binary output and visible for reflection. By default, both are true.\r\n *\r\n * @property value necessary annotation retention (RUNTIME, BINARY or SOURCE)\r\n */\r\n@Target(AnnotationTarget.ANNOTATION_CLASS)\r\npublic annotation class Retention(val value: AnnotationRetention = AnnotationRetention.RUNTIME)\r\n\r\n/**\r\n * This meta-annotation determines that an annotation is applicable twice or more on a single code element\r\n */\r\n@Target(AnnotationTarget.ANNOTATION_CLASS)\r\npublic annotation class Repeatable\r\n\r\n/**\r\n * This meta-annotation determines that an annotation is a part of public API and therefore should be included in the generated\r\n * documentation for the element to which the annotation is applied.\r\n */\r\n@Target(AnnotationTarget.ANNOTATION_CLASS)\r\npublic annotation class MustBeDocumented\r\n","/*\r\n * Copyright 2010-2015 JetBrains s.r.o.\r\n *\r\n * Licensed under the Apache License, Version 2.0 (the \"License\");\r\n * you may not use this file except in compliance with the License.\r\n *

You may obtain a copy of the License at\r\n *\r\n * http://www.apache.org/licenses/LICENSE-2.0\r\n *\r\n * Unless required by applicable law or agreed to in writing, software\r\n * distributed under the License is distributed on an \"AS IS\" BASIS,\r\n * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\r\n * See the License for the specific language governing permissions and\r\n * limitations under the License.\r\n */\r\n\r\npackage kotlin.collections\r\n\r\nimport kotlin.internal.PlatformDependent\r\n\r\n/**\r\n * Classes that inherit from this interface can be represented as a sequence of elements that can\r\n * be iterated over.\r\n * @param T the type of element being iterated over. The iterator is covariant on its element type.\r\n */\r\npublic interface Iterable<out T> {\r\n   /**\r\n   * Returns an iterator over the elements of this object.\r\n   */\r\n   public operator fun iterator(): Iterator<T>\r\n}\r\n\r\n/**\r\n * Classes that inherit from this interface can be represented as a sequence of elements that can\r\n * be iterated over and that supports removing elements during iteration.\r\n * @param T the type of element being iterated over. The mutable iterator is invariant on its element type.\r\n */\r\npublic interface MutableIterable<out T> : Iterable<T> {\r\n   /**\r\n   * Returns an iterator over the elements of this sequence that supports removing elements during iteration.\r\n   */\r\n   override fun iterator(): MutableIterator<T>\r\n}\r\n\r\n/**\r\n * A generic collection of elements. Methods in this interface support only read-only access to the collection;\r\n * read/write access is supported through the [MutableCollection] interface.\r\n * @param E the type of elements contained in the collection. The collection is covariant on its element type.\r\n */\r\npublic interface Collection<out E> : Iterable<E> {\r\n   // Query Operations\r\n   /**\r\n   * Returns the size of the collection.\r\n   */\r\n   public val size: Int\r\n\r\n   /**\r\n   * Returns `true` if the collection is empty (contains no elements), `false` otherwise.\r\n   */\r\n   public fun isEmpty(): Boolean\r\n\r\n   /**\r\n   * Checks if the specified element is contained in this collection.\r\n   */\r\n   public operator fun contains(element: @UnsafeVariance E): Boolean\r\n\r\n   override fun iterator(): Iterator<E>\r\n\r\n   // Bulk Operations\r\n   /**\r\n   * Checks if all elements in the specified collection are contained in this collection.\r\n   */\r\n   public fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean\r\n}\r\n\r\n/**\r\n * A generic collection of elements that supports adding and removing elements.\r\n *\r\n * @param E the type of elements contained in the collection. The mutable collection is invariant on its element type.\r\n */\r\npublic interface MutableCollection<E> : Collection<E>, MutableIterable<E> {\r\n   // Query Operations\r\n   override fun iterator(): MutableIterator<E>\r\n\r\n   // Modification Operations\r\n   /**\r\n   * Adds the specified element to the collection.\r\n   *\r\n   * @return `true` if the element has been added, `false` if the collection does not support duplicates\r\n   * and the element is already contained in the collection.\r\n   */\r\n   public fun add(element: E): Boolean\r\n\r\n   /**\r\n   * Removes a single instance of the specified element from this\r\n   * collection, if it is present.\r\n   *\r\n   * @return `true` if the element has been successfully removed; `false` if it was not present in the collection.\r\n   */\r\n   public fun remove(element: E): Boolean\r\n\r\n   // Bulk Modification Operations\r\n   /**\r\n   * Adds all of the elements of the specified collection to this collection.\r\n   *\r\n   * @return `true` if any of the specified elements was added to the collection, `false` if the collection was not modified.\r\n   */\r\n   public fun addAll(elements: Collection<E>): Boolean\r\n\r\n   /**\r\n   * Removes all of this collection's elements that are also contained in the specified collection.\r\n   *\r\n   * @return `true` if any of the specified elements was removed from the collection, `false` if the collection was not modified.\r\n   */\r\n   public fun removeAll(elements: Collection<E>): Boolean\r\n\r\n   /**\r\n   * Retains only the elements in this collection that are contained in the specified collection.\r\n   *\r\n   * @return `true` if any element was removed from the collection, `false` if the collection was not modified.\r\n   */\r\n   public fun retainAll(elements: Collection<E>): Boolean\r\n\r\n   /**\r\n   * Removes all elements from this collection.\r\n   */\r\n   public fun clear(): Unit\r\n}\r\n\r\n/**\r\n * A generic ordered collection of elements. Methods in this interface support only read-only access to the list;\r\n * read/write access is supported through the [MutableList] interface.\r\n * @param E the type of elements contained in the list. The list is covariant on its element type.\r\n */\r\npublic interface List<out E> : Collection<E> {\r\n   // Query Operations\r\n\r\n   override val size: Int\r\n   override fun isEmpty(): Boolean\r\n   override fun contains(element: @UnsafeVariance E): Boolean\r\n   override fun iterator(): Iterator<E>\r\n\r\n   // Bulk Operations\r\n   override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean\r\n\r\n   // Positional Access Operations\r\n   /**\r\n   * Returns the element at the specified index in the list.\r\n   */\r\n

public operator fun get(index: Int): E\r\n\r\n   // Search Operations\r\n   /**\r\n   * Returns the index of the first occurrence of the specified element in the list, or -1 if the specified\r\n   * element is not contained in the list.\r\n   */\r\n   public fun indexOf(element: @UnsafeVariance E): Int\r\n\r\n   /**\r\n   * Returns the index of the last occurrence of the specified element in the list, or -1 if the specified\r\n   * element is not contained in the list.\r\n   */\r\n   public fun lastIndexOf(element: @UnsafeVariance E): Int\r\n\r\n   // List Iterators\r\n   /**\r\n   * Returns a list iterator over the elements in this list (in proper sequence).\r\n   */\r\n   public fun listIterator(): ListIterator<E>\r\n\r\n   /**\r\n   * Returns a list iterator over the elements in this list (in proper sequence), starting at the specified [index].\r\n   */\r\n   public fun listIterator(index: Int): ListIterator<E>\r\n\r\n   // View\r\n   /**\r\n   * Returns a view of the portion of this list between the specified [fromIndex] (inclusive) and [toIndex] (exclusive).\r\n   * The returned list is backed by this list, so non-structural changes in the returned list are reflected in this list, and vice-versa.\r\n   *\r\n   * Structural changes in the base list make the behavior of the view undefined.\r\n   */\r\n   public fun subList(fromIndex: Int, toIndex: Int): List<E>\r\n}\r\n\r\n/**\r\n * A generic ordered collection of elements that supports adding and removing elements.\r\n * @param E the type of elements contained in the list. The mutable list is invariant on its element type.\r\n */\r\npublic interface MutableList<E> : List<E>, MutableCollection<E> {\r\n   // Modification Operations\r\n   /**\r\n   * Adds the specified element to the end of this list.\r\n   *\r\n   * @return `true` because the list is always modified as the result of this operation.\r\n   */\r\n   override fun add(element: E): Boolean\r\n\r\n   override fun remove(element: E): Boolean\r\n\r\n   // Bulk Modification Operations\r\n   /**\r\n   * Adds all of the elements of the specified collection to the end of this list.\r\n   *\r\n   * The elements are appended in the order they appear in the [elements] collection.\r\n   *\r\n   * @return `true` if the list was changed as the result of the operation.\r\n   */\r\n   override fun addAll(elements: Collection<E>): Boolean\r\n\r\n   /**\r\n   * Inserts all of the elements of the specified collection [elements] into this list at the specified [index].\r\n   *\r\n   * @return `true` if the list was changed as the result of the operation.\r\n   */\r\n   public fun addAll(index: Int, elements: Collection<E>): Boolean\r\n\r\n   override fun removeAll(elements: Collection<E>): Boolean\r\n   override fun retainAll(elements: Collection<E>): Boolean\r\n   override fun clear(): Unit\r\n\r\n   // Positional Access Operations\r\n   /**\r\n   * Replaces the element at the specified position in this list with the specified element.\r\n   *\r\n   * @return the element previously at the specified position.\r\n   */\r\n   public operator fun set(index: Int, element: E): E\r\n\r\n   /**\r\n   * Inserts an element into the list at the specified [index].\r\n   */\r\n   public fun add(index: Int, element: E): Unit\r\n\r\n   /**\r\n   * Removes an element at the specified [index] from the list.\r\n   *\r\n   * @return the element that has been removed.\r\n   */\r\n   public fun removeAt(index: Int): E\r\n\r\n   // List Iterators\r\n   override fun listIterator(): MutableListIterator<E>\r\n\r\n   override fun listIterator(index: Int): MutableListIterator<E>\r\n\r\n   // View\r\n   override fun subList(fromIndex: Int, toIndex: Int): MutableList<E>\r\n}\r\n\r\n/**\r\n * A generic unordered collection of elements that does not support duplicate elements.\r\n * Methods in this interface support only read-only access to the set;\r\n * read/write access is supported through the [MutableSet] interface.\r\n * @param E the type of elements contained in the set. The set is covariant on its element type.\r\n */\r\npublic interface Set<out E> : Collection<E> {\r\n   // Query Operations\r\n\r\n   override val size: Int\r\n   override fun isEmpty(): Boolean\r\n   override fun contains(element: @UnsafeVariance E): Boolean\r\n   override fun iterator(): Iterator<E>\r\n\r\n   // Bulk Operations\r\n   override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean\r\n}\r\n\r\n/**\r\n * A generic unordered collection of elements that does not support duplicate elements, and supports\r\n * adding and removing elements.\r\n * @param E the type of elements contained in the set. The mutable set is invariant on its element type.\r\n */\r\npublic interface MutableSet<E> : Set<E>, MutableCollection<E> {\r\n   // Query Operations\r\n   override fun iterator(): MutableIterator<E>\r\n\r\n   // Modification Operations\r\n\r\n   /**\r\n   * Adds the specified element to the set.\r\n   *\r\n   * @return `true` if the element has been added, `false` if the element is already contained in the set.\r\n   */\r\n   override fun add(element: E): Boolean\r\n\r\n   override fun remove(element: E): Boolean\r\n\r\n   // Bulk Modification Operations\r\n\r\n   override fun addAll(elements: Collection<E>): Boolean\r\n   override fun removeAll(elements: Collection<E>): Boolean\r\n   override fun retainAll(elements: Collection<E>): Boolean\r\n   override fun clear(): Unit\r\n}\r\n\r\n/**\r\n * A collection that

holds pairs of objects (keys and values) and supports efficiently retrieving\r\n * the value corresponding to each key. Map keys are unique; the map holds only one value for each key.\r\n * Methods in this interface support only read-only access to the map; read-write access is supported through\r\n * the [MutableMap] interface.\r\n * @param K the type of map keys. The map is invariant on its key type, as it\r\n * can accept key as a parameter (of [containsKey] for example) and return it in [keys] set.\r\n * @param V the type of map values. The map is covariant on its value type.\r\n */\r\npublic interface Map<K, out V> {\r\n // Query Operations\r\n /**\r\n * Returns the number of key/value pairs in the map.\r\n */\r\n public val size: Int\r\n\r\n /**\r\n * Returns `true` if the map is empty (contains no elements), `false` otherwise.\r\n */\r\n public fun isEmpty(): Boolean\r\n\r\n /**\r\n * Returns `true` if the map contains the specified [key].\r\n */\r\n public fun containsKey(key: K): Boolean\r\n\r\n /**\r\n * Returns `true` if the map maps one or more keys to the specified [value].\r\n */\r\n public fun containsValue(value: @UnsafeVariance V): Boolean\r\n\r\n /**\r\n * Returns the value corresponding to the given [key], or `null` if such a key is not present in the map.\r\n */\r\n public operator fun get(key: K): V?\r\n\r\n /**\r\n * Returns the value corresponding to the given [key], or [defaultValue] if such a key is not present in the map.\r\n *\r\n * @since JDK 1.8\r\n */\r\n @SinceKotlin(\"1.1\")\r\n @PlatformDependent\r\n public fun getOrDefault(key: K, defaultValue: @UnsafeVariance V): V {\r\n // See default implementation in JDK sources\r\n return null as V\r\n }\r\n\r\n // Views\r\n /**\r\n * Returns a read-only [Set] of all keys in this map.\r\n */\r\n public val keys: Set<K>\r\n\r\n /**\r\n * Returns a read-only [Collection] of all values in this map. Note that this collection may contain duplicate values.\r\n */\r\n public val values: Collection<V>\r\n\r\n /**\r\n * Returns a read-only [Set] of all key/value pairs in this map.\r\n */\r\n public val entries: Set<Map.Entry<K, V>>\r\n\r\n /**\r\n * Represents a key/value pair held by a [Map].\r\n */\r\n public interface Entry<out K, out V> {\r\n /**\r\n * Returns the key of this key/value pair.\r\n */\r\n public val key: K\r\n\r\n /**\r\n * Returns the value of this key/value pair.\r\n */\r\n public val value: V\r\n }\r\n}\r\n\r\n/**\r\n * A modifiable collection that holds pairs of objects (keys and values) and supports efficiently retrieving\r\n * the value corresponding to each key. Map keys are unique; the map holds only one value for each key.\r\n * @param K the type of map keys. The map is invariant on its key type.\r\n * @param V the type of map values. The mutable map is invariant on its value type.\r\n */\r\npublic interface MutableMap<K, V> : Map<K, V> {\r\n // Modification Operations\r\n /**\r\n * Associates the specified [value] with the specified [key] in the map.\r\n *\r\n * @return the previous value associated with the key, or `null` if the key was not present in the map.\r\n */\r\n public fun put(key: K, value: V): V?\r\n\r\n /**\r\n * Removes the specified key and its corresponding value from this map.\r\n *\r\n * @return the previous value associated with the key, or `null` if the key was not present in the map.\r\n */\r\n public fun remove(key: K): V?\r\n\r\n /**\r\n * Removes the entry for the specified key only if it is mapped to the specified value.\r\n *\r\n * @return true if entry was removed\r\n */\r\n @SinceKotlin(\"1.1\")\r\n @PlatformDependent\r\n public fun remove(key: K, value: V): Boolean {\r\n // See default implementation in JDK sources\r\n return true\r\n }\r\n\r\n // Bulk Modification Operations\r\n /**\r\n * Updates this map with key/value pairs from the specified map [from].\r\n */\r\n public fun putAll(from: Map<out K, V>): Unit\r\n\r\n /**\r\n * Removes all elements from this map.\r\n */\r\n public fun clear(): Unit\r\n\r\n // Views\r\n /**\r\n * Returns a [MutableSet] of all keys in this map.\r\n */\r\n override val keys: MutableSet<K>\r\n\r\n /**\r\n * Returns a [MutableCollection] of all values in this map. Note that this collection may contain duplicate values.\r\n */\r\n override val values: MutableCollection<V>\r\n\r\n /**\r\n * Returns a [MutableSet] of all key/value pairs in this map.\r\n */\r\n override val entries: MutableSet<MutableMap.MutableEntry<K, V>>\r\n\r\n /**\r\n * Represents a key/value pair held by a [MutableMap].\r\n */\r\n public interface MutableEntry<K, V> : Map.Entry<K, V> {\r\n /**\r\n * Changes the value associated with the key of this entry.\r\n *\r\n * @return the previous value corresponding to the key.\r\n */\r\n public fun setValue(newValue: V): V\r\n }\r\n}\r\n","/*\r\n * Copyright 2010-2016 JetBrains s.r.o.\r\n *\r\n * Licensed under the Apache License, Version 2.0 (the \"License\");\r\n * you may not use this file except in compliance with the License.\r\n * You may obtain a copy of the License at\r\n *\r\n * http://www.apache.org/licenses/LICENSE-2.0\r\n *\r\n * Unless required by applicable law or agreed to in writing, software\r\n * distributed under the License is distributed on an \"AS IS\"

BASIS,\r\n * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\r\n * See the License for the specific language governing permissions and\r\n * limitations under the License.\r\n */\r\n\r\npackage kotlin.internal\r\n\r\n/**\r\n * Specifies that the corresponding type parameter is not used for unsafe operations such as casts or 'is' checks\r\n * That means it's completely safe to use generic types as argument for such parameter.\r\n */\r\n@Target(AnnotationTarget.TYPE_PARAMETER)\r\n@Retention(AnnotationRetention.BINARY)\r\ninternal annotation class PureReifiable\r\n\r\n/**\r\n * Specifies that the corresponding built-in method exists depending on platform.\r\n * Current implementation for JVM looks whether method with same JVM descriptor exists in the module JDK.\r\n * For example MutableMap.remove(K, V) available only if corresponding\r\n * method 'java/util/Map.remove(Ljava/lang/Object;Ljava/lang/Object;)Z' is defined in JDK (i.e. for major versions >= 8)\r\n */\r\n@Target(AnnotationTarget.FUNCTION)\r\n@Retention(AnnotationRetention.BINARY)\r\ninternal annotation class PlatformDependent\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.internal\r\n\r\n// a mod b (in arithmetical sense)\r\nprivate fun mod(a: Int, b: Int): Int {\r\n   val mod = a % b\r\n   return if (mod >= 0) mod else mod + b\r\n}\r\n\r\nprivate fun mod(a: Long, b: Long): Long {\r\n   val mod = a % b\r\n   return if (mod >= 0) mod else mod + b\r\n}\r\n\r\n// (a - b) mod c\r\nprivate fun differenceModulo(a: Int, b: Int, c: Int): Int {\r\n   return mod(mod(a, c) - mod(b, c), c)\r\n}\r\n\r\nprivate fun differenceModulo(a: Long, b: Long, c: Long): Long {\r\n   return mod(mod(a, c) - mod(b, c), c)\r\n}\r\n\r\n/**\r\n * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range\r\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\r\n * [step].\r\n *\r\n * No validation on passed parameters is performed. The given parameters should satisfy the condition:\r\n *\r\n * - either `step > 0` and `start <= end`,\r\n * - or `step < 0` and `start >= end`.\r\n *\r\n * @param start first element of the progression\r\n * @param end ending bound for the progression\r\n * @param step increment, or difference of successive elements in the progression\r\n * @return the final element of the progression\r\n * @suppress\r\n */\r\n@PublishedApi\r\ninternal fun getProgressionLastElement(start: Int, end: Int, step: Int): Int = when {\r\n   step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step)\r\n   step < 0 -> if (start <= end) end else end + differenceModulo(start, end, -step)\r\n   else -> throw kotlin.IllegalArgumentException(\"Step is zero.\")\r\n}\r\n\r\n/**\r\n * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range\r\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\r\n * [step].\r\n *\r\n * No validation on passed parameters is performed. The given parameters should satisfy the condition:\r\n *\r\n * - either `step > 0` and `start <= end`,\r\n * - or `step < 0` and `start >= end`.\r\n *\r\n * @param start first element of the progression\r\n * @param end ending bound for the progression\r\n * @param step increment, or difference of successive elements in the progression\r\n * @return the final element of the progression\r\n * @suppress\r\n */\r\n@PublishedApi\r\ninternal fun getProgressionLastElement(start: Long, end: Long, step: Long): Long = when {\r\n   step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step)\r\n   step < 0 -> if (start <= end) end else end + differenceModulo(start, end, -step)\r\n   else -> throw kotlin.IllegalArgumentException(\"Step is zero.\")\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// Auto-generated file. DO NOT EDIT!\r\n\r\npackage kotlin.collections\r\n\r\n/** An iterator over a sequence of values of type `Byte`. */\r\npublic abstract class ByteIterator : Iterator<Byte> {\r\n   override final fun next() = nextByte()\r\n\r\n   /** Returns the next value in the sequence without boxing. */\r\n   public abstract fun nextByte(): Byte\r\n}\r\n\r\n/** An iterator over a sequence of values of type `Char`. */\r\npublic abstract class CharIterator : Iterator<Char> {\r\n   override final fun next() = nextChar()\r\n\r\n   /** Returns the next value in the sequence without boxing. */\r\n   public abstract fun nextChar(): Char\r\n}\r\n\r\n/** An iterator over a sequence of values of type `Short`. */\r\npublic abstract class ShortIterator : Iterator<Short> {\r\n   override final fun next() = nextShort()\r\n\r\n   /** Returns the next value in the sequence without boxing. */\r\n   public abstract fun nextShort(): Short\r\n}\r\n\r\n/** An iterator over a sequence of values of type `Int`. */\r\npublic abstract class

IntIterator : Iterator<Int> {\r\n override final fun next() = nextInt()\r\n\r\n /** Returns the next value in the sequence without boxing. */\r\n public abstract fun nextInt(): Int\r\n}\r\n\r\n/** An iterator over a sequence of values of type `Long`. */\r\npublic abstract class LongIterator : Iterator<Long> {\r\n override final fun next() = nextLong()\r\n\r\n /** Returns the next value in the sequence without boxing. */\r\n public abstract fun nextLong(): Long\r\n}\r\n\r\n/** An iterator over a sequence of values of type `Float`. */\r\npublic abstract class FloatIterator : Iterator<Float> {\r\n override final fun next() = nextFloat()\r\n\r\n /** Returns the next value in the sequence without boxing. */\r\n public abstract fun nextFloat(): Float\r\n}\r\n\r\n/** An iterator over a sequence of values of type `Double`. */\r\npublic abstract class DoubleIterator : Iterator<Double> {\r\n override final fun next() = nextDouble()\r\n\r\n /** Returns the next value in the sequence without boxing. */\r\n public abstract fun nextDouble(): Double\r\n}\r\n\r\n/** An iterator over a sequence of values of type `Boolean`. */\r\npublic abstract class BooleanIterator : Iterator<Boolean> {\r\n override final fun next() = nextBoolean()\r\n\r\n /** Returns the next value in the sequence without boxing. */\r\n public abstract fun nextBoolean(): Boolean\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// Auto-generated file. DO NOT EDIT!\r\n\r\npackage kotlin.ranges\r\n\r\n/**\r\n * An iterator over a progression of values of type `Char`.\r\n * @property step the number by which the value is incremented on each step.\r\n */\r\ninternal class CharProgressionIterator(first: Char, last: Char, val step: Int) : CharIterator() {\r\n private val finalElement = last.toInt()\r\n private var hasNext: Boolean = if (step > 0) first <= last else first >= last\r\n private var next = if (hasNext) first.toInt() else finalElement\r\n\r\n override fun hasNext(): Boolean = hasNext\r\n\r\n override fun nextChar(): Char {\r\n val value = next\r\n if (value == finalElement) {\r\n if (!hasNext) throw kotlin.NoSuchElementException()\r\n hasNext = false\r\n }\r\n else {\r\n next += step\r\n }\r\n return value.toChar()\r\n }\r\n}\r\n\r\n/**\r\n * An iterator over a progression of values of type `Int`.\r\n * @property step the number by which the value is incremented on each step.\r\n */\r\ninternal class IntProgressionIterator(first: Int, last: Int, val step: Int) : IntIterator() {\r\n private val finalElement = last\r\n private var hasNext: Boolean = if (step > 0) first <= last else first >= last\r\n private var next = if (hasNext) first else finalElement\r\n\r\n override fun hasNext(): Boolean = hasNext\r\n\r\n override fun nextInt(): Int {\r\n val value = next\r\n if (value == finalElement) {\r\n if (!hasNext) throw kotlin.NoSuchElementException()\r\n hasNext = false\r\n }\r\n else {\r\n next += step\r\n }\r\n return value\r\n }\r\n}\r\n\r\n/**\r\n * An iterator over a progression of values of type `Long`.\r\n * @property step the number by which the value is incremented on each step.\r\n */\r\ninternal class LongProgressionIterator(first: Long, last: Long, val step: Long) : LongIterator() {\r\n private val finalElement = last\r\n private var hasNext: Boolean = if (step > 0) first <= last else first >= last\r\n private var next = if (hasNext) first else finalElement\r\n\r\n override fun hasNext(): Boolean = hasNext\r\n\r\n override fun nextLong(): Long {\r\n val value = next\r\n if (value == finalElement) {\r\n if (!hasNext) throw kotlin.NoSuchElementException()\r\n hasNext = false\r\n }\r\n else {\r\n next += step\r\n }\r\n return value\r\n }\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// Auto-generated file. DO NOT EDIT!\r\n\r\npackage kotlin.ranges\r\n\r\nimport kotlin.internal.getProgressionLastElement\r\n\r\n/**\r\n * A progression of values of type `Char`.\r\n */\r\npublic open class CharProgression\r\n internal constructor\r\n (\r\n start: Char,\r\n endInclusive: Char,\r\n step: Int\r\n) : Iterable<Char> {\r\n init {\r\n if (step == 0) throw kotlin.IllegalArgumentException(\"Step must be non-zero.\")\r\n if (step == Int.MIN_VALUE) throw kotlin.IllegalArgumentException(\"Step must be greater than Int.MIN_VALUE to avoid overflow on negation.\")\r\n }\r\n\r\n /**\r\n * The first element in the progression.\r\n */\r\n public val first: Char = start\r\n\r\n /**\r\n * The last element in the progression.\r\n */\r\n public val last: Char = getProgressionLastElement(start.toInt(), endInclusive.toInt(), step).toChar()\r\n\r\n /**\r\n * The step of the progression.\r\n */\r\n public val step: Int = step\r\n\r\n override fun iterator(): CharIterator =

CharProgressionIterator(first, last, step)\r\n\r\n   /** Checks if the progression is empty. */\r\n   public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\r\n\r\n   override fun equals(other: Any?): Boolean =\r\n   other is CharProgression && (isEmpty() && other.isEmpty() ||\r\n   first == other.first && last == other.last && step == other.step)\r\n\r\n   override fun hashCode(): Int =\r\n   if (isEmpty()) -1 else (31 * (31 * first.toInt() + last.toInt()) + step)\r\n\r\n   override fun toString(): String = if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step ${-step}\"\r\n\r\n   companion object {\r\n   /**\r\n   * Creates CharProgression within the specified bounds of a closed range.\r\n\r\n   * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\r\n   * In order to go backwards the [step] must be negative.\r\n   *\r\n   * [step] must be greater than `Int.MIN_VALUE` and not equal to zero.\r\n   */\r\n   public fun fromClosedRange(rangeStart: Char, rangeEnd: Char, step: Int): CharProgression = CharProgression(rangeStart, rangeEnd, step)\r\n   }\r\n}\r\n\r\n/**\r\n * A progression of values of type `Int`.\r\n */\r\npublic open class IntProgression\r\n   internal constructor\r\n   (\r\n   start: Int,\r\n   endInclusive: Int,\r\n   step: Int\r\n   ) : Iterable<Int> {\r\n   init {\r\n   if (step == 0) throw kotlin.IllegalArgumentException(\"Step must be non-zero.\")\r\n   if (step == Int.MIN_VALUE) throw kotlin.IllegalArgumentException(\"Step must be greater than Int.MIN_VALUE to avoid overflow on negation.\")\r\n   }\r\n\r\n   /**\r\n   * The first element in the progression.\r\n   */\r\n   public val first: Int = start\r\n\r\n   /**\r\n   * The last element in the progression.\r\n   */\r\n   public val last: Int = getProgressionLastElement(start.toInt(), endInclusive.toInt(), step).toInt()\r\n\r\n   /**\r\n   * The step of the progression.\r\n   */\r\n   public val step: Int = step\r\n\r\n   override fun iterator(): IntIterator = IntProgressionIterator(first, last, step)\r\n\r\n   /** Checks if the progression is empty. */\r\n   public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\r\n\r\n   override fun equals(other: Any?): Boolean =\r\n   other is IntProgression && (isEmpty() && other.isEmpty() ||\r\n   first == other.first && last == other.last && step == other.step)\r\n\r\n   override fun hashCode(): Int =\r\n   if (isEmpty()) -1 else (31 * (31 * first + last) + step)\r\n\r\n   override fun toString(): String = if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step ${-step}\"\r\n\r\n   companion object {\r\n   /**\r\n   * Creates IntProgression within the specified bounds of a closed range.\r\n\r\n   * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\r\n   * In order to go backwards the [step] must be negative.\r\n   *\r\n   * [step] must be greater than `Int.MIN_VALUE` and not equal to zero.\r\n   */\r\n   public fun fromClosedRange(rangeStart: Int, rangeEnd: Int, step: Int): IntProgression = IntProgression(rangeStart, rangeEnd, step)\r\n   }\r\n}\r\n\r\n/**\r\n * A progression of values of type `Long`.\r\n */\r\npublic open class LongProgression\r\n   internal constructor\r\n   (\r\n   start: Long,\r\n   endInclusive: Long,\r\n   step: Long\r\n   ) : Iterable<Long> {\r\n   init {\r\n   if (step == 0L) throw kotlin.IllegalArgumentException(\"Step must be non-zero.\")\r\n   if (step == Long.MIN_VALUE) throw kotlin.IllegalArgumentException(\"Step must be greater than Long.MIN_VALUE to avoid overflow on negation.\")\r\n   }\r\n\r\n   /**\r\n   * The first element in the progression.\r\n   */\r\n   public val first: Long = start\r\n\r\n   /**\r\n   * The last element in the progression.\r\n   */\r\n   public val last: Long = getProgressionLastElement(start.toLong(), endInclusive.toLong(), step).toLong()\r\n\r\n   /**\r\n   * The step of the progression.\r\n   */\r\n   public val step: Long = step\r\n\r\n   override fun iterator(): LongIterator = LongProgressionIterator(first, last, step)\r\n\r\n   /** Checks if the progression is empty. */\r\n   public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\r\n\r\n   override fun equals(other: Any?): Boolean =\r\n   other is LongProgression && (isEmpty() && other.isEmpty() ||\r\n   first == other.first && last == other.last && step == other.step)\r\n\r\n   override fun hashCode(): Int =\r\n   if (isEmpty()) -1 else (31 * (31 * (first xor (first ushr 32)) + (last xor (last ushr 32))) + (step xor (step ushr 32))).toInt()\r\n\r\n   override fun toString(): String = if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step ${-step}\"\r\n\r\n   companion object {\r\n   /**\r\n   * Creates LongProgression within the specified bounds of a closed range.\r\n\r\n   * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\r\n   * In order to go backwards the [step] must be negative.\r\n   *\r\n   * [step] must be greater than `Long.MIN_VALUE` and not equal to zero.\r\n   */\r\n   public fun

fromClosedRange(rangeStart: Long, rangeEnd: Long, step: Long): LongProgression = LongProgression(rangeStart, rangeEnd, step)\r\n }\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.ranges\r\n\r\n/**\r\n * Represents a range of values (for example, numbers or characters).\r\n * See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/ranges.html) for more information.\r\n */\r\npublic interface ClosedRange<T: Comparable<T>> {\r\n /**\r\n * The minimum value in the range.\r\n */\r\n public val start: T\r\n\r\n /**\r\n * The maximum value in the range (inclusive).\r\n */\r\n public val endInclusive: T\r\n\r\n /**\r\n * Checks whether the specified [value] belongs to the range.\r\n */\r\n public operator fun contains(value: T): Boolean = value >= start && value <= endInclusive\r\n\r\n /**\r\n * Checks whether the range is empty.\r\n */\r\n public fun isEmpty(): Boolean = start > endInclusive\r\n}\r\n","/*\r\n * Copyright 2010-2015 JetBrains s.r.o.\r\n *\r\n * Licensed under the Apache License, Version 2.0 (the \"License\");\r\n * you may not use this file except in compliance with the License.\r\n * You may obtain a copy of the License at\r\n *\r\n * http://www.apache.org/licenses/LICENSE-2.0\r\n *\r\n * Unless required by applicable law or agreed to in writing, software\r\n * distributed under the License is distributed on an \"AS IS\" BASIS,\r\n * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\r\n * See the License for the specific language governing permissions and\r\n * limitations under the License.\r\n */\r\n\r\npackage kotlin.reflect\r\n\r\n/**\r\n * Represents a parameter passed to a function or a property getter/setter,\r\n * including `this` and extension receiver parameters.\r\n */\r\npublic interface KParameter : KAnnotatedElement {\r\n /**\r\n * 0-based index of this parameter in the parameter list of its containing callable.\r\n */\r\n public val index: Int\r\n\r\n /**\r\n * Name of this parameter as it was declared in the source code,\r\n * or `null` if the parameter has no name or its name is not available at runtime.\r\n * Examples of nameless parameters include `this` instance for member functions,\r\n * extension receiver for extension functions or properties, parameters of Java methods\r\n * compiled without the debug information, and others.\r\n */\r\n public val name: String?\r\n\r\n /**\r\n * Type of this parameter. For a `vararg` parameter, this is the type of the corresponding array,\r\n * not the individual element.\r\n */\r\n public val type: KType\r\n\r\n /**\r\n * Kind of this parameter.\r\n */\r\n public val kind: Kind\r\n\r\n /**\r\n * Kind represents a particular position of the parameter declaration in the source code,\r\n * such as an instance, an extension receiver parameter or a value parameter.\r\n */\r\n public enum class Kind {\r\n /** Instance required to make a call to the member, or an outer class instance for an inner class constructor. */\r\n INSTANCE,\r\n\r\n /** Extension receiver of an extension function or property. */\r\n EXTENSION_RECEIVER,\r\n\r\n /** Ordinary named value parameter. */\r\n VALUE,\r\n }\r\n\r\n /**\r\n * `true` if this parameter is optional and can be omitted when making a call via [KCallable.callBy], or `false` otherwise.\r\n *\r\n * A parameter is optional in any of the two cases:\r\n * 1. The default value is provided at the declaration of this parameter.\r\n * 2. The parameter is declared in a member function and one of the corresponding parameters in the super functions is optional.\r\n */\r\n public val isOptional: Boolean\r\n\r\n /**\r\n * `true` if this parameter is `vararg`.\r\n * See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/functions.html#variable-number-of-arguments-varargs)\r\n * for more information.\r\n */\r\n @SinceKotlin(\"1.1\")\r\n public val isVararg: Boolean\r\n}\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.reflect\r\n\r\n/**\r\n * Represents a type. Type is usually either a class with optional type arguments,\r\n * or a type parameter of some declaration, plus nullability.\r\n */\r\npublic interface KType : KAnnotatedElement {\r\n /**\r\n * The declaration of the classifier used in this type.\r\n * For example, in the type `List<String>` the classifier would be the [KClass] instance for [List].\r\n *\r\n * Returns `null` if this type is not denotable in Kotlin, for example if it is an intersection type.\r\n */\r\n @SinceKotlin(\"1.1\")\r\n public val classifier: KClassifier?\r\n\r\n /**\r\n * Type arguments passed for the parameters of the classifier in this type.\r\n * For example, in the type `Array<out Number>` the only type argument is `out Number`.\r\n *\r\n * In case this type is based on an inner class, the returned list contains the

type arguments provided for the innermost class first,\r\n * then its outer class, and so on.\r\n * For example, in the type `Outer<A, B>.Inner<C, D>` the returned list is `[C, D, A, B]`.\r\n */\r\n @SinceKotlin(\"1.1\")\r\n public val arguments: List<KTypeProjection>\r\n\r\n /**\r\n * `true` if this type was marked nullable in the source code.\r\n *\r\n * For Kotlin types, it means that `null` value is allowed to be represented by this type.\r\n * In practice it means that the type was declared with a question mark at the end.\r\n * For non-Kotlin types, it means the type or the symbol which was declared with this type\r\n * is annotated with a runtime-retained nullability annotation such as [javax.annotation.Nullable].\r\n *\r\n * Note that even if [isMarkedNullable] is false, values of the type can still be `null`.\r\n * This may happen if it is a type of the type parameter with a nullable upper bound:\r\n *\r\n * ```\r\n * fun <T> foo(t: T) {\r\n * // isMarkedNullable == false for t's type, but t can be null here when T = \"Any?\"\r\n * }\r\n * ```\r\n */\r\n public val isMarkedNullable: Boolean\r\n}\r\n\r\n/**\r\n * Represents a type projection. Type projection is usually the argument to another type in a type usage.\r\n * For example, in the type `Array<out Number>`, `out Number` is the covariant projection of the type represented by the class `Number`.\r\n *\r\n * Type projection is either the star projection, or an entity consisting of a specific type plus optional variance.\r\n *\r\n * See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/generics.html#type-projections)\r\n * for more information.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic data class KTypeProjection constructor(\r\n /**\r\n * The use-site variance specified in the projection, or `null` if this is a star projection.\r\n */\r\n public val variance: KVariance?,\r\n /**\r\n * The type specified in the projection, or `null` if this is a star projection.\r\n */\r\n public val type: KType?\r\n) {\r\n public companion object {\r\n /**\r\n * Star projection, denoted by the `*` character.\r\n * For example, in the type `KClass<*>`, `*` is the star projection.\r\n * See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/generics.html#star-projections)\r\n * for more information.\r\n */\r\n public val STAR: KTypeProjection = KTypeProjection(null, null)\r\n\r\n /**\r\n * Creates an invariant projection of a given type. Invariant projection is just the type itself,\r\n * without any use-site variance modifiers applied to it.\r\n * For example, in the type `Set<String>`, `String` is an invariant projection of the type represented by the class `String`.\r\n */\r\n public fun invariant(type: KType): KTypeProjection =\r\n KTypeProjection(KVariance.INVARIANT, type)\r\n\r\n /**\r\n * Creates a contravariant projection of a given type, denoted by the `in` modifier applied to a type.\r\n * For example, in the type `MutableList<in Number>`, `in Number` is a contravariant projection of the type of class `Number`.\r\n */\r\n public fun contravariant(type: KType): KTypeProjection =\r\n KTypeProjection(KVariance.IN, type)\r\n\r\n /**\r\n * Creates a covariant projection of a given type, denoted by the `out` modifier applied to a type.\r\n * For example, in the type `Array<out Number>`, `out Number` is a covariant projection of the type of class `Number`.\r\n */\r\n public fun covariant(type: KType): KTypeProjection =\r\n KTypeProjection(KVariance.OUT, type)\r\n }\r\n}\r\n","/*\r\n * Copyright 2010-2016 JetBrains s.r.o.\r\n *\r\n * Licensed under the Apache License, Version 2.0 (the \"License\");\r\n * you may not use this file except in compliance with the License.\r\n * You may obtain a copy of the License at\r\n *\r\n * http://www.apache.org/licenses/LICENSE-2.0\r\n *\r\n * Unless required by applicable law or agreed to in writing, software\r\n * distributed under the License is distributed on an \"AS IS\" BASIS,\r\n * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\r\n * See the License for the specific language governing permissions and\r\n * limitations under the License.\r\n */\r\n\r\npackage kotlin.reflect\r\n\r\n/**\r\n * Represents variance applied to a type parameter on the declaration site (*declaration-site variance*),\r\n * or to a type in a projection (*use-site variance*).\r\n *\r\n * See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/generics.html#variance)\r\n * for more information.\r\n *\r\n * @see [KTypeParameter.variance]\r\n * @see [KTypeProjection]\r\n */\r\n@SinceKotlin(\"1.1\")\r\nenum class KVariance {\r\n /**\r\n * The affected type parameter or type is *invariant*, which means it has no variance applied to it.\r\n */\r\n INVARIANT,\r\n\r\n /**\r\n * The affected type parameter or type is *contravariant*. Denoted by the `in` modifier in the source code.\r\n */\r\n IN,\r\n\r\n /**\r\n * The affected type parameter or type is *covariant*. Denoted by the `out` modifier in the source code.\r\n */\r\n OUT,\r\n}\r\n","/*\r\n * Copyright 2010-2016 JetBrains s.r.o.\r\n *\r\n * Licensed under the Apache License,

Version 2.0 (the \"License\");\r\n * you may not use this file except in compliance with the License.\r\n * You may obtain a copy of the License at\r\n *\r\n * http://www.apache.org/licenses/LICENSE-2.0\r\n *\r\n * Unless required by applicable law or agreed to in writing, software\r\n * distributed under the License is distributed on an \"AS IS\" BASIS,\r\n * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\r\n * See the License for the specific language governing permissions and\r\n * limitations under the License.\r\n */\r\n\r\npackage kotlin.reflect\r\n\r\n/**\r\n * Visibility is an aspect of a Kotlin declaration regulating where that declaration is accessible in the source code.\r\n * Visibility can be changed with one of the following modifiers: `public`, `protected`, `internal`, `private`.\r\n *\r\n * Note that some Java visibilities such as package-private and protected (which also gives access to items from the same package)\r\n * cannot be represented in Kotlin, so there's no [KVisibility] value corresponding to them.\r\n *\r\n * See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/visibility-modifiers.html)\r\n * for more information.\r\n */\r\n@SinceKotlin(\"1.1\")\r\nenum class KVisibility {\r\n   /**\r\n   * Visibility of declarations marked with the `public` modifier, or with no modifier at all.\r\n   */\r\n   PUBLIC,\r\n\r\n   /**\r\n   * Visibility of declarations marked with the `protected` modifier.\r\n   */\r\n   PROTECTED,\r\n\r\n   /**\r\n   * Visibility of declarations marked with the `internal` modifier.\r\n   */\r\n   INTERNAL,\r\n\r\n   /**\r\n   * Visibility of declarations marked with the `private` modifier.\r\n   */\r\n   PRIVATE,\r\n}\r\n","/*\r\n * Copyright 2010-2015 JetBrains s.r.o.\r\n *\r\n * Licensed under the Apache License, Version 2.0 (the \"License\");\r\n * you may not use this file except in compliance with the License.\r\n * You may obtain a copy of the License at\r\n *\r\n * http://www.apache.org/licenses/LICENSE-2.0\r\n *\r\n * Unless required by applicable law or agreed to in writing, software\r\n * distributed under the License is distributed on an \"AS IS\" BASIS,\r\n * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\r\n * See the License for the specific language governing permissions and\r\n * limitations under the License.\r\n */\r\n\r\npackage kotlin\r\n\r\n/**\r\n * The type with only one value: the `Unit` object. This type corresponds to the `void` type in Java.\r\n */\r\npublic object Unit {\r\n   override fun toString() = \"kotlin.Unit\"\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@JsName(\"arrayIterator\")\r\ninternal fun arrayIterator(array: dynamic, type: String?) = when (type) {\r\n   null -> {\r\n   val arr: Array<dynamic> = array\r\n   object : Iterator<dynamic> {\r\n   var index = 0\r\n   override fun hasNext() = index < arr.size\r\n   override fun next() = if (index < arr.size) arr[index++] else throw NoSuchElementException(\"$index\")\r\n   }\r\n   }\r\n   \"BooleanArray\" -> booleanArrayIterator(array)\r\n   \"ByteArray\" -> byteArrayIterator(array)\r\n   \"ShortArray\" -> shortArrayIterator(array)\r\n   \"CharArray\" -> charArrayIterator(array)\r\n   \"IntArray\" -> intArrayIterator(array)\r\n   \"LongArray\" -> longArrayIterator(array)\r\n   \"FloatArray\" -> floatArrayIterator(array)\r\n   \"DoubleArray\" -> doubleArrayIterator(array)\r\n   else -> throw IllegalStateException(\"Unsupported type argument for arrayIterator: $type\")\r\n}\r\n\r\n@JsName(\"booleanArrayIterator\")\r\ninternal fun booleanArrayIterator(array: BooleanArray) = object : BooleanIterator() {\r\n   var index = 0\r\n   override fun hasNext() = index < array.size\r\n   override fun nextBoolean() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\r\n}\r\n\r\n@JsName(\"byteArrayIterator\")\r\ninternal fun byteArrayIterator(array: ByteArray) = object : ByteIterator() {\r\n   var index = 0\r\n   override fun hasNext() = index < array.size\r\n   override fun nextByte() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\r\n}\r\n\r\n@JsName(\"shortArrayIterator\")\r\ninternal fun shortArrayIterator(array: ShortArray) = object : ShortIterator() {\r\n   var index = 0\r\n   override fun hasNext() = index < array.size\r\n   override fun nextShort() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\r\n}\r\n\r\n@JsName(\"charArrayIterator\")\r\ninternal fun charArrayIterator(array: CharArray) = object : CharIterator() {\r\n   var index = 0\r\n   override fun hasNext() = index < array.size\r\n   override fun nextChar() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\r\n}\r\n\r\n@JsName(\"intArrayIterator\")\r\ninternal fun intArrayIterator(array: IntArray) = object : IntIterator() {\r\n   var index = 0\r\n   override fun hasNext() = index <

array.size\r\n   override fun nextInt() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\r\n}\r\n\r\n@JsName(\"floatArrayIterator\")\r\ninternal fun floatArrayIterator(array: FloatArray) = object : FloatIterator() {\r\n   var index = 0\r\n   override fun hasNext() = index < array.size\r\n   override fun nextFloat() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\r\n}\r\n\r\n@JsName(\"doubleArrayIterator\")\r\ninternal fun doubleArrayIterator(array: DoubleArray) = object : DoubleIterator() {\r\n   var index = 0\r\n   override fun hasNext() = index < array.size\r\n   override fun nextDouble() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\r\n}\r\n\r\n@JsName(\"longArrayIterator\")\r\ninternal fun longArrayIterator(array: LongArray) = object : LongIterator() {\r\n   var index = 0\r\n   override fun hasNext() = index < array.size\r\n   override fun nextLong() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\r\n}\r\n\r\n@JsName(\"PropertyMetadata\")\r\ninternal class PropertyMetadata(@JsName(\"callableName\") val name: String)\r\n\r\n@JsName(\"noWhenBranchMatched\")\r\ninternal fun noWhenBranchMatched(): Nothing = throw NoWhenBranchMatchedException()\r\n\r\n@JsName(\"subSequence\")\r\ninternal fun subSequence(c: CharSequence, startIndex: Int, endIndex: Int): CharSequence {\r\n   if (c is String) {\r\n   return c.substring(startIndex, endIndex)\r\n   } else {\r\n   return c.asDynamic().`subSequence_vux9f0$`(startIndex, endIndex)\r\n   }\r\n}\r\n\r\n@JsName(\"captureStack\")\r\ninternal fun captureStack(baseClass: JsClass<in Throwable>, instance: Throwable) {\r\n   if (js(\"Error\").captureStackTrace) {\r\n   js(\"Error\").captureStackTrace(instance, instance::class.js);\r\n   } else {\r\n   instance.asDynamic().stack = js(\"new Error()\").stack;\r\n   }\r\n}\r\n\r\n@JsName(\"newThrowable\")\r\ninternal fun newThrowable(message: String?, cause: Throwable?): Throwable {\r\n   val throwable = js(\"new Error()\")\r\n   throwable.message = if (jsTypeOf(message) == \"undefined\") {\r\n   if (cause != null) cause.toString() else null\r\n   } else {\r\n   message\r\n   }\r\n   throwable.cause = cause\r\n   throwable.name = \"Throwable\"\r\n   return throwable\r\n}\r\n\r\n@JsName(\"BoxedChar\")\r\ninternal class BoxedChar(val c: Int) : Comparable<Int> {\r\n   override fun equals(other: Any?): Boolean {\r\n   return other is BoxedChar && c == other.c\r\n   }\r\n\r\n   override fun hashCode(): Int {\r\n   return c\r\n   }\r\n\r\n   override fun toString(): String {\r\n   return js(\"this.c\").unsafeCast<Char>().toString()\r\n   }\r\n\r\n   override fun compareTo(other: Int): Int {\r\n   return js(\"this.c - other\").unsafeCast<Int>()\r\n   }\r\n\r\n   @JsName(\"valueOf\")\r\n   public fun valueOf(): Int {\r\n   return c\r\n   }\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\ninternal inline fun <T> concat(args: Array<T>): T {\r\n   val typed = js(\"Array\")(args.size)\r\n   for (i in args.indices) {\r\n   val arr = args[i]\r\n   if (arr !is Array<*>) {\r\n   typed[i] = js(\"[]\").slice.call(arr)\r\n   } else {\r\n   typed[i] = arr\r\n   }\r\n   }\r\n   return js(\"[]\").concat.apply(js(\"[]\"), typed);\r\n}\r\n\r\n/** Concat regular Array's and TypedArray's into an Array.\r\n */\r\n@PublishedApi\r\n@JsName(\"arrayConcat\")\r\n@Suppress(\"UNUSED_PARAMETER\")\r\ninternal fun <T> arrayConcat(a: T, b: T): T {\r\n   return concat(js(\"arguments\"))\r\n}\r\n\r\n/** Concat primitive arrays. Main use: prepare vararg arguments.\r\n * For compatibility with 1.1.0 the arguments may be a mixture of Array's and TypedArray's.\r\n *\r\n * If the first argument is TypedArray (Byte-, Short-, Char-, Int-, Float-, and DoubleArray) returns a TypedArray, otherwise an Array.\r\n * If the first argument has the $type$ property (Boolean-, Char-, and LongArray) copy its value to result.$type$.\r\n * If the first argument is a regular Array without the $type$ property default to arrayConcat.\r\n */\r\n@PublishedApi\r\n@JsName(\"primitiveArrayConcat\")\r\n@Suppress(\"UNUSED_PARAMETER\")\r\ninternal fun <T> primitiveArrayConcat(a: T, b: T): T {\r\n   val args: Array<T> = js(\"arguments\")\r\n   if (a is Array<*> && a.asDynamic().`$type$` === undefined) {\r\n   return concat(args)\r\n   } else {\r\n   var size = 0\r\n   for (i in args.indices) {\r\n   size += args[i].asDynamic().length as Int\r\n   }\r\n   val result = js(\"new a.constructor(size)\")\r\n   kotlin.copyArrayType(a, result)\r\n   size = 0\r\n   for (i in args.indices) {\r\n   val arr = args[i].asDynamic()\r\n   for (j in 0 until arr.length) {\r\n   result[size++] = arr[j]\r\n   }\r\n   }\r\n   return result\r\n   }\r\n}\r\n\r\n@JsName(\"booleanArrayOf\")\r\ninternal fun booleanArrayOf() = withType(\"BooleanArray\", js(\"[].slice.call(arguments)\"))\r\n\r\n@JsName(\"charArrayOf\")\r\n// The arguments have to be slice'd here because of Rhino (see KT-16974)\r\ninternal fun charArrayOf() =

withType(\"CharArray\", js(\"new Uint16Array([].slice.call(arguments))\"))\r\n\r\n@JsName(\"longArrayOf\")\r\ninternal fun longArrayOf() = withType(\"LongArray\", js(\"[].slice.call(arguments)\"))\r\n\r\n@JsName(\"withType\")\r\n@kotlin.internal.InlineOnly\r\ninternal inline fun withType(type: String, array: dynamic): dynamic {\r\n   array.`$type$` = type\r\n   return array\r\n}","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.js\r\n\r\n/**\r\n * Function corresponding to JavaScript's `typeof` operator\r\n */\r\n@kotlin.internal.InlineOnly\r\n@Suppress(\"UNUSED_PARAMETER\")\r\npublic inline fun jsTypeOf(a: Any?): String = js(\"typeof a\")\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:Suppress(\"UNUSED_PARAMETER\", \"NOTHING_TO_INLINE\")\r\n\r\npackage kotlin\r\n\r\n/**\r\n * Returns an empty array of the specified type [T].\r\n */\r\npublic inline fun <T> emptyArray(): Array<T> = js(\"[]\")\r\n\r\n@library\r\npublic fun <T> arrayOf(vararg elements: T): Array<T> = definedExternally\r\n\r\n@library\r\npublic fun doubleArrayOf(vararg elements: Double): DoubleArray = definedExternally\r\n\r\n@library\r\npublic fun floatArrayOf(vararg elements: Float): FloatArray = definedExternally\r\n\r\n@library\r\npublic fun longArrayOf(vararg elements: Long): LongArray = definedExternally\r\n\r\n@library\r\npublic fun intArrayOf(vararg elements: Int): IntArray = definedExternally\r\n\r\n@library\r\npublic fun charArrayOf(vararg elements: Char): CharArray = definedExternally\r\n\r\n@library\r\npublic fun shortArrayOf(vararg elements: Short): ShortArray = definedExternally\r\n\r\n@library\r\npublic fun byteArrayOf(vararg elements: Byte): ByteArray = definedExternally\r\n\r\n@library\r\npublic fun booleanArrayOf(vararg elements: Boolean): BooleanArray = definedExternally\r\n\r\n/**\r\n * Creates a new instance of the [Lazy] that uses the specified initialization function [initializer].\r\n */\r\npublic actual fun <T> lazy(initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)\r\n\r\n/**\r\n * Creates a new instance of the [Lazy] that uses the specified initialization function [initializer].\r\n *\r\n * The [mode] parameter is ignored. */\r\npublic actual fun <T> lazy(mode: LazyThreadSafetyMode, initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)\r\n\r\n/**\r\n * Creates a new instance of the [Lazy] that uses the specified initialization function [initializer].\r\n *\r\n * The [lock] parameter is ignored.\r\n */\r\npublic actual fun <T> lazy(lock: Any?, initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)\r\n\r\n\r\ninternal fun fillFrom(src: dynamic, dst: dynamic): dynamic {\r\n   val srcLen: Int = src.length\r\n   val dstLen: Int = dst.length\r\n   var index: Int = 0\r\n   while (index < srcLen && index < dstLen) dst[index] = src[index++]\r\n   return dst\r\n}\r\n\r\n\r\ninternal fun arrayCopyResize(source: dynamic, newSize: Int, defaultValue: Any?): dynamic {\r\n   val result = source.slice(0, newSize)\r\n   copyArrayType(source, result)\r\n   var index: Int = source.length\r\n   if (newSize > index) {\r\n   result.length = newSize\r\n   while (index < newSize) result[index++] = defaultValue\r\n   }\r\n   return result\r\n}\r\n\r\ninternal fun <T> arrayPlusCollection(array: dynamic, collection: Collection<T>): dynamic {\r\n   val result = array.slice()\r\n   result.length += collection.size\r\n   copyArrayType(array, result)\r\n   var index: Int = array.length\r\n   for (element in collection) result[index++] = element\r\n   return result\r\n}\r\n\r\ninternal fun <T> fillFromCollection(dst: dynamic, startIndex: Int, collection: Collection<T>): dynamic {\r\n   var index = startIndex\r\n   for (element in collection) dst[index++] = element\r\n   return dst\r\n}\r\n\r\ninternal inline fun copyArrayType(from: dynamic, to: dynamic) {\r\n   if (from.`$type$` !== undefined) {\r\n   to.`$type$` = from.`$type$`\r\n   }\r\n}\r\n\r\ninternal inline fun jsIsType(obj: dynamic, jsClass: dynamic) = js(\"Kotlin\").isType(obj, jsClass)","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.coroutines\r\n\r\nimport kotlin.coroutines.intrinsics.COROUTINE_SUSPENDED\r\n\r\n@SinceKotlin(\"1.3\")\r\n@JsName(\"CoroutineImpl\")\r\ninternal abstract class CoroutineImpl(private val resultContinuation: Continuation<Any?>) : Continuation<Any?> {\r\n   protected var state = 0\r\n   protected var exceptionState = 0\r\n   protected var result:

Any? = null\r\n protected var exception: Throwable? = null\r\n protected var finallyPath: Array<Int>? = null\r\n\r\n public override val context: CoroutineContext = resultContinuation.context\r\n\r\n private var intercepted_: Continuation<Any?>? = null\r\n\r\n public fun intercepted(): Continuation<Any?> =\r\n intercepted_\r\n ?: (context[ContinuationInterceptor]?.interceptContinuation(this) ?: this)\r\n .also { intercepted_ = it }\r\n\r\n override fun resumeWith(result: Result<Any?>) {\r\n var current = this\r\n var currentResult: Any? = result.getOrNull()\r\n var currentException: Throwable? = result.exceptionOrNull()\r\n\r\n // This loop unrolls recursion in current.resumeWith(param) to make saner and shorter stack traces on resume\r\n while (true) {\r\n with(current) {\r\n val completion = resultContinuation\r\n\r\n // Set result and exception fields in the current continuation\r\n if (currentException == null) {\r\n this.result = currentResult\r\n } else {\r\n state = exceptionState\r\n exception = currentException\r\n }\r\n\r\n try {\r\n val outcome = doResume()\r\n if (outcome === COROUTINE_SUSPENDED) return\r\n currentResult = outcome\r\n currentException = null\r\n } catch (exception: dynamic) { // Catch all exceptions\r\n currentResult = null\r\n currentException = exception.unsafeCast<Throwable>()\r\n }\r\n\r\n releaseIntercepted() // this state machine instance is terminating\r\n\r\n if (completion is CoroutineImpl) {\r\n // unrolling recursion via loop\r\n current = completion\r\n } else {\r\n // top-level completion reached -- invoke and return\r\n currentException?.let {\r\n completion.resumeWithException(it)\r\n } ?: completion.resume(currentResult)\r\n return\r\n }\r\n }\r\n }\r\n}\r\n\r\n private fun releaseIntercepted() {\r\n val intercepted = intercepted_\r\n if (intercepted != null && intercepted !== this) {\r\n context[ContinuationInterceptor]!!.releaseInterceptedContinuation(intercepted)\r\n }\r\n this.intercepted_ = CompletedContinuation // just in case\r\n }\r\n\r\n protected abstract fun doResume(): Any?\r\n}\r\n\r\ninternal object CompletedContinuation : Continuation<Any?> {\r\n override val context: CoroutineContext\r\n get() = error(\"This continuation is already complete\")\r\n\r\n override fun resumeWith(result: Result<Any?>) {\r\n error(\"This continuation is already complete\")\r\n }\r\n\r\n override fun toString(): String = \"This continuation is already complete\"\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:Suppress(\"UNCHECKED_CAST\", \"RedundantVisibilityModifier\")\r\n\r\npackage kotlin\r\n\r\nimport kotlin.contracts.*\r\nimport kotlin.internal.InlineOnly\r\nimport kotlin.jvm.JvmField\r\n\r\n/**\r\n * A discriminated union that encapsulates successful outcome with a value of type [T]\r\n * or a failure with an arbitrary [Throwable] exception.\r\n */\r\n@Suppress(\"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS\")\r\n@SinceKotlin(\"1.3\")\r\npublic inline class Result<out T> @PublishedApi internal constructor(\r\n @PublishedApi\r\n internal val value: Any?\r\n) : Serializable {\r\n // discovery\r\n\r\n /**\r\n * Returns `true` if this instance represents successful outcome.\r\n * In this case [isFailure] returns `false`.\r\n */\r\n public val isSuccess: Boolean get() = value !is Failure\r\n\r\n /**\r\n * Returns `true` if this instance represents failed outcome.\r\n * In this case [isSuccess] returns `false`.\r\n */\r\n public val isFailure: Boolean get() = value is Failure\r\n\r\n // value & exception retrieval\r\n\r\n /**\r\n * Returns the encapsulated value if this instance represents [success][Result.isSuccess] or `null`\r\n * if it is [failure][Result.isFailure].\r\n *\r\n * This function is shorthand for `getOrElse { null }` (see [getOrElse]) or\r\n * `fold(onSuccess = { it }, onFailure = { null })` (see [fold]).\r\n */\r\n @InlineOnly\r\n public inline fun getOrNull(): T? =\r\n when {\r\n isFailure -> null\r\n else -> value as T\r\n }\r\n\r\n /**\r\n * Returns the encapsulated exception if this instance represents [failure][isFailure] or `null`\r\n * if it is [success][isSuccess].\r\n *\r\n * This function is shorthand for `fold(onSuccess = { null }, onFailure = { it })` (see [fold]).\r\n */\r\n public fun exceptionOrNull(): Throwable? =\r\n when (value) {\r\n is Failure -> value.exception\r\n else -> null\r\n }\r\n\r\n /**\r\n * Returns a string `Success(v)` if this instance represents [success][Result.isSuccess]\r\n * where `v` is a string representation of the value or a string `Failure(x)` if\r\n * it is [failure][isFailure] where `x` is a string

representation of the exception.\r\n */\r\n public override fun toString(): String =\r\n when (value) {\r\n is Failure -> value.toString() // \"Failure($exception)\"\r\n else -> \"Success($value)\"\r\n }\r\n\r\n // companion with constructors\r\n\r\n /**\r\n * Companion object for [Result] class that contains its constructor functions\r\n * [success] and [failure].\r\n */\r\n public companion object {\r\n /**\r\n * Returns an instance that encapsulates the given [value] as successful value.\r\n */\r\n @InlineOnly\r\n public inline fun <T> success(value: T): Result<T> =\r\n Result(value)\r\n\r\n /**\r\n * Returns an instance that encapsulates the given [exception] as failure.\r\n */\r\n @InlineOnly\r\n public inline fun <T> failure(exception: Throwable): Result<T> =\r\n Result(createFailure(exception))\r\n }\r\n\r\n internal class Failure(\r\n @JvmField\r\n val exception: Throwable\r\n) : Serializable {\r\n override fun equals(other: Any?): Boolean = other is Failure && exception == other.exception\r\n override fun hashCode(): Int = exception.hashCode()\r\n override fun toString(): String = \"Failure($exception)\"\r\n }\r\n}\r\n\r\n/**\r\n * Creates an instance of internal marker [Result.Failure] class to\r\n * make sure that this class is not exposed in ABI.\r\n */\r\n@PublishedApi\r\n@SinceKotlin(\"1.3\")\r\ninternal fun createFailure(exception: Throwable): Any =\r\n Result.Failure(exception)\r\n\r\n/**\r\n * Throws exception if the result is failure. This internal function minimizes\r\n * inlined bytecode for [getOrThrow] and makes sure that in the future we can\r\n * add some exception-augmenting logic here (if needed).\r\n */\r\n@PublishedApi\r\n@SinceKotlin(\"1.3\")\r\ninternal fun Result<*>.throwOnFailure() {\r\n if (value is Result.Failure) throw value.exception\r\n}\r\n\r\n/**\r\n * Calls the specified function [block] and returns its encapsulated result if invocation was successful,\r\n * catching and encapsulating any thrown exception as a failure.\r\n */\r\n@InlineOnly\r\n@SinceKotlin(\"1.3\")\r\npublic inline fun <R> runCatching(block: () -> R): Result<R> {\r\n return try {\r\n Result.success(block())\r\n } catch (e: Throwable) {\r\n Result.failure(e)\r\n }\r\n}\r\n\r\n/**\r\n * Calls the specified function [block] with `this` value as its receiver and returns its encapsulated result\r\n * if invocation was successful, catching and encapsulating any thrown exception as a failure.\r\n */\r\n@InlineOnly\r\n@SinceKotlin(\"1.3\")\r\npublic inline fun <T, R> T.runCatching(block: T.() -> R): Result<R> {\r\n return try {\r\n Result.success(block())\r\n } catch (e: Throwable) {\r\n Result.failure(e)\r\n }\r\n}\r\n\r\n// -- extensions ---\r\n\r\n/**\r\n * Returns the encapsulated value if this instance represents [success][Result.isSuccess] or throws the encapsulated exception\r\n * if it is [failure][Result.isFailure].\r\n *\r\n * This function is shorthand for `getOrElse { throw it }` (see [getOrElse]).\r\n */\r\n@InlineOnly\r\n@SinceKotlin(\"1.3\")\r\npublic inline fun <T> Result<T>.getOrThrow(): T {\r\n throwOnFailure()\r\n return value as T\r\n}\r\n\r\n/**\r\n * Returns the encapsulated value if this instance represents [success][Result.isSuccess] or the\r\n * result of [onFailure] function for encapsulated exception if it is [failure][Result.isFailure].\r\n *\r\n * Note, that an exception thrown by [onFailure] function is rethrown by this function.\r\n *\r\n * This function is shorthand for `fold(onSuccess = { it }, onFailure = onFailure)` (see [fold]).\r\n */\r\n@InlineOnly\r\n@SinceKotlin(\"1.3\")\r\npublic inline fun <R, T : R> Result<T>.getOrElse(onFailure: (exception: Throwable) -> R): R {\r\n contract {\r\n callsInPlace(onFailure, InvocationKind.AT_MOST_ONCE)\r\n }\r\n return when (val exception = exceptionOrNull()) {\r\n null -> value as T\r\n else -> onFailure(exception)\r\n }\r\n}\r\n\r\n/**\r\n * Returns the encapsulated value if this instance represents [success][Result.isSuccess] or the\r\n * [defaultValue] if it is [failure][Result.isFailure].\r\n *\r\n * This function is shorthand for `getOrElse { defaultValue }` (see [getOrElse]).\r\n */\r\n@InlineOnly\r\n@SinceKotlin(\"1.3\")\r\npublic inline fun <R, T : R> Result<T>.getOrDefault(defaultValue: R): R {\r\n if (isFailure) return defaultValue\r\n return value as T\r\n}\r\n\r\n/**\r\n * Returns the the result of [onSuccess] for encapsulated value if this instance represents [success][Result.isSuccess]\r\n * or the result of [onFailure] function for encapsulated exception if it is [failure][Result.isFailure].\r\n *\r\n * Note, that an exception thrown by [onSuccess] or by [onFailure] function is rethrown by this function.\r\n */\r\n@InlineOnly\r\n@SinceKotlin(\"1.3\")\r\npublic inline fun <R, T> Result<T>.fold(\r\n onSuccess: (value: T) -> R,\r\n onFailure: (exception: Throwable) -> R\r\n): R {\r\n contract {\r\n callsInPlace(onSuccess, InvocationKind.AT_MOST_ONCE)\r\n callsInPlace(onFailure, InvocationKind.AT_MOST_ONCE)\r\n }\r\n return when (val exception = exceptionOrNull()) {\r\n null -> onSuccess(value as T)\r\n else ->

onFailure(exception)\r\n   }\r\n}\r\n\r\n// transformation\r\n\r\n/**\r\n * Returns the encapsulated result of the given [transform] function applied to encapsulated value\r\n * if this instance represents [success][Result.isSuccess] or the\r\n * original encapsulated exception if it is [failure][Result.isFailure].\r\n *\r\n * Note, that an exception thrown by [transform] function is rethrown by this function.\r\n * See [mapCatching] for an alternative that encapsulates exceptions.\r\n */\r\n@InlineOnly\r\n@SinceKotlin(\"1.3\")\r\npublic inline fun <R, T> Result<T>.map(transform: (value: T) -> R): Result<R> {\r\n   contract {\r\n   callsInPlace(transform, InvocationKind.AT_MOST_ONCE)\r\n   }\r\n   return when {\r\n   isSuccess -> Result.success(transform(value as T))\r\n   else -> Result(value)\r\n   }\r\n}\r\n\r\n/**\r\n * Returns the encapsulated result of the given [transform] function applied to encapsulated value\r\n * if this instance represents [success][Result.isSuccess] or the\r\n * original encapsulated exception if it is [failure][Result.isFailure].\r\n *\r\n * Any exception thrown by [transform] function is caught, encapsulated as a failure and returned by this function.\r\n * See [map] for an alternative that rethrows exceptions.\r\n */\r\n@InlineOnly\r\n@SinceKotlin(\"1.3\")\r\npublic inline fun <R, T> Result<T>.mapCatching(transform: (value: T) -> R): Result<R> {\r\n   return when {\r\n   isSuccess -> runCatching { transform(value as T) }\r\n   else -> Result(value)\r\n   }\r\n}\r\n\r\n/**\r\n * Returns the encapsulated result of the given [transform] function applied to encapsulated exception\r\n * if this instance represents [failure][Result.isFailure] or the\r\n * original encapsulated value if it is [success][Result.isSuccess].\r\n *\r\n * Note, that an exception thrown by [transform] function is rethrown by this function.\r\n * See [recoverCatching] for an alternative that encapsulates exceptions.\r\n */\r\n@InlineOnly\r\n@SinceKotlin(\"1.3\")\r\npublic inline fun <R, T : R> Result<T>.recover(transform: (exception: Throwable) -> R): Result<R> {\r\n   contract {\r\n   callsInPlace(transform, InvocationKind.AT_MOST_ONCE)\r\n   }\r\n   return when (val exception = exceptionOrNull()) {\r\n   null -> this\r\n   else -> Result.success(transform(exception))\r\n   }\r\n}\r\n\r\n/**\r\n * Returns the encapsulated result of the given [transform] function applied to encapsulated exception\r\n * if this instance represents [failure][Result.isFailure] or the\r\n * original encapsulated value if it is [success][Result.isSuccess].\r\n *\r\n * Any exception thrown by [transform] function is caught, encapsulated as a failure and returned by this function.\r\n * See [recover] for an alternative that rethrows exceptions.\r\n */\r\n@InlineOnly\r\n@SinceKotlin(\"1.3\")\r\npublic inline fun <R, T : R> Result<T>.recoverCatching(transform: (exception: Throwable) -> R): Result<R> {\r\n   val value = value // workaround for inline classes BE bug\r\n   return when (val exception = exceptionOrNull()) {\r\n   null -> this\r\n   else -> runCatching { transform(exception) }\r\n   }\r\n}\r\n\r\n// \"peek\" onto value/exception and pipe\r\n\r\n/**\r\n * Performs the given [action] on encapsulated exception if this instance represents [failure][Result.isFailure].\r\n * Returns the original `Result` unchanged.\r\n */\r\n@InlineOnly\r\n@SinceKotlin(\"1.3\")\r\npublic inline fun <T> Result<T>.onFailure(action: (exception: Throwable) -> Unit): Result<T> {\r\n   contract {\r\n   callsInPlace(action, InvocationKind.AT_MOST_ONCE)\r\n   }\r\n   exceptionOrNull()?.let { action(it) }\r\n   return this\r\n}\r\n\r\n/**\r\n * Performs the given [action] on encapsulated value if this instance represents [success][Result.isSuccess].\r\n * Returns the original `Result` unchanged.\r\n */\r\n@InlineOnly\r\n@SinceKotlin(\"1.3\")\r\npublic inline fun <T> Result<T>.onSuccess(action: (value: T) -> Unit): Result<T> {\r\n   contract {\r\n   callsInPlace(action, InvocationKind.AT_MOST_ONCE)\r\n   }\r\n   if (isSuccess) action(value as T)\r\n   return this\r\n}\r\n\r\n// ----------\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.coroutines\r\n\r\nimport kotlin.coroutines.intrinsics.*\r\nimport kotlin.internal.InlineOnly\r\n\r\n/**\r\n * Interface representing a continuation after a suspension point that returns a value of type `T`.\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic interface Continuation<in T> {\r\n   /**\r\n   * The context of the coroutine that corresponds to this continuation.\r\n   */\r\n   public val context: CoroutineContext\r\n\r\n   /**\r\n   * Resumes the execution of the corresponding coroutine passing a successful or failed [result] as the\r\n   * return value of the last suspension point.\r\n   */\r\n   public fun resumeWith(result: Result<T>)\r\n}\r\n\r\n/**\r\n * Classes and interfaces marked with this annotation are restricted when used as receivers for extension\r\n *

`suspend` functions. These `suspend` extensions can only invoke other member or extension `suspend` functions on this particular\r\n * receiver and are restricted from calling arbitrary suspension functions.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@Target(AnnotationTarget.CLASS)\r\n@Retention(AnnotationRetention.BINARY)\r\npublic annotation class RestrictsSuspension\r\n\r\n/**\r\n * Resumes the execution of the corresponding coroutine passing [value] as the return value of the last suspension point.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@InlineOnly\r\npublic inline fun <T> Continuation<T>.resume(value: T): Unit =\r\n resumeWith(Result.success(value))\r\n\r\n/**\r\n * Resumes the execution of the corresponding coroutine so that the [exception] is re-thrown right after the\r\n * last suspension point.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@InlineOnly\r\npublic inline fun <T> Continuation<T>.resumeWithException(exception: Throwable): Unit =\r\n resumeWith(Result.failure(exception))\r\n\r\n\r\n/**\r\n * Creates a [Continuation] instance with the given [context] and implementation of [resumeWith] method.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@InlineOnly\r\npublic inline fun <T> Continuation(\r\n context: CoroutineContext,\r\n crossinline resumeWith: (Result<T>) -> Unit\r\n): Continuation<T> =\r\n object : Continuation<T> {\r\n override val context: CoroutineContext\r\n get() = context\r\n\r\n override fun resumeWith(result: Result<T>) =\r\n resumeWith(result)\r\n }\r\n\r\n/**\r\n * Creates a coroutine without a receiver and with result type [T].\r\n * This function creates a new, fresh instance of suspendable computation every time it is invoked.\r\n *\r\n * To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation] instance.\r\n * The [completion] continuation is invoked when the coroutine completes with a result or an exception.\r\n * Subsequent invocation of any resume function on the resulting continuation will produce an [IllegalStateException].\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@Suppress(\"UNCHECKED_CAST\")\r\npublic fun <T> (suspend () -> T).createCoroutine(\r\n completion: Continuation<T>\r\n): Continuation<Unit> =\r\n SafeContinuation(createCoroutineUnintercepted(completion).intercepted(), COROUTINE_SUSPENDED)\r\n\r\n/**\r\n * Creates a coroutine with receiver type [R] and result type [T].\r\n * This function creates a new, fresh instance of suspendable computation every time it is invoked.\r\n *\r\n * To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation] instance.\r\n * The [completion] continuation is invoked when the coroutine completes with a result or an exception.\r\n * Subsequent invocation of any resume function on the resulting continuation will produce an [IllegalStateException].\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@Suppress(\"UNCHECKED_CAST\")\r\npublic fun <R, T> (suspend R.() -> T).createCoroutine(\r\n receiver: R,\r\n completion: Continuation<T>\r\n): Continuation<Unit> =\r\n SafeContinuation(createCoroutineUnintercepted(receiver, completion).intercepted(), COROUTINE_SUSPENDED)\r\n\r\n/**\r\n * Starts a coroutine without a receiver and with result type [T].\r\n * This function creates and starts a new, fresh instance of suspendable computation every time it is invoked.\r\n * The [completion] continuation is invoked when the coroutine completes with a result or an exception.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@Suppress(\"UNCHECKED_CAST\")\r\npublic fun <T> (suspend () -> T).startCoroutine(\r\n completion: Continuation<T>\r\n) {\r\n createCoroutineUnintercepted(completion).intercepted().resume(Unit)\r\n}\r\n\r\n/**\r\n * Starts a coroutine with receiver type [R] and result type [T].\r\n * This function creates and starts a new, fresh instance of suspendable computation every time it is invoked.\r\n * The [completion] continuation is invoked when the coroutine completes with a result or an exception.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@Suppress(\"UNCHECKED_CAST\")\r\npublic fun <R, T> (suspend R.() -> T).startCoroutine(\r\n receiver: R,\r\n completion: Continuation<T>\r\n) {\r\n createCoroutineUnintercepted(receiver, completion).intercepted().resume(Unit)\r\n}\r\n\r\n/**\r\n * Obtains the current continuation instance inside suspend functions and suspends\r\n * the currently running coroutine.\r\n *\r\n * In this function both [Continuation.resume] and [Continuation.resumeWithException] can be used either synchronously in\r\n * the same stack-frame where the suspension function is run or asynchronously later in the same thread or\r\n * from a different thread of execution. Subsequent invocation of any resume function will produce an [IllegalStateException].\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@InlineOnly\r\npublic suspend inline fun <T> suspendCoroutine(crossinline block: (Continuation<T>) -> Unit): T =\r\n

suspendCoroutineUninterceptedOrReturn { c: Continuation<T> ->\r\n val safe = SafeContinuation(c.intercepted())\r\n block(safe)\r\n safe.getOrThrow()\r\n }\r\n\r\n/**\r\n * Returns the context of the current coroutine.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@Suppress(\"WRONG_MODIFIER_TARGET\")\r\n@InlineOnly\r\npublic suspend inline val coroutineContext: CoroutineContext\r\n get() {\r\n throw NotImplementedError(\"Implemented as intrinsic\")\r\n }\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.coroutines.intrinsics\r\n\r\nimport kotlin.coroutines.*\r\nimport kotlin.internal.InlineOnly\r\n\r\n/**\r\n * Starts an unintercepted coroutine without a receiver and with result type [T] and executes it until its first suspension.\r\n * Returns the result of the coroutine or throws its exception if it does not suspend or [COROUTINE_SUSPENDED] if it suspends.\r\n * In the latter case, the [completion] continuation is invoked when the coroutine completes with a result or an exception.\r\n *\r\n * The coroutine is started directly in the invoker's thread without going through the [ContinuationInterceptor] that might\r\n * be present in the completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation\r\n * context is established.\r\n *\r\n * This function is designed to be used from inside of [suspendCoroutineUninterceptedOrReturn] to resume the execution of the suspended\r\n * coroutine using a reference to the suspending function.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@InlineOnly\r\npublic actual inline fun <T> (suspend () -> T).startCoroutineUninterceptedOrReturn(\r\n completion: Continuation<T>\r\n): Any? = this.asDynamic()(completion, false)\r\n\r\n/**\r\n * Starts an unintercepted coroutine with receiver type [R] and result type [T] and executes it until its first suspension.\r\n * Returns the result of the coroutine or throws its exception if it does not suspend or [COROUTINE_SUSPENDED] if it suspends.\r\n * In the latter case, the [completion] continuation is invoked when the coroutine completes with a result or an exception.\r\n *\r\n * The coroutine is started directly in the invoker's thread without going through the [ContinuationInterceptor] that might\r\n * be present in the completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation\r\n * context is established.\r\n *\r\n * This function is designed to be used from inside of [suspendCoroutineUninterceptedOrReturn] to resume the execution of the suspended\r\n * coroutine using a reference to the suspending function.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@InlineOnly\r\npublic actual inline fun <R, T> (suspend R.() -> T).startCoroutineUninterceptedOrReturn(\r\n receiver: R,\r\n completion: Continuation<T>\r\n): Any? = this.asDynamic()(receiver, completion, false)\r\n\r\n\r\n/**\r\n * Creates unintercepted coroutine without receiver and with result type [T].\r\n * This function creates a new, fresh instance of suspendable computation every time it is invoked.\r\n *\r\n * To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation] instance.\r\n * The [completion] continuation is invoked when coroutine completes with result or exception.\r\n *\r\n * This function returns unintercepted continuation.\r\n * Invocation of `resume(Unit)` starts coroutine immediately in the invoker's call stack without going through the\r\n * [ContinuationInterceptor] that might be present in the completion's [CoroutineContext].\r\n * It is the invoker's responsibility to ensure that a proper invocation context is established.\r\n * Note that [completion] of this function may get invoked in an arbitrary context.\r\n *\r\n * [Continuation.intercepted] can be used to acquire the intercepted continuation.\r\n * Invocation of `resume(Unit)` on intercepted continuation guarantees that execution of\r\n * both the coroutine and [completion] happens in the invocation context established by\r\n * [ContinuationInterceptor].\r\n *\r\n * Repeated invocation of any resume function on the resulting continuation corrupts the\r\n * state machine of the coroutine and may result in arbitrary behaviour or exception.\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic actual fun <T> (suspend () -> T).createCoroutineUnintercepted(\r\n completion: Continuation<T>\r\n): Continuation<Unit> =\r\n // Kotlin/JS suspend lambdas have an extra parameter `suspended`\r\n if (this.asDynamic().length == 2) {\r\n // When `suspended` is true the continuation is created, but not executed\r\n this.asDynamic()(completion, true)\r\n } else {\r\n createCoroutineFromSuspendFunction(completion) {\r\n this.asDynamic()(completion)\r\n }\r\n }\r\n\r\n/**\r\n * Creates unintercepted coroutine with receiver type [R] and result type [T].\r\n * This function creates a new, fresh instance of suspendable computation every time it is invoked.\r\n *\r\n * To start executing the created coroutine, invoke `resume(Unit)` on the returned

[Continuation] instance.\r\n * The [completion] continuation is invoked when coroutine completes with result or exception.\r\n *\r\n * This function returns unintercepted continuation.\r\n * Invocation of `resume(Unit)` starts coroutine immediately in the invoker's call stack without going through the\r\n * [ContinuationInterceptor] that might be present in the completion's [CoroutineContext].\r\n * It is the invoker's responsibility to ensure that a proper invocation context is established.\r\n * Note that [completion] of this function may get invoked in an arbitrary context.\r\n *\r\n * [Continuation.intercepted] can be used to acquire the intercepted continuation.\r\n * Invocation of `resume(Unit)` on intercepted continuation guarantees that execution of\r\n * both the coroutine and [completion] happens in the invocation context established by\r\n * [ContinuationInterceptor].\r\n *\r\n * Repeated invocation of any resume function on the resulting continuation corrupts the\r\n * state machine of the coroutine and may result in arbitrary behaviour or exception.\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic actual fun <R, T> (suspend R.() -> T).createCoroutineUnintercepted(\r\n   receiver: R,\r\n   completion: Continuation<T>\r\n): Continuation<Unit> =\r\n   // Kotlin/JS suspend lambdas have an extra parameter `suspended`\r\n   if (this.asDynamic().length == 3) {\r\n   // When `suspended` is true the continuation is created, but not executed\r\n   this.asDynamic()(receiver, completion, true)\r\n   } else {\r\n   createCoroutineFromSuspendFunction(completion) {\r\n   this.asDynamic()(receiver, completion)\r\n   }\r\n   }\r\n\r\n/**\r\n * Intercepts this continuation with [ContinuationInterceptor].\r\n *\r\n * This function shall be used on the immediate result of [createCoroutineUnintercepted] or [suspendCoroutineUninterceptedOrReturn],\r\n * in which case it checks for [ContinuationInterceptor] in the continuation's [context][Continuation.context],\r\n * invokes [ContinuationInterceptor.interceptContinuation], caches and returns the result.\r\n *\r\n * If this function is invoked on other [Continuation] instances it returns `this` continuation unchanged.\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic actual fun <T> Continuation<T>.intercepted(): Continuation<T> =\r\n   (this as? CoroutineImpl)?.intercepted() ?: this\r\n\r\n\r\nprivate inline fun <T> createCoroutineFromSuspendFunction(\r\n   completion: Continuation<T>,\r\n   crossinline block: () -> Any?\r\n): Continuation<Unit> {\r\n   @Suppress(\"UNCHECKED_CAST\")\r\n   return object : CoroutineImpl(completion as Continuation<Any?>) {\r\n   override fun doResume(): Any? {\r\n   exception?.let { throw it }\r\n   return block()\r\n   }\r\n   }\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.js\r\n\r\n// Mirrors signature from JS IR BE\r\n// Used for js.translator/testData/box/number/mulInt32.kt\r\n@library\r\n@JsName(\"imulEmulated\")\r\ninternal fun imul(x: Int, y: Int): Int = definedExternally\r\n\r\ninternal inline fun isArrayish(o: dynamic) = js(\"Kotlin\").isArrayish(o)","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. Use of this source code is governed by the Apache 2.0 license\r\n * that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\n@file:Suppress(\"UNUSED_PARAMETER\")\r\n\r\npackage kotlin.js\r\n\r\n@kotlin.internal.InlineOnly\r\ninternal inline fun jsDeleteProperty(obj: Any, property: Any) {\r\n   js(\"delete obj[property]\")\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\ninternal inline fun jsBitwiseOr(lhs: Any?, rhs: Any?): Int =\r\n   js(\"lhs | rhs\").unsafeCast<Int>()","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\npackage kotlin.math\r\n\r\n/**\r\n * Returns this value with the sign bit same as of the [sign] value.\r\n *\r\n * If [sign] is `NaN` the sign of the result is undefined.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual fun Double.withSign(sign: Double): Double {\r\n   val thisSignBit = js(\"Kotlin\").doubleSignBit(this).unsafeCast<Int>()\r\n   val newSignBit = js(\"Kotlin\").doubleSignBit(sign).unsafeCast<Int>()\r\n   return if (thisSignBit == newSignBit) this else -this\r\n}","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin\r\n\r\n\r\n\r\n/**\r\n * Returns a bit representation of the specified floating-point value as [Long]\r\n * according to the IEEE 754 floating-point \"double format\" bit layout.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@library(\"doubleToBits\")\r\npublic actual fun Double.toBits(): Long = definedExternally\r\n\r\n\r\n/**\r\n * Returns a bit representation of the specified floating-point value as [Long]\r\n *

according to the IEEE 754 floating-point \"double format\" bit layout,\r\n * preserving `NaN` values exact layout.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@library(\"doubleToRawBits\")\r\npublic actual fun Double.toRawBits(): Long = definedExternally\r\n\r\n/**\r\n * Returns the [Double] value corresponding to a given bit representation.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@kotlin.internal.InlineOnly\r\npublic actual inline fun Double.Companion.fromBits(bits: Long): Double = js(\"Kotlin\").doubleFromBits(bits).unsafeCast<Double>()\r\n\r\n/**\r\n * Returns a bit representation of the specified floating-point value as [Int]\r\n * according to the IEEE 754 floating-point \"single format\" bit layout.\r\n *\r\n * Note that in Kotlin/JS [Float] range is wider than \"single format\" bit layout can represent,\r\n * so some [Float] values may overflow, underflow or loose their accuracy after conversion to bits and back.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@library(\"floatToBits\")\r\npublic actual fun Float.toBits(): Int = definedExternally\r\n\r\n/**\r\n * Returns a bit representation of the specified floating-point value as [Int]\r\n * according to the IEEE 754 floating-point \"single format\" bit layout,\r\n * preserving `NaN` values exact layout.\r\n *\r\n * Note that in Kotlin/JS [Float] range is wider than \"single format\" bit layout can represent,\r\n * so some [Float] values may overflow, underflow or loose their accuracy after conversion to bits and back.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@library(\"floatToRawBits\")\r\npublic actual fun Float.toRawBits(): Int = definedExternally\r\n\r\n/**\r\n * Returns the [Float] value corresponding to a given bit representation.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@kotlin.internal.InlineOnly\r\npublic actual inline fun Float.Companion.fromBits(bits: Int): Float = js(\"Kotlin\").floatFromBits(bits).unsafeCast<Float>()\r\n\r\n\r\n\r\ninternal inline fun Long(low: Int, high: Int) = js(\"Kotlin\").Long.fromBits(low, high).unsafeCast<Long>()\r\ninternal inline val Long.low: Int get() = this.asDynamic().getLowBits().unsafeCast<Int>()\r\ninternal inline val Long.high: Int get() = this.asDynamic().getHighBits().unsafeCast<Int>()","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.text\r\n\r\n/**\r\n * Returns a string representation of this [Long] value in the specified [radix].\r\n *\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual fun Long.toString(radix: Int): String = asDynamic().toString(checkRadix(radix))","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.js.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Reverses elements in the list in-place.\n */\npublic actual fun <T> MutableList<T>.reverse(): Unit {\n   val midPoint = (size / 2) - 1\n   if (midPoint < 0) return\n   var reverseIndex = lastIndex\n   for (index in 0..midPoint) {\n   val tmp = this[index]\n   this[index] = this[reverseIndex]\n   this[reverseIndex] = tmp\n   reverseIndex--\n   }\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.js.*\n\n/**\n * Returns a character at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this char sequence.\n *\n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun CharSequence.elementAt(index: Int): Char {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, length: $length}\") }\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.js.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns an element at the given [index] or throws

an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun UIntArray.elementAt(index: Int): UInt {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size}\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun ULongArray.elementAt(index: Int): ULong {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size}\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun UByteArray.elementAt(index: Int): UByte {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size}\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun UShortArray.elementAt(index: Int): UShort {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size}\") }\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun UIntArray.asList(): List<UInt> {\n return object : AbstractList<UInt>(), RandomAccess {\n override val size: Int get() = this@asList.size\n override fun isEmpty(): Boolean = this@asList.isEmpty()\n override fun contains(element: UInt): Boolean = this@asList.contains(element)\n override fun get(index: Int): UInt {\n AbstractList.checkElementIndex(index, size)\n return this@asList[index]\n }\n override fun indexOf(element: UInt): Int {\n if ((element as Any?) !is UInt) return -1\n return this@asList.indexOf(element)\n }\n override fun lastIndexOf(element: UInt): Int {\n if ((element as Any?) !is UInt) return -1\n return this@asList.lastIndexOf(element)\n }\n }\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun ULongArray.asList(): List<ULong> {\n return object : AbstractList<ULong>(), RandomAccess {\n override val size: Int get() = this@asList.size\n override fun isEmpty(): Boolean = this@asList.isEmpty()\n override fun contains(element: ULong): Boolean = this@asList.contains(element)\n override fun get(index: Int): ULong {\n AbstractList.checkElementIndex(index, size)\n return this@asList[index]\n }\n override fun indexOf(element: ULong): Int {\n if ((element as Any?) !is ULong) return -1\n return this@asList.indexOf(element)\n }\n override fun lastIndexOf(element: ULong): Int {\n if ((element as Any?) !is ULong) return -1\n return this@asList.lastIndexOf(element)\n }\n }\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun UByteArray.asList(): List<UByte> {\n return object : AbstractList<UByte>(), RandomAccess {\n override val size: Int get() = this@asList.size\n override fun isEmpty(): Boolean = this@asList.isEmpty()\n override fun contains(element: UByte): Boolean = this@asList.contains(element)\n override fun get(index: Int): UByte {\n AbstractList.checkElementIndex(index, size)\n return this@asList[index]\n }\n override fun indexOf(element: UByte): Int {\n if ((element as Any?) !is UByte) return -1\n return this@asList.indexOf(element)\n }\n override fun lastIndexOf(element: UByte): Int {\n if ((element as Any?) !is UByte) return -1\n return this@asList.lastIndexOf(element)\n }\n }\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun UShortArray.asList(): List<UShort> {\n return object : AbstractList<UShort>(), RandomAccess {\n override val size: Int get() = this@asList.size\n override fun isEmpty(): Boolean = this@asList.isEmpty()\n override fun contains(element: UShort): Boolean = this@asList.contains(element)\n override fun get(index: Int): UShort {\n AbstractList.checkElementIndex(index, size)\n return this@asList[index]\n }\n override fun indexOf(element: UShort): Int {\n if ((element as Any?) !is UShort) return -1\n return this@asList.indexOf(element)\n }\n override fun lastIndexOf(element: UShort): Int {\n if ((element

as Any?) !is UShort) return -1\n return this@asList.lastIndexOf(element)\n }\n }\n}\n\n","@file:Suppress(\"DEPRECATION\")\r\npackage jquery.ui\r\n\r\n\r\n//jquery UI\r\nimport jquery.JQuery\r\nimport kotlin.js.Json\r\n\r\n@Deprecated(\"Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\")\r\npublic inline fun JQuery.buttonset(): JQuery = asDynamic().buttonset()\r\n\r\n@Deprecated(\"Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\")\r\npublic inline fun JQuery.dialog(): JQuery = asDynamic().dialog()\r\n\r\n@Deprecated(\"Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\")\r\npublic inline fun JQuery.dialog(params: Json): JQuery = asDynamic().dialog(params)\r\n\r\n@Deprecated(\"Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\")\r\npublic inline fun JQuery.dialog(mode: String, param: String): Any? = asDynamic().dialog(mode, param)\r\n\r\n@Deprecated(\"Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\")\r\npublic inline fun JQuery.dialog(mode: String): JQuery = asDynamic().dialog(mode)\r\n\r\n@Deprecated(\"Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\")\r\npublic inline fun JQuery.dialog(mode: String, param: String, value: Any?): JQuery = asDynamic().dialog(mode, param, value)\r\n\r\n@Deprecated(\"Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\")\r\npublic inline fun JQuery.button(): JQuery = asDynamic().button()\r\n\r\n@Deprecated(\"Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\")\r\npublic inline fun JQuery.accordion(): JQuery = asDynamic().accordion()\r\n\r\n@Deprecated(\"Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\")\r\npublic inline fun JQuery.draggable(params: Json): JQuery = asDynamic().draggable(params)\r\n\r\n@Deprecated(\"Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\")\r\npublic inline fun JQuery.selectable(): JQuery = asDynamic().selectable()\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.js\r\n\r\nimport kotlin.annotation.AnnotationTarget.*\r\n\r\n@Target(CLASS, FUNCTION, PROPERTY, CONSTRUCTOR, VALUE_PARAMETER, PROPERTY_GETTER, PROPERTY_SETTER)\r\n@Deprecated(\"Use `external` modifier instead\", level = DeprecationLevel.ERROR)\r\npublic annotation class native(public val name: String = \"\")\r\n\r\n@Target(FUNCTION)\r\n@Deprecated(\"Use inline extension function with body using dynamic\")\r\npublic annotation class nativeGetter\r\n\r\n@Target(FUNCTION)\r\n@Deprecated(\"Use inline extension function with body using dynamic\")\r\npublic annotation class nativeSetter\r\n\r\n@Target(FUNCTION)\r\n@Deprecated(\"Use inline extension function with body using dynamic\")\r\npublic annotation class nativeInvoke\r\n\r\n@Target(CLASS, FUNCTION, PROPERTY)\r\ninternal annotation class library(public val name: String = \"\")\r\n\r\n@Target(CLASS)\r\ninternal annotation class marker\r\n\r\n/**\r\n * Gives a declaration (a function, a property or a class) specific name in JavaScript.\r\n *\r\n * This may be useful in the following cases:\r\n *\r\n * * There are two functions for which the compiler gives same name in JavaScript, you can\r\n * mark one with `@JsName(...)` to prevent the compiler from reporting error.\r\n * * You are writing a JavaScript library in Kotlin. The compiler produces mangled names\r\n * for functions with parameters, which is unnatural for usual JavaScript developer.\r\n * You can put `@JsName(...)` on functions you want to be available from JavaScript.\r\n * * For some reason you want to rename declaration, e.g. there's common term in JavaScript\r\n * for a concept provided by the declaration, which in uncommon in Kotlin.\r\n *\r\n * Example:\r\n *\r\n * ``` kotlin\r\n * class Person(val name: String) {\r\n * fun hello() {\r\n * println(\"Hello $name!\")\r\n * }\r\n *\r\n * @JsName(\"helloWithGreeting\")\r\n * fun hello(greeting: String) {\r\n * println(\"$greeting $name!\")\r\n * }\r\n * }\r\n * ```\r\n *\r\n * @property name the name which compiler uses both for declaration itself and for all references to the declaration.\r\n * It's required to denote a valid JavaScript identifier.\r\n *\r\n */\r\n@Retention(AnnotationRetention.BINARY)\r\n@Target(CLASS, FUNCTION, PROPERTY, CONSTRUCTOR, PROPERTY_GETTER, PROPERTY_SETTER)\r\npublic actual annotation class JsName(actual val name: String)\r\n\r\n/**\r\n * Denotes an `external` declaration that must be

imported from native JavaScript library.\r\n *\r\n * The compiler produces the code relevant for the target module system, for example, in case of CommonJS,\r\n * it will import the declaration via the `require(...)` function.\r\n *\r\n * The annotation can be used on top-level external declarations (classes, properties, functions) and files.\r\n * In case of file (which can't be `external`) the following rule applies: all the declarations in\r\n * the file must be `external`. By applying `@JsModule(...)` on a file you tell the compiler to import a JavaScript object\r\n * that contain all the declarations from the file.\r\n *\r\n * Example:\r\n *\r\n * ``` kotlin\r\n * @JsModule(\"jquery\")\r\n * external abstract class JQuery() {\r\n * // some declarations here\r\n * }\r\n *\r\n * @JsModule(\"jquery\")\r\n * external fun JQuery(element: Element): JQuery\r\n * ```\r\n *\r\n * @property import name of a module to import declaration from.\r\n * It is not interpreted by the Kotlin compiler, it's passed as is directly to the target module system.\r\n *\r\n * @see JsNonModule\r\n */\r\n@Retention(AnnotationRetention.BINARY)\r\n@Target(CLASS, PROPERTY, FUNCTION, FILE)\r\npublic annotation class JsModule(val import: String)\r\n\r\n/**\r\n * Denotes an `external` declaration that can be used without module system.\r\n *\r\n * By default, an `external` declaration is available regardless your target module system.\r\n * However, by applying [JsModule] annotation you can make a declaration unavailable to *plain* module system.\r\n * Some JavaScript libraries are distributed both as a standalone downloadable piece of JavaScript and as a module available\r\n * as an npm package.\r\n * To tell the Kotlin compiler to accept both cases, you can augment [JsModule] with the `@JsNonModule` annotation.\r\n *\r\n * For example:\r\n *\r\n * ``` kotlin\r\n * @JsModule(\"jquery\")\r\n * @JsNonModule\r\n * @JsName(\"$\")\r\n * external abstract class JQuery() {\r\n * // some declarations here\r\n * }\r\n *\r\n * @JsModule(\"jquery\")\r\n * @JsNonModule\r\n * @JsName(\"$\")\r\n * external fun JQuery(element: Element): JQuery\r\n * ```\r\n *\r\n * @see JsModule\r\n */\r\n@Retention(AnnotationRetention.BINARY)\r\n@Target(CLASS, PROPERTY, FUNCTION, FILE)\r\npublic annotation class JsNonModule\r\n\r\n/**\r\n * Adds prefix to `external` declarations in a source file.\r\n *\r\n * JavaScript does not have concept of packages (namespaces). They are usually emulated by nested objects.\r\n * The compiler turns references to `external` declarations either to plain unprefixed names (in case of *plain* modules)\r\n * or to plain imports.\r\n * However, if a JavaScript library provides its declarations in packages, you won't be satisfied with this.\r\n * You can tell the compiler to generate additional prefix before references to `external` declarations using the `@JsQualifier(...)`\r\n * annotation.\r\n *\r\n * Note that a file marked with the `@JsQualifier(...)` annotation can't contain non-`external` declarations.\r\n *\r\n * Example:\r\n *\r\n * ```\r\n * @file:JsQualifier(\"my.jsPackageName\")\r\n * package some.kotlinPackage\r\n *\r\n * external fun foo(x: Int)\r\n *\r\n * external fun bar(): String\r\n * ```\r\n *\r\n * @property value the qualifier to add to the declarations in the generated code.\r\n * It must be a sequence of valid JavaScript identifiers separated by the `.` character.\r\n * Examples of valid qualifiers are: `foo`, `bar.Baz`, `_.$0.f`.\r\n *\r\n * @see JsModule\r\n */\r\n@Retention(AnnotationRetention.BINARY)\r\n@Target(AnnotationTarget.FILE)\r\npublic annotation class JsQualifier(val value: String)\r\n\r\n/**\r\n * Exports top-level declaration.\r\n *\r\n * Used in future IR-based backend.\r\n * Has no effect in current JS backend.\r\n */\r\n@Retention(AnnotationRetention.BINARY)\r\n@Target(CLASS, PROPERTY, FUNCTION, FILE)\r\npublic annotation class JsExport\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.jvm\r\n\r\n// these are used in common generated code in stdlib\r\n\r\n// TODO: find how to deprecate these ones\r\n\r\n@Target(AnnotationTarget.FIELD)\r\n@Retention(AnnotationRetention.SOURCE)\r\npublic actual annotation class Volatile\r\n\r\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY_GETTER, AnnotationTarget.PROPERTY_SETTER)\r\n@Retention(AnnotationRetention.SOURCE)\r\npublic actual annotation class Synchronized\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.collections\r\n\r\n/**\r\n * Provides a skeletal implementation of the [MutableCollection] interface.\r\n *\r\n * @param E the type of elements contained in the collection. The collection is invariant on its element type.\r\n */\r\npublic actual abstract class AbstractMutableCollection<E>

protected actual constructor() : AbstractCollection<E>(), MutableCollection<E> {\r\n\r\n   actual abstract override fun add(element: E): Boolean\r\n\r\n   actual override fun remove(element: E): Boolean {\r\n   val iterator = iterator()\r\n   while (iterator.hasNext()) {\r\n   if (iterator.next() == element) {\r\n   iterator.remove()\r\n   return true\r\n   }\r\n   }\r\n   return false\r\n   }\r\n\r\n   actual override fun addAll(elements: Collection<E>): Boolean {\r\n   var modified = false\r\n   for (element in elements) {\r\n   if (add(element)) modified = true\r\n   }\r\n   return modified\r\n   }\r\n\r\n   actual override fun removeAll(elements: Collection<E>): Boolean = (this as MutableIterable<E>).removeAll { it in elements }\r\n   actual override fun retainAll(elements: Collection<E>): Boolean = (this as MutableIterable<E>).removeAll { it !in elements }\r\n\r\n   actual override fun clear(): Unit {\r\n   val iterator = this.iterator()\r\n   while (iterator.hasNext()) {\r\n   iterator.next()\r\n   iterator.remove()\r\n   }\r\n   }\r\n\r\n   @JsName(\"toJSON\")\r\n   open fun toJSON(): Any = this.toArray()\r\n}\r\n\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n/*\r\n * Based on GWT AbstractList\r\n * Copyright 2007 Google Inc.\r\n*/\r\n\r\n\r\n\r\npackage kotlin.collections\r\n\r\n/**\r\n * Provides a skeletal implementation of the [MutableList] interface.\r\n *\r\n * @param E the type of elements contained in the list. The list is invariant on its element type.\r\n */\r\npublic actual abstract class AbstractMutableList<E> protected actual constructor() : AbstractMutableCollection<E>(), MutableList<E> {\r\n   protected var modCount: Int = 0\r\n\r\n   abstract override fun add(index: Int, element: E): Unit\r\n   abstract override fun removeAt(index: Int): E\r\n   abstract override fun set(index: Int, element: E): E\r\n\r\n   /**\r\n   * Adds the specified element to the end of this list.\r\n   *\r\n   * @return `true` because the list is always modified as the result of this operation.\r\n   */\r\n   actual override fun add(element: E): Boolean {\r\n   add(size, element)\r\n   return true\r\n   }\r\n\r\n   actual override fun addAll(index: Int, elements: Collection<E>): Boolean {\r\n   var _index = index\r\n   var changed = false\r\n   for (e in elements) {\r\n   add(_index++, e)\r\n   changed = true\r\n   }\r\n   return changed\r\n   }\r\n\r\n   actual override fun clear() {\r\n   removeRange(0, size)\r\n   }\r\n\r\n   actual override fun removeAll(elements: Collection<E>): Boolean = removeAll { it in elements }\r\n   actual override fun retainAll(elements: Collection<E>): Boolean = removeAll { it !in elements }\r\n\r\n\r\n\r\n   actual override fun iterator(): MutableIterator<E> = IteratorImpl()\r\n\r\n\r\n   actual override fun contains(element: E): Boolean = indexOf(element) >= 0\r\n\r\n\r\n   actual override fun indexOf(element: E): Int {\r\n   for (index in 0..lastIndex) {\r\n   if (get(index) == element) {\r\n   return index\r\n   }\r\n   }\r\n   return -1\r\n   }\r\n\r\n\r\n   actual override fun lastIndexOf(element: E): Int {\r\n   for (index in lastIndex downTo 0) {\r\n   if (get(index) == element) {\r\n   return index\r\n   }\r\n   }\r\n   return -1\r\n   }\r\n\r\n\r\n   actual override fun listIterator(): MutableListIterator<E> = listIterator(0)\r\n   actual override fun listIterator(index: Int): MutableListIterator<E> = ListIteratorImpl(index)\r\n\r\n\r\n\r\n\r\n   actual override fun subList(fromIndex: Int, toIndex: Int): MutableList<E> = SubList(this, fromIndex, toIndex)\r\n\r\n\r\n   /**\r\n   * Removes the range of elements from this list starting from [fromIndex] and ending with but not including [toIndex].\r\n   */\r\n   protected open fun removeRange(fromIndex: Int, toIndex: Int) {\r\n   val iterator = listIterator(fromIndex)\r\n   repeat(toIndex - fromIndex) {\r\n   iterator.next()\r\n   iterator.remove()\r\n   }\r\n   }\r\n\r\n\r\n   /**\r\n   * Compares this list with another list instance with the ordered structural equality.\r\n   *\r\n   * @return true, if [other] instance is a [List] of the same size, which contains the same elements in the same order.\r\n   */\r\n   override fun equals(other: Any?): Boolean {\r\n   if (other === this) return true\r\n   if (other !is List<*>) return false\r\n\r\n\r\n   return AbstractList.orderedEquals(this, other)\r\n   }\r\n\r\n\r\n   /**\r\n   * Returns the hash code value for this list.\r\n   */\r\n   override fun hashCode(): Int = AbstractList.orderedHashCode(this)\r\n\r\n\r\n\r\n\r\n   private open inner class IteratorImpl : MutableIterator<E> {\r\n   /** the index of the item that will be returned on the next call to [next]`()` */\r\n   protected var index = 0\r\n   /** the index of the item that was returned on the previous call to [next]`()`\r\n   * or [ListIterator.previous]`()` (for `ListIterator`),\r\n   * -1 if no such item exists\r\n   */\r\n   protected var last = -1\r\n\r\n\r\n   override fun hasNext(): Boolean = index < size\r\n\r\n\r\n   override fun next(): E {\r\n   if (!hasNext()) throw NoSuchElementException()\r\n   last = index++\r\n   return get(last)\r\n   }\r\n\r\n\r\n   override fun remove() {\r\n   check(last != -1) { \"Call next() or

previous() before removing element from the iterator.\" }\r\n\r\n removeAt(last)\r\n index = last\r\n last = -1\r\n }\r\n }\r\n\r\n /**\r\n * Implementation of `MutableListIterator` for abstract lists.\r\n */\r\n private inner class ListIteratorImpl(index: Int) : IteratorImpl(), MutableListIterator<E> {\r\n\r\n init {\r\n AbstractList.checkPositionIndex(index, this@AbstractMutableList.size)\r\n this.index = index\r\n }\r\n\r\n override fun hasPrevious(): Boolean = index > 0\r\n\r\n override fun nextIndex(): Int = index\r\n\r\n override fun previous(): E {\r\n if (!hasPrevious()) throw NoSuchElementException()\r\n\r\n last = --index\r\n return get(last)\r\n }\r\n\r\n override fun previousIndex(): Int = index - 1\r\n\r\n override fun add(element: E) {\r\n add(index, element)\r\n index++\r\n last = -1\r\n }\r\n\r\n override fun set(element: E) {\r\n check(last != -1) { \"Call next() or previous() before updating element value with the iterator.\" }\r\n this@AbstractMutableList[last] = element\r\n }\r\n }\r\n\r\n private class SubList<E>(private val list: AbstractMutableList<E>, private val fromIndex: Int, toIndex: Int) : AbstractMutableList<E>(), RandomAccess {\r\n private var _size: Int = 0\r\n\r\n init {\r\n AbstractList.checkRangeIndexes(fromIndex, toIndex, list.size)\r\n this._size = toIndex - fromIndex\r\n }\r\n\r\n override fun add(index: Int, element: E) {\r\n AbstractList.checkPositionIndex(index, _size)\r\n\r\n list.add(fromIndex + index, element)\r\n _size++\r\n }\r\n\r\n override fun get(index: Int): E {\r\n AbstractList.checkElementIndex(index, _size)\r\n\r\n return list[fromIndex + index]\r\n }\r\n\r\n override fun removeAt(index: Int): E {\r\n AbstractList.checkElementIndex(index, _size)\r\n\r\n val result = list.removeAt(fromIndex + index)\r\n _size--\r\n return result\r\n }\r\n\r\n override fun set(index: Int, element: E): E {\r\n AbstractList.checkElementIndex(index, _size)\r\n\r\n return list.set(fromIndex + index, element)\r\n }\r\n\r\n override val size: Int get() = _size\r\n }\r\n\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n/*\r\n * Based on GWT AbstractMap\r\n * Copyright 2007 Google Inc.\r\n */\r\n\r\npackage kotlin.collections\r\n\r\n/**\r\n * Provides a skeletal implementation of the [MutableMap] interface.\r\n *\r\n * The implementor is required to implement [entries] property, which should return mutable set of map entries, and [put] function.\r\n *\r\n * @param K the type of map keys. The map is invariant on its key type.\r\n * @param V the type of map values. The map is invariant on its value type.\r\n */\r\npublic actual abstract class AbstractMutableMap<K, V> protected actual constructor() : AbstractMap<K, V>(), MutableMap<K, V> {\r\n\r\n /**\r\n * A mutable [Map.Entry] shared by several [Map] implementations.\r\n */\r\n internal open class SimpleEntry<K, V>(override val key: K, value: V) : MutableMap.MutableEntry<K, V> {\r\n constructor(entry: Map.Entry<K, V>) : this(entry.key, entry.value)\r\n\r\n private var _value = value\r\n\r\n override val value: V get() = _value\r\n\r\n override fun setValue(newValue: V): V {\r\n val oldValue = this._value\r\n this._value = newValue\r\n return oldValue\r\n }\r\n\r\n override fun hashCode(): Int = entryHashCode(this)\r\n override fun toString(): String = entryToString(this)\r\n override fun equals(other: Any?): Boolean = entryEquals(this, other)\r\n\r\n }\r\n\r\n actual override fun clear() {\r\n entries.clear()\r\n }\r\n\r\n private var _keys: MutableSet<K>? = null\r\n actual override val keys: MutableSet<K>\r\n get() {\r\n if (_keys == null) {\r\n _keys = object : AbstractMutableSet<K>() {\r\n override fun add(element: K): Boolean = throw UnsupportedOperationException(\"Add is not supported on keys\")\r\n override fun clear() {\r\n this@AbstractMutableMap.clear()\r\n }\r\n\r\n override operator fun contains(element: K): Boolean = containsKey(element)\r\n\r\n override operator fun iterator(): MutableIterator<K> {\r\n val entryIterator = entries.iterator()\r\n return object : MutableIterator<K> {\r\n override fun hasNext(): Boolean = entryIterator.hasNext()\r\n override fun next(): K = entryIterator.next().key\r\n override fun remove() = entryIterator.remove()\r\n }\r\n }\r\n\r\n override fun remove(element: K): Boolean {\r\n if (containsKey(element)) {\r\n this@AbstractMutableMap.remove(element)\r\n return true\r\n }\r\n return false\r\n }\r\n\r\n override val size: Int get() = this@AbstractMutableMap.size\r\n }\r\n }\r\n return _keys!!\r\n }\r\n\r\n

actual abstract override fun put(key: K, value: V): V?\r\n\r\n   actual override fun putAll(from: Map<out K, V>) {\r\n   for ((key, value) in from) {\r\n   put(key, value)\r\n   }\r\n   }\r\n\r\n   private var _values: MutableCollection<V>? = null\r\n   actual override val values: MutableCollection<V>\r\n   get() {\r\n   if (_values == null) {\r\n   _values = object : AbstractMutableCollection<V>() {\r\n   override fun add(element: V): Boolean = throw UnsupportedOperationException(\"Add is not supported on values\")\r\n   override fun clear() = this@AbstractMutableMap.clear()\r\n\r\n\r\n   override operator fun contains(element: V): Boolean = containsValue(element)\r\n\r\n\r\n   override operator fun iterator(): MutableIterator<V> {\r\n   val entryIterator = entries.iterator()\r\n   return object : MutableIterator<V> {\r\n   override fun hasNext(): Boolean = entryIterator.hasNext()\r\n   override fun next(): V = entryIterator.next().value\r\n   override fun remove() = entryIterator.remove()\r\n   }\r\n   }\r\n\r\n\r\n   override val size: Int get() = this@AbstractMutableMap.size\r\n\r\n\r\n   // TODO: should we implement them this way? Currently it's unspecified in JVM\r\n   override fun equals(other: Any?): Boolean {\r\n   if (this === other) return true\r\n   if (other !is Collection<*>) return false\r\n   return AbstractList.orderedEquals(this, other)\r\n   }\r\n\r\n\r\n   override fun hashCode(): Int = AbstractList.orderedHashCode(this)\r\n   }\r\n   }\r\n   return _values!!\r\n   }\r\n\r\n   actual override fun remove(key: K): V? {\r\n   val iter = entries.iterator()\r\n   while (iter.hasNext()) {\r\n   val entry = iter.next()\r\n   val k = entry.key\r\n   if (key == k) {\r\n   val value = entry.value\r\n   iter.remove()\r\n   return value\r\n   }\r\n   }\r\n   return null\r\n   }\r\n\r\n\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\npackage kotlin.collections\r\n\r\n/**\r\n * Provides a skeletal implementation of the [MutableSet] interface.\r\n *\r\n * @param E the type of elements contained in the set. The set is invariant on its element type.\r\n */\r\npublic actual abstract class AbstractMutableSet<E> protected actual constructor() : AbstractMutableCollection<E>(), MutableSet<E> {\r\n\r\n   /**\r\n   * Compares this set with another set instance with the unordered structural equality.\r\n   *\r\n   * @return `true`, if [other] instance is a [Set] of the same size, all elements of which are contained in this set.\r\n   */\r\n   override fun equals(other: Any?): Boolean {\r\n   if (other === this) return true\r\n   if (other !is Set<*>) return false\r\n   return AbstractSet.setEquals(this, other)\r\n   }\r\n\r\n   /**\r\n   * Returns the hash code value for this set.\r\n   */\r\n   override fun hashCode(): Int = AbstractSet.unorderedHashCode(this)\r\n\r\n}","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.collections\r\n\r\n/**\r\n * Provides a [MutableList] implementation, which uses a resizable array as its backing storage.\r\n *\r\n * This implementation doesn't provide a way to manage capacity, as backing JS array is resizeable itself.\r\n * There is no speed advantage to pre-allocating array sizes in JavaScript, so this implementation does not include any of the\r\n * capacity and \"growth increment\" concepts.\r\n */\r\npublic actual open class ArrayList<E> internal constructor(private var array: Array<Any?>) : AbstractMutableList<E>(), MutableList<E>, RandomAccess {\r\n\r\n   /**\r\n   * Creates an empty [ArrayList].\r\n   */\r\n   public actual constructor() : this(emptyArray()) {}\r\n\r\n   /**\r\n   * Creates an empty [ArrayList].\r\n   * @param initialCapacity initial capacity (ignored)\r\n   */\r\n   @Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\n   public actual constructor(initialCapacity: Int = 0) : this(emptyArray()) {}\r\n\r\n   /**\r\n   * Creates an [ArrayList] filled from the [elements] collection.\r\n   */\r\n   public actual constructor(elements: Collection<E>) : this(elements.toTypedArray<Any?>()) {}\r\n\r\n   /** Does nothing in this ArrayList implementation. */\r\n   public actual fun trimToSize() {}\r\n\r\n   /** Does nothing in this ArrayList implementation. */\r\n   public actual fun ensureCapacity(minCapacity: Int) {}\r\n\r\n   actual override val size: Int get() = array.size\r\n\r\n   @Suppress(\"UNCHECKED_CAST\")\r\n   actual override fun get(index: Int): E = array[rangeCheck(index)] as E\r\n\r\n   actual override fun set(index: Int, element: E): E {\r\n   rangeCheck(index)\r\n\r\n   @Suppress(\"UNCHECKED_CAST\")\r\n   return array[index].apply { array[index] = element } as E\r\n

}\r\n\r\n   actual override fun add(element: E): Boolean {\r\n   array.asDynamic().push(element)\r\n   modCount++\r\n   return true\r\n   }\r\n\r\n   actual override fun add(index: Int, element: E): Unit {\r\n   array.asDynamic().splice(insertionRangeCheck(index), 0, element)\r\n   modCount++\r\n   }\r\n\r\n   actual override fun addAll(elements: Collection<E>): Boolean {\r\n   if (elements.isEmpty()) return false\r\n\r\n   array += elements.toTypedArray<Any?>()\r\n   modCount++\r\n   return true\r\n   }\r\n\r\n   actual override fun addAll(index: Int, elements: Collection<E>): Boolean {\r\n   insertionRangeCheck(index)\r\n\r\n   if (index == size) return addAll(elements)\r\n   if (elements.isEmpty()) return false\r\n   when (index) {\r\n   size -> return addAll(elements)\r\n   0 -> array = elements.toTypedArray<Any?>() + array\r\n   else -> array = array.copyOfRange(0, index).asDynamic().concat(elements.toTypedArray<Any?>(), array.copyOfRange(index, size))\r\n   }\r\n\r\n   modCount++\r\n   return true\r\n   }\r\n\r\n   actual override fun removeAt(index: Int): E {\r\n   rangeCheck(index)\r\n   modCount++\r\n   return if (index == lastIndex)\r\n   array.asDynamic().pop()\r\n   else\r\n   array.asDynamic().splice(index, 1)[0]\r\n   }\r\n\r\n   actual override fun remove(element: E): Boolean {\r\n   for (index in array.indices) {\r\n   if (array[index] == element) {\r\n   array.asDynamic().splice(index, 1)\r\n   modCount++\r\n   return true\r\n   }\r\n   }\r\n   return false\r\n   }\r\n\r\n   override fun removeRange(fromIndex: Int, toIndex: Int) {\r\n   modCount++\r\n   array.asDynamic().splice(fromIndex, toIndex - fromIndex)\r\n   }\r\n\r\n   actual override fun clear() {\r\n   array = emptyArray()\r\n   modCount++\r\n   }\r\n\r\n\r\n\r\n   actual override fun indexOf(element: E): Int = array.indexOf(element)\r\n\r\n   actual override fun lastIndexOf(element: E): Int = array.lastIndexOf(element)\r\n\r\n   override fun toString() = arrayToString(array)\r\n   override fun toArray(): Array<Any?> = js(\"[]\").slice.call(array)\r\n\r\n\r\n\r\n   private fun rangeCheck(index: Int) = index.apply {\r\n   AbstractList.checkElementIndex(index, size)\r\n   }\r\n\r\n   private fun insertionRangeCheck(index: Int) = index.apply {\r\n   AbstractList.checkPositionIndex(index, size)\r\n   }\r\n}","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\npackage kotlin.collections\r\n\r\n\r\n\r\n@UseExperimental(ExperimentalUnsignedTypes::class)\r\n@SinceKotlin(\"1.3\")\r\n@kotlin.js.JsName(\"contentDeepHashCodeImpl\")\r\ninternal fun <T> Array<out T>.contentDeepHashCodeImpl(): Int {\r\n   var result = 1\r\n   for (element in this) {\r\n   val elementHash = when {\r\n   element == null -> 0\r\n   isArrayish(element) -> (element.unsafeCast<Array<*>>()).contentDeepHashCodeImpl()\r\n\r\n\r\n   element is UByteArray   -> element.contentHashCode()\r\n   element is UShortArray -> element.contentHashCode()\r\n   element is UIntArray   -> element.contentHashCode()\r\n   element is ULongArray   -> element.contentHashCode()\r\n\r\n\r\n   else   -> element.hashCode()\r\n   }\r\n\r\n\r\n   result = 31 * result + elementHash\r\n   }\r\n   return result\r\n}","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\npackage kotlin.collections\r\n\r\n\r\ninternal fun <T> sortArrayWith(array: Array<out T>, comparison: (T, T) -> Int) {\r\n   if (getStableSortingIsSupported()) {\r\n   array.asDynamic().sort(comparison)\r\n   } else {\r\n   mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, Comparator(comparison))\r\n   }\r\n}\r\n\r\n\r\ninternal fun <T> sortArrayWith(array: Array<out T>, comparator: Comparator<in T>) {\r\n   if (getStableSortingIsSupported()) {\r\n   val comparison = { a: T, b: T -> comparator.compare(a, b) }\r\n   array.asDynamic().sort(comparison)\r\n   } else {\r\n   mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, comparator)\r\n   }\r\n}\r\n\r\n\r\ninternal fun <T : Comparable<T>> sortArray(array: Array<out T>) {\r\n   if (getStableSortingIsSupported()) {\r\n   val comparison = { a: T, b: T -> a.compareTo(b) }\r\n   array.asDynamic().sort(comparison)\r\n   } else {\r\n   mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, naturalOrder())\r\n   }\r\n}\r\n\r\n\r\nprivate var _stableSortingIsSupported: Boolean? = null\r\n\r\nprivate fun getStableSortingIsSupported(): Boolean {\r\n   _stableSortingIsSupported?.let { return it }\r\n   _stableSortingIsSupported = false\r\n\r\n\r\n   val array = js(\"[]\").unsafeCast<Array<Int>>()\r\n   // known implementations may use stable sort for arrays of up to 512 elements\r\n   // so we create slightly more elements to test stability\r\n   for (index in 0 until 600) array.asDynamic().push(index)\r\n   val comparison = { a: Int, b: Int -> (a and 3) - (b and 3) }\r\n

array.asDynamic().sort(comparison)\r\n for (index in 1 until array.size) {\r\n val a = array[index - 1]\r\n val b = array[index]\r\n if ((a and 3) == (b and 3) && a >= b) return false\r\n }\r\n _stableSortingIsSupported = true\r\n return true\r\n}\r\n\r\n\r\n\r\nprivate fun <T> mergeSort(array: Array<T>, start: Int, endInclusive: Int, comparator: Comparator<in T>) {\r\n val buffer = arrayOfNulls<Any?>(array.size).unsafeCast<Array<T>>()\r\n val result = mergeSort(array, buffer, start, endInclusive, comparator)\r\n if (result !== array) {\r\n result.forEachIndexed { i, v -> array[i] = v }\r\n }\r\n}\r\n\r\n// Both start and end are inclusive indices.\r\nprivate fun <T> mergeSort(array: Array<T>, buffer: Array<T>, start: Int, end: Int, comparator: Comparator<in T>): Array<T> {\r\n if (start == end) {\r\n return array\r\n }\r\n\r\n val median = (start + end) / 2\r\n val left = mergeSort(array, buffer, start, median, comparator)\r\n val right = mergeSort(array, buffer, median + 1, end, comparator)\r\n\r\n val target = if (left === buffer) array else buffer\r\n\r\n // Merge.\r\n var leftIndex = start\r\n var rightIndex = median + 1\r\n for (i in start..end) {\r\n when {\r\n leftIndex <= median && rightIndex <= end -> {\r\n val leftValue = left[leftIndex]\r\n val rightValue = right[rightIndex]\r\n\r\n if (comparator.compare(leftValue, rightValue) <= 0) {\r\n target[i] = leftValue\r\n leftIndex++\r\n } else {\r\n target[i] = rightValue\r\n rightIndex++\r\n }\r\n }\r\n leftIndex <= median -> {\r\n target[i] = left[leftIndex]\r\n leftIndex++\r\n }\r\n else /* rightIndex <= end */ -> {\r\n target[i] = right[rightIndex]\r\n rightIndex++\r\n Unit // TODO: Fix KT-31506\r\n }\r\n }\r\n }\r\n\r\n return target\r\n}","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\npackage kotlin.collections\r\n\r\ninternal interface EqualityComparator {\r\n /**\r\n * Subclasses must override to return a value indicating\r\n * whether or not two keys or values are equal.\r\n */\r\n abstract fun equals(value1: Any?, value2: Any?): Boolean\r\n\r\n\r\n /**\r\n * Subclasses must override to return the hash code of a given key.\r\n */\r\n abstract fun getHashCode(value: Any?): Int\r\n\r\n\r\n\r\n object HashCode : EqualityComparator {\r\n override fun equals(value1: Any?, value2: Any?): Boolean = value1 == value2\r\n\r\n override fun getHashCode(value: Any?): Int = value?.hashCode() ?: 0\r\n }\r\n}","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n/*\r\n * Based on GWT AbstractHashMap\r\n * Copyright 2008 Google Inc.\r\n */\r\n\r\n\r\npackage kotlin.collections\r\n\r\nimport kotlin.collections.MutableMap.MutableEntry\r\n\r\n/**\r\n * Hash table based implementation of the [MutableMap] interface.\r\n *\r\n * This implementation makes no guarantees regarding the order of enumeration of [keys], [values] and [entries] collections.\r\n */\r\npublic actual open class HashMap<K, V> : AbstractMutableMap<K, V>, MutableMap<K, V> {\r\n\r\n private inner class EntrySet : AbstractMutableSet<MutableEntry<K, V>>() {\r\n\r\n override fun add(element: MutableEntry<K, V>): Boolean = throw UnsupportedOperationException(\"Add is not supported on entries\")\r\n override fun clear() {\r\n this@HashMap.clear()\r\n }\r\n\r\n override operator fun contains(element: MutableEntry<K, V>): Boolean = containsEntry(element)\r\n\r\n override operator fun iterator(): MutableIterator<MutableEntry<K, V>> = internalMap.iterator()\r\n\r\n override fun remove(element: MutableEntry<K, V>): Boolean {\r\n if (contains(element)) {\r\n this@HashMap.remove(element.key)\r\n return true\r\n }\r\n return false\r\n }\r\n\r\n override val size: Int get() = this@HashMap.size\r\n }\r\n\r\n\r\n\r\n /**\r\n * Internal implementation of the map: either string-based or hashcode-based.\r\n */\r\n private val internalMap: InternalMap<K, V>\r\n\r\n private val equality: EqualityComparator\r\n\r\n internal constructor(internalMap: InternalMap<K, V>) : super() {\r\n this.internalMap = internalMap\r\n this.equality = internalMap.equality\r\n }\r\n\r\n /**\r\n * Constructs an empty [HashMap] instance.\r\n */\r\n actual constructor() : this(InternalHashCodeMap(EqualityComparator.HashCode))\r\n\r\n /**\r\n * Constructs an empty [HashMap] instance.\r\n *\r\n * @param initialCapacity the initial capacity (ignored)\r\n * @param loadFactor the load factor (ignored)\r\n *\r\n * @throws IllegalArgumentException if the initial capacity or load factor are negative\r\n */\r\n @Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\n actual

constructor(initialCapacity: Int, loadFactor: Float = 0.0f) : this() {\r\n // This implementation of HashMap has no need of load factors or capacities.\r\n require(initialCapacity >= 0) { \"Negative initial capacity: $initialCapacity\" }\r\n require(loadFactor >= 0) { \"Non-positive load factor: $loadFactor\" }\r\n }\r\n\r\n actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\r\n\r\n\r\n /**\r\n * Constructs an instance of [HashMap] filled with the contents of the specified [original] map.\r\n */\r\n actual constructor(original: Map<out K, V>) : this() {\r\n this.putAll(original)\r\n }\r\n\r\n actual override fun clear() {\r\n internalMap.clear()\r\n// structureChanged(this)\r\n }\r\n\r\n actual override fun containsKey(key: K): Boolean = internalMap.contains(key)\r\n\r\n actual override fun containsValue(value: V): Boolean = internalMap.any { equality.equals(it.value, value) }\r\n\r\n private var _entries: MutableSet<MutableMap.MutableEntry<K, V>>? = null\r\n actual override val entries: MutableSet<MutableMap.MutableEntry<K, V>>\r\n get() {\r\n if (_entries == null) {\r\n _entries = createEntrySet()\r\n }\r\n return _entries!!\r\n }\r\n\r\n protected open fun createEntrySet(): MutableSet<MutableMap.MutableEntry<K, V>> = EntrySet()\r\n\r\n actual override operator fun get(key: K): V? = internalMap.get(key)\r\n\r\n actual override fun put(key: K, value: V): V? = internalMap.put(key, value)\r\n\r\n actual override fun remove(key: K): V? = internalMap.remove(key)\r\n\r\n actual override val size: Int get() = internalMap.size\r\n\r\n}\r\n\r\n/**\r\n * Constructs the specialized implementation of [HashMap] with [String] keys, which stores the keys as properties of\r\n * JS object without hashing them.\r\n */\r\npublic fun <V> stringMapOf(vararg pairs: Pair<String, V>): HashMap<String, V> {\r\n return HashMap<String, V>(InternalStringMap(EqualityComparator.HashCode)).apply { putAll(pairs) }\r\n}","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n/*\r\n * Based on GWT HashSet\r\n * Copyright 2008 Google Inc.\r\n */\r\n\r\npackage kotlin.collections\r\n\r\n/**\r\n * The implementation of the [MutableSet] interface, backed by a [HashMap] instance.\r\n */\r\npublic actual open class HashSet<E> : AbstractMutableSet<E>, MutableSet<E> {\r\n\r\n private val map: HashMap<E, Any>\r\n\r\n /**\r\n * Constructs a new empty [HashSet].\r\n */\r\n actual constructor() {\r\n map = HashMap<E, Any>()\r\n }\r\n\r\n /**\r\n * Constructs a new [HashSet] filled with the elements of the specified collection.\r\n */\r\n actual constructor(elements: Collection<E>) {\r\n map = HashMap<E, Any>(elements.size)\r\n addAll(elements)\r\n }\r\n\r\n /**\r\n * Constructs a new empty [HashSet].\r\n *\r\n * @param initialCapacity the initial capacity (ignored)\r\n * @param loadFactor the load factor (ignored)\r\n *\r\n * @throws IllegalArgumentException if the initial capacity or load factor are negative\r\n */\r\n @Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\n actual constructor(initialCapacity: Int, loadFactor: Float = 0.0f) {\r\n map = HashMap<E, Any>(initialCapacity, loadFactor)\r\n }\r\n\r\n actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\r\n\r\n /**\r\n * Protected constructor to specify the underlying map. This is used by\r\n * LinkedHashSet.\r\n\r\n * @param map underlying map to use.\r\n */\r\n internal constructor(map: HashMap<E, Any>) {\r\n this.map = map\r\n }\r\n\r\n actual override fun add(element: E): Boolean {\r\n val old = map.put(element, this)\r\n return old == null\r\n }\r\n\r\n actual override fun clear() {\r\n map.clear()\r\n }\r\n\r\n// public override fun clone(): Any {\r\n// return HashSet<E>(this)\r\n// }\r\n\r\n actual override operator fun contains(element: E): Boolean = map.containsKey(element)\r\n\r\n actual override fun isEmpty(): Boolean = map.isEmpty()\r\n\r\n actual override fun iterator(): MutableIterator<E> = map.keys.iterator()\r\n\r\n actual override fun remove(element: E): Boolean = map.remove(element) != null\r\n\r\n actual override val size: Int get() = map.size\r\n\r\n}\r\n\r\n/**\r\n * Creates a new instance of the specialized implementation of [HashSet] with the specified [String] elements,\r\n * which elements the keys as properties of JS object without hashing them.\r\n */\r\npublic fun stringSetOf(vararg elements: String): HashSet<String> {\r\n return HashSet(stringMapOf<Any>()).apply { addAll(elements) }\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n/*\r\n * Based on GWT InternalHashCodeMap\r\n * Copyright 2008 Google Inc.\r\n */\r\n\r\npackage kotlin.collections\r\n\r\nimport

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kotlin.collections.MutableMap.MutableEntry\r\nimport kotlin.collections.AbstractMutableMap.SimpleEntry\r\n\r\n/**\r\n * A simple wrapper around JavaScriptObject to provide [java.util.Map]-like semantics for any\r\n * key type.\r\n *\r\n *\r\n * Implementation notes:\r\n *\r\n *\r\n * A key's hashCode is the index in backingMap which should contain that key. Since several keys may\r\n * have the same hash, each value in hashCodeMap is actually an array containing all entries whose\r\n * keys share the same hash.\r\n */\r\ninternal class InternalHashCodeMap<K, V>(override val equality: EqualityComparator) : InternalMap<K, V> {\r\n\r\n    private var backingMap: dynamic = createJsMap()\r\n    override var size: Int = 0\r\n        private set\r\n\r\n    override fun put(key: K, value: V): V? {\r\n        val hashCode = equality.getHashCode(key)\r\n        val chainOrEntry = getChainOrEntryOrNull(hashCode)\r\n        if (chainOrEntry == null) {\r\n            // This is a new chain, put it to the map.\r\n            backingMap[hashCode] = SimpleEntry(key, value)\r\n        } else {\r\n            if (chainOrEntry !is Array<*>) {\r\n                // It is an entry\r\n                val entry: SimpleEntry<K, V> = chainOrEntry\r\n                if (equality.equals(entry.key, key)) {\r\n                    return entry.setValue(value)\r\n                } else {\r\n                    backingMap[hashCode] = arrayOf(entry, SimpleEntry(key, value))\r\n                    size++\r\n                    return null\r\n                }\r\n            } else {\r\n                // Chain already exists, perhaps key also exists.\r\n                val chain: Array<MutableEntry<K, V>> = chainOrEntry\r\n                val entry = chain.findEntryInChain(key)\r\n                if (entry != null) {\r\n                    return entry.setValue(value)\r\n                }\r\n                chain.asDynamic().push(SimpleEntry(key, value))\r\n            }\r\n        }\r\n        size++\r\n//        structureChanged(host)\r\n        return null\r\n    }\r\n\r\n    override fun remove(key: K): V? {\r\n        val hashCode = equality.getHashCode(key)\r\n        val chainOrEntry = getChainOrEntryOrNull(hashCode) ?: return null\r\n        if (chainOrEntry !is Array<*>) {\r\n            val entry: MutableEntry<K, V> = chainOrEntry\r\n            if (equality.equals(entry.key, key)) {\r\n                jsDeleteProperty(backingMap, hashCode)\r\n                size--\r\n                return entry.value\r\n            } else {\r\n                return null\r\n            }\r\n        } else {\r\n            val chain: Array<MutableEntry<K, V>> = chainOrEntry\r\n            for (index in chain.indices) {\r\n                val entry = chain[index]\r\n                if (equality.equals(key, entry.key)) {\r\n                    if (chain.size == 1) {\r\n                        chain.asDynamic().length = 0\r\n                        // remove the whole array\r\n                        jsDeleteProperty(backingMap, hashCode)\r\n                    } else {\r\n                        // splice out the entry we're removing\r\n                        chain.asDynamic().splice(index, 1)\r\n                    }\r\n                    size--\r\n//                    structureChanged(host)\r\n                    return entry.value\r\n                }\r\n            }\r\n        }\r\n        return null\r\n    }\r\n\r\n    override fun clear() {\r\n        backingMap = createJsMap()\r\n        size = 0\r\n    }\r\n\r\n    override fun contains(key: K): Boolean = getEntry(key) != null\r\n\r\n    override fun get(key: K): V? = getEntry(key)?.value\r\n\r\n    private fun getEntry(key: K): MutableEntry<K, V>? {\r\n        val chainOrEntry = getChainOrEntryOrNull(equality.getHashCode(key)) ?: return null\r\n        if (chainOrEntry !is Array<*>) {\r\n            val entry: MutableEntry<K, V> = chainOrEntry\r\n            if (equality.equals(entry.key, key)) {\r\n                return entry\r\n            } else {\r\n                return null\r\n            }\r\n        } else {\r\n            val chain: Array<MutableEntry<K, V>> = chainOrEntry\r\n            return chain.findEntryInChain(key)\r\n        }\r\n    }\r\n\r\n    private fun Array<MutableEntry<K, V>>.findEntryInChain(key: K): MutableEntry<K, V>? =\r\n        firstOrNull { entry -> equality.equals(entry.key, key) }\r\n\r\n    override fun iterator(): MutableIterator<MutableEntry<K, V>> {\r\n\r\n        return object : MutableIterator<MutableEntry<K, V>> {\r\n            var state = -1 // -1 not ready, 0 - ready, 1 - done\r\n\r\n            val keys: Array<String> = js(\"Object\").keys(backingMap)\r\n            var keyIndex = -1\r\n\r\n            var chainOrEntry: dynamic = null\r\n            var isChain = false\r\n            var itemIndex = -1\r\n            var lastEntry: MutableEntry<K, V>? = null\r\n\r\n            private fun computeNext(): Int {\r\n                if (chainOrEntry != null && isChain) {\r\n                    val chainSize: Int = chainOrEntry.unsafeCast<Array<MutableEntry<K, V>>>().size\r\n                    if (++itemIndex < chainSize)\r\n                        return 0\r\n                }\r\n\r\n                if (++keyIndex < keys.size) {\r\n                    chainOrEntry = backingMap[keys[keyIndex]]\r\n                    isChain = chainOrEntry is Array<*>\r\n                    itemIndex = 0\r\n                    return 0\r\n                } else {\r\n                    chainOrEntry = null\r\n                    return 1\r\n                }\r\n            }\r\n\r\n            override fun hasNext(): Boolean {\r\n                if (state == -1)\r\n                    state = computeNext()\r\n                return state == 0\r\n            }\r\n\r\n            override fun next():
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MutableEntry<K, V> {\r\n if (!hasNext()) throw NoSuchElementException()\r\n val lastEntry = if (isChain) {\r\n chainOrEntry.unsafeCast<Array<MutableEntry<K, V>>>()[itemIndex]\r\n } else {\r\n chainOrEntry.unsafeCast<MutableEntry<K, V>>()\r\n }\r\n this.lastEntry = lastEntry\r\n state = -1\r\n return lastEntry\r\n }\r\n\r\n override fun remove() {\r\n checkNotNull(lastEntry)\r\n this@InternalHashCodeMap.remove(lastEntry!!.key)\r\n lastEntry = null\r\n // the chain being iterated just got modified by InternalHashCodeMap.remove\r\n itemIndex--\r\n }\r\n }\r\n }\r\n\r\n private fun getChainOrEntryOrNull(hashCode: Int): dynamic {\r\n val chainOrEntry = backingMap[hashCode]\r\n return if (chainOrEntry === undefined) null else chainOrEntry\r\n }\r\n\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.collections\r\n\r\n/**\r\n * The common interface of [InternalStringMap] and [InternalHashCodeMap].\r\n */\r\ninternal interface InternalMap<K, V> : MutableIterable<MutableMap.MutableEntry<K, V>> {\r\n val equality: EqualityComparator\r\n val size: Int\r\n operator fun contains(key: K): Boolean\r\n operator fun get(key: K): V?\r\n\r\n fun put(key: K, value: V): V?\r\n fun remove(key: K): V?\r\n fun clear(): Unit\r\n\r\n fun createJsMap(): dynamic {\r\n val result = js(\"Object.create(null)\")\r\n // force to switch object representation to dictionary mode\r\n result[\"foo\"] = 1\r\n jsDeleteProperty(result, \"foo\")\r\n return result\r\n }\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n/*\r\n * Based on GWT InternalStringMap\r\n * Copyright 2008 Google Inc.\r\n */\r\npackage kotlin.collections\r\n\r\nimport kotlin.collections.MutableMap.MutableEntry\r\n\r\n/**\r\n * A simple wrapper around JavaScript Map for key type is string.\r\n *\r\n * Though this map is instantiated only with K=String, the K type is not fixed to String statically,\r\n * because we want to have it erased to Any? in order not to generate type-safe override bridges for\r\n * [get], [contains], [remove] etc, if they ever are generated.\r\n */\r\ninternal class InternalStringMap<K, V>(override val equality: EqualityComparator) : InternalMap<K, V> {\r\n\r\n private var backingMap: dynamic = createJsMap()\r\n override var size: Int = 0\r\n private set\r\n\r\n// /**\r\n// * A mod count to track 'value' replacements in map to ensure that the 'value' that we have in the\r\n// * iterator entry is guaranteed to be still correct.\r\n// * This is to optimize for the common scenario where the values are not modified during\r\n// * iterations where the entries are never stale.\r\n// */\r\n// private var valueMod: Int = 0\r\n\r\n override operator fun contains(key: K): Boolean {\r\n if (key !is String) return false\r\n return backingMap[key] !== undefined\r\n }\r\n\r\n override operator fun get(key: K): V? {\r\n if (key !is String) return null\r\n val value = backingMap[key]\r\n return if (value !== undefined) value.unsafeCast<V>() else null\r\n }\r\n\r\n\r\n override fun put(key: K, value: V): V? {\r\n require(key is String)\r\n val oldValue = backingMap[key]\r\n backingMap[key] = value\r\n\r\n if (oldValue === undefined) {\r\n size++\r\n// structureChanged(host)\r\n return null\r\n } else {\r\n// valueMod++\r\n return oldValue.unsafeCast<V>()\r\n }\r\n }\r\n\r\n override fun remove(key: K): V? {\r\n if (key !is String) return null\r\n val value = backingMap[key]\r\n if (value !== undefined) {\r\n jsDeleteProperty(backingMap, key)\r\n size--\r\n// structureChanged(host)\r\n return value.unsafeCast<V>()\r\n } else {\r\n// valueMod++\r\n return null\r\n }\r\n }\r\n\r\n\r\n override fun clear() {\r\n backingMap = createJsMap()\r\n size = 0\r\n }\r\n\r\n\r\n override fun iterator(): MutableIterator<MutableEntry<K, V>> {\r\n return object : MutableIterator<MutableEntry<K, V>> {\r\n private val keys: Array<String> = js(\"Object\").keys(backingMap)\r\n private val iterator = keys.iterator()\r\n private var lastKey: String? = null\r\n\r\n override fun hasNext(): Boolean = iterator.hasNext()\r\n\r\n override fun next(): MutableEntry<K, V> {\r\n val key = iterator.next()\r\n lastKey = key\r\n @Suppress(\"UNCHECKED_CAST\")\r\n return newMapEntry(key as K)\r\n }\r\n\r\n override fun remove() {\r\n @Suppress(\"UNCHECKED_CAST\")\r\n this@InternalStringMap.remove(checkNotNull(lastKey) as K)\r\n }\r\n }\r\n }\r\n\r\n private fun newMapEntry(key: K): MutableEntry<K, V> = object : MutableEntry<K, V> {\r\n override val key: K get() =

key\r\n override val value: V get() = this@InternalStringMap[key].unsafeCast<V>()\r\n\r\n override fun setValue(newValue: V): V = this@InternalStringMap.put(key, newValue).unsafeCast<V>()\r\n\r\n override fun hashCode(): Int = AbstractMap.entryHashCode(this)\r\n override fun toString(): String = AbstractMap.entryToString(this)\r\n override fun equals(other: Any?): Boolean = AbstractMap.entryEquals(this, other)\r\n }\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n/*\r\n * Based on GWT LinkedHashMap\r\n * Copyright 2008 Google Inc.\r\n */\r\npackage kotlin.collections\r\n\r\nimport kotlin.collections.MutableMap.MutableEntry\r\n\r\n/**\r\n * Hash table based implementation of the [MutableMap] interface, which additionally preserves the insertion order\r\n * of entries during the iteration.\r\n *\r\n * The insertion order is preserved by maintaining a doubly-linked list of all of its entries.\r\n */\r\npublic actual open class LinkedHashMap<K, V> : HashMap<K, V>, MutableMap<K, V> {\r\n\r\n /**\r\n * The entry we use includes next/prev pointers for a doubly-linked circular\r\n * list with a head node. This reduces the special cases we have to deal with\r\n * in the list operations.\r\n\r\n * Note that we duplicate the key from the underlying hash map so we can find\r\n * the eldest entry. The alternative would have been to modify HashMap so more\r\n * of the code was directly usable here, but this would have added some\r\n * overhead to HashMap, or to reimplement most of the HashMap code here with\r\n * small modifications. Paying a small storage cost only if you use\r\n * LinkedHashMap and minimizing code size seemed like a better tradeoff\r\n */\r\n private class ChainEntry<K, V>(key: K, value: V) : AbstractMutableMap.SimpleEntry<K, V>(key, value) {\r\n internal var next: ChainEntry<K, V>? = null\r\n internal var prev: ChainEntry<K, V>? = null\r\n }\r\n\r\n private inner class EntrySet : AbstractMutableSet<MutableEntry<K, V>>() {\r\n\r\n private inner class EntryIterator : MutableIterator<MutableEntry<K, V>> {\r\n // The last entry that was returned from this iterator.\r\n private var last: ChainEntry<K, V>? = null\r\n\r\n // The next entry to return from this iterator.\r\n private var next: ChainEntry<K, V>? = null\r\n\r\n init {\r\n next = head\r\n// recordLastKnownStructure(map, this)\r\n }\r\n\r\n override fun hasNext(): Boolean {\r\n return next !== null\r\n }\r\n\r\n override fun next(): MutableEntry<K, V> {\r\n// checkStructuralChange(map, this)\r\n if (!hasNext()) throw NoSuchElementException()\r\n\r\n val current = next!!\r\n last = current\r\n next = current.next.takeIf { it !== head }\r\n return current\r\n }\r\n\r\n override fun remove() {\r\n check(last != null)\r\n// checkStructuralChange(map, this)\r\n\r\n last!!.remove()\r\n map.remove(last!!.key)\r\n// recordLastKnownStructure(map, this)\r\n last = null\r\n }\r\n }\r\n\r\n override fun add(element: MutableEntry<K, V>): Boolean = throw UnsupportedOperationException(\"Add is not supported on entries\")\r\n override fun clear() {\r\n this@LinkedHashMap.clear()\r\n }\r\n\r\n override operator fun contains(element: MutableEntry<K, V>): Boolean = containsEntry(element)\r\n\r\n override operator fun iterator(): MutableIterator<MutableEntry<K, V>> = EntryIterator()\r\n\r\n override fun remove(element: MutableEntry<K, V>): Boolean {\r\n if (contains(element)) {\r\n this@LinkedHashMap.remove(element.key)\r\n return true\r\n }\r\n return false\r\n }\r\n\r\n override val size: Int get() = this@LinkedHashMap.size\r\n }\r\n\r\n\r\n /*\r\n * The head of the insert order chain, which is a doubly-linked circular\r\n * list.\r\n *\r\n * The most recently inserted node is at the end of the chain, ie.\r\n * chain.prev.\r\n */\r\n private var head: ChainEntry<K, V>? = null\r\n\r\n /**\r\n * Add this node to the end of the chain.\r\n */\r\n private fun ChainEntry<K, V>.addToEnd() {\r\n // This entry is not in the list.\r\n check(next == null && prev == null)\r\n\r\n val _head = head\r\n if (_head == null) {\r\n head = this\r\n next = this\r\n prev = this\r\n } else {\r\n // Chain is valid.\r\n val _tail = checkNotNull(_head.prev)\r\n // Update me.\r\n prev = _tail\r\n next = _head\r\n // Update my new siblings: current head and old tail\r\n _head.prev = this\r\n _tail.next = this\r\n }\r\n }\r\n\r\n /**\r\n * Remove this node from the chain it is a part of.\r\n */\r\n private fun ChainEntry<K, V>.remove() {\r\n if (this.next === this) {\r\n // if this is single element, remove head\r\n head = null\r\n } else {\r\n if (head === this) {\r\n // if this is first

element, move head to next\r\n head = next\r\n }\r\n next!!.prev = prev\r\n prev!!.next = next\r\n }\r\n next = null\r\n prev = null\r\n }\r\n\r\n /*\r\n * The hashmap that keeps track of our entries and the chain. Note that we\r\n * duplicate the key here to eliminate changes to HashMap and minimize the\r\n * code here, at the expense of additional space.\r\n */\r\n private val map: HashMap<K, ChainEntry<K, V>>\r\n\r\n /**\r\n * Constructs an empty [LinkedHashMap] instance.\r\n */\r\n actual constructor() : super() {\r\n map = HashMap<K, ChainEntry<K, V>>()\r\n }\r\n\r\n internal constructor(backingMap: HashMap<K, Any>) : super() {\r\n @Suppress(\"UNCHECKED_CAST\") // expected to work due to erasure\r\n map = backingMap as HashMap<K, ChainEntry<K, V>>\r\n }\r\n\r\n /**\r\n * Constructs an empty [LinkedHashMap] instance.\r\n *\r\n * @param initialCapacity the initial capacity (ignored)\r\n * @param loadFactor the load factor (ignored)\r\n *\r\n * @throws IllegalArgumentException if the initial capacity or load factor are negative\r\n */\r\n @Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\n actual constructor(initialCapacity: Int, loadFactor: Float = 0.0f) : super(initialCapacity, loadFactor) {\r\n map = HashMap<K, ChainEntry<K, V>>()\r\n }\r\n\r\n actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\r\n\r\n /**\r\n * Constructs an instance of [LinkedHashMap] filled with the contents of the specified [original] map.\r\n */\r\n actual constructor(original: Map<out K, V>) {\r\n map = HashMap<K, ChainEntry<K, V>>()\r\n this.putAll(original)\r\n }\r\n\r\n actual override fun clear() {\r\n map.clear()\r\n head = null\r\n }\r\n\r\n\r\n\r\n// override fun clone(): Any {\r\n// return LinkedHashMap(this)\r\n// }\r\n\r\n\r\n actual override fun containsKey(key: K): Boolean = map.containsKey(key)\r\n\r\n actual override fun containsValue(value: V): Boolean {\r\n var node: ChainEntry<K, V> = head ?: return false\r\n do {\r\n if (node.value == value) {\r\n return true\r\n }\r\n node = node.next!!\r\n } while (node !== head)\r\n return false\r\n }\r\n\r\n\r\n override fun createEntrySet(): MutableSet<MutableMap.MutableEntry<K, V>> = EntrySet()\r\n\r\n actual override operator fun get(key: K): V? = map.get(key)?.value\r\n\r\n actual override fun put(key: K, value: V): V? {\r\n val old = map.get(key)\r\n if (old == null) {\r\n val newEntry = ChainEntry(key, value)\r\n map.put(key, newEntry)\r\n newEntry.addToEnd()\r\n return null\r\n } else {\r\n return old.setValue(value)\r\n }\r\n }\r\n\r\n actual override fun remove(key: K): V? {\r\n val entry = map.remove(key)\r\n if (entry != null) {\r\n entry.remove()\r\n return entry.value\r\n }\r\n return null\r\n }\r\n\r\n actual override val size: Int get() = map.size\r\n\r\n}\r\n\r\n/**\r\n * Constructs the specialized implementation of [LinkedHashMap] with [String] keys, which stores the keys as properties of\r\n * JS object without hashing them.\r\n */\r\npublic fun <V> linkedStringMapOf(vararg pairs: Pair<String, V>): LinkedHashMap<String, V> {\r\n return LinkedHashMap<String, V>(stringMapOf<Any>()).apply { putAll(pairs) }\r\n}","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n/*\r\n * Based on GWT LinkedHashSet\r\n * Copyright 2008 Google Inc.\r\n */\r\n\r\npackage kotlin.collections\r\n\r\n/**\r\n * The implementation of the [MutableSet] interface, backed by a [LinkedHashMap] instance.\r\n *\r\n * This implementation preserves the insertion order of elements during the iteration.\r\n */\r\npublic actual open class LinkedHashSet<E> : HashSet<E>, MutableSet<E> {\r\n\r\n internal constructor(map: LinkedHashMap<E, Any>) : super(map)\r\n\r\n /**\r\n * Constructs a new empty [LinkedHashSet].\r\n */\r\n actual constructor() : super(LinkedHashMap<E, Any>())\r\n\r\n /**\r\n * Constructs a new [LinkedHashSet] filled with the elements of the specified collection.\r\n */\r\n actual constructor(elements: Collection<E>) : super(LinkedHashMap<E, Any>()) {\r\n addAll(elements)\r\n }\r\n\r\n /**\r\n * Constructs a new empty [LinkedHashSet].\r\n *\r\n * @param initialCapacity the initial capacity (ignored)\r\n * @param loadFactor the load factor (ignored)\r\n *\r\n * @throws IllegalArgumentException if the initial capacity or load factor are negative\r\n */\r\n @Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\n actual constructor(initialCapacity: Int, loadFactor: Float = 0.0f) : super(LinkedHashMap<E, Any>(initialCapacity, loadFactor))\r\n\r\n actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\r\n\r\n// public override

fun clone(): Any {\r\n// return LinkedHashSet(this)\r\n// }\r\n\r\n}\r\n\r\n/**\r\n * Creates a new instance of the specialized implementation of [LinkedHashSet] with the specified [String] elements,\r\n * which elements the keys as properties of JS object without hashing them.\r\n */\r\npublic fun linkedStringSetOf(vararg elements: String): LinkedHashSet<String> {\r\n return LinkedHashSet(linkedStringMapOf<Any>()).apply { addAll(elements) }\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin\r\n\r\nimport kotlin.contracts.*\r\n\r\n\r\n@Deprecated(\"Do not use Synchronized annotation in pure Kotlin/JS code\", level = DeprecationLevel.ERROR)\r\npublic typealias Synchronized = kotlin.jvm.Synchronized\r\n\r\n@Deprecated(\"Do not use Volatile annotation in pure Kotlin/JS code\", level = DeprecationLevel.ERROR)\r\npublic typealias Volatile = kotlin.jvm.Volatile\r\n\r\n@kotlin.internal.InlineOnly\r\npublic actual inline fun <R> synchronized(lock: Any, block: () -> R): R {\r\n contract {\r\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\r\n }\r\n return block()\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.io\r\n\r\ninternal abstract class BaseOutput {\r\n open fun println() {\r\n print(\"\\n\")\r\n }\r\n\r\n open fun println(message: Any?) {\r\n print(message)\r\n println()\r\n }\r\n\r\n abstract fun print(message: Any?)\r\n\r\n open fun flush() {}\r\n}\r\n\r\n/** JsName used to make the declaration available outside of module to test it */\r\n@JsName(\"NodeJsOutput\")\r\ninternal class NodeJsOutput(val outputStream: dynamic) : BaseOutput() {\r\n override fun print(message: Any?) {\r\n // TODO: Using local variable because of bug in block decomposition lowering in IR backend\r\n val messageString = String(message)\r\n outputStream.write(messageString)\r\n }\r\n}\r\n\r\n/** JsName used to make the declaration available outside of module to test it */\r\n@JsName(\"OutputToConsoleLog\")\r\ninternal class OutputToConsoleLog : BaseOutput() {\r\n override fun print(message: Any?) {\r\n console.log(message)\r\n }\r\n\r\n override fun println(message: Any?) {\r\n console.log(message)\r\n }\r\n\r\n override fun println() {\r\n console.log(\"\")\r\n }\r\n}\r\n\r\n/** JsName used to make the declaration available outside of module to test it and use at try.kotl.in */\r\n@JsName(\"BufferedOutput\")\r\ninternal open class BufferedOutput : BaseOutput() {\r\n var buffer = \"\"\r\n\r\n override fun print(message: Any?) {\r\n buffer += String(message)\r\n }\r\n\r\n override fun flush() {\r\n buffer = \"\"\r\n }\r\n}\r\n\r\n/** JsName used to make the declaration available outside of module to test it */\r\n@JsName(\"BufferedOutputToConsoleLog\")\r\ninternal class BufferedOutputToConsoleLog : BufferedOutput() {\r\n override fun print(message: Any?) {\r\n var s = String(message)\r\n val i = s.lastIndexOf('\\n')\r\n if (i >= 0) {\r\n buffer += s.substring(0, i)\r\n flush()\r\n s = s.substring(i + 1)\r\n }\r\n buffer += s\r\n }\r\n\r\n override fun flush() {\r\n console.log(buffer)\r\n buffer = \"\"\r\n }\r\n}\r\n\r\n/** JsName used to make the declaration available outside of module to test it and use at try.kotl.in */\r\n@JsName(\"output\")\r\ninternal var output = run {\r\n val isNode: Boolean = js(\"typeof process !== 'undefined' && process.versions && !!process.versions.node\")\r\n if (isNode) NodeJsOutput(js(\"process.stdout\")) else BufferedOutputToConsoleLog()\r\n}\r\n\r\n\r\n@kotlin.internal.InlineOnly\r\nprivate inline fun String(value: Any?): String = js(\"String\")(value)\r\n\r\n\r\n/** Prints the line separator to the standard output stream. */\r\npublic actual fun println() {\r\n output.println()\r\n}\r\n\r\n\r\n/** Prints the given [message] and the line separator to the standard output stream. */\r\npublic actual fun println(message: Any?) {\r\n output.println(message)\r\n}\r\n\r\n\r\n/** Prints the given [message] to the standard output stream. */\r\npublic actual fun print(message: Any?) {\r\n output.print(message)\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.coroutines.js.internal\r\n\r\n\r\nimport kotlin.coroutines.Continuation\r\nimport kotlin.coroutines.EmptyCoroutineContext\r\n\r\n\r\n@PublishedApi\r\n@SinceKotlin(\"1.3\")\r\ninternal val EmptyContinuation = Continuation<Any?>(EmptyCoroutineContext) { result ->\r\n

result.getOrThrow()\r\n}","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.coroutines\r\n\r\nimport kotlin.coroutines.intrinsics.CoroutineSingletons.*\r\nimport kotlin.coroutines.intrinsics.COROUTINE_SUSPENDED\r\n\r\n@PublishedApi\r\n@SinceKotlin(\"1.3\")\r\ninternal actual class SafeContinuation<in T>\r\ninternal actual constructor(\r\n private val delegate: Continuation<T>,\r\n initialResult: Any?\r\n) : Continuation<T> {\r\n @PublishedApi\r\n internal actual constructor(delegate: Continuation<T>) : this(delegate, UNDECIDED)\r\n\r\n public actual override val context: CoroutineContext\r\n get() = delegate.context\r\n\r\n private var result: Any? = initialResult\r\n\r\n public actual override fun resumeWith(result: Result<T>) {\r\n val cur = this.result\r\n when {\r\n cur === UNDECIDED -> {\r\n this.result = result.value\r\n }\r\n cur === COROUTINE_SUSPENDED -> {\r\n this.result = RESUMED\r\n delegate.resumeWith(result)\r\n }\r\n else -> throw IllegalStateException(\"Already resumed\")\r\n }\r\n }\r\n\r\n @PublishedApi\r\n internal actual fun getOrThrow(): Any? {\r\n if (result === UNDECIDED) {\r\n result = COROUTINE_SUSPENDED\r\n return COROUTINE_SUSPENDED\r\n }\r\n val result = this.result\r\n return when {\r\n result === RESUMED -> COROUTINE_SUSPENDED // already called continuation, indicate COROUTINE_SUSPENDED upstream\r\n result is Result.Failure -> throw result.exception\r\n else -> result // either COROUTINE_SUSPENDED or data\r\n }\r\n }\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.js\r\n\r\n/**\r\n * Exposes the [Date API](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Date) to Kotlin.\r\n */\r\n@Suppress(\"NOT_DOCUMENTED\")\r\npublic external class Date() {\r\n public constructor(milliseconds: Number)\r\n\r\n public constructor(dateString: String)\r\n\r\n public constructor(year: Int, month: Int)\r\n\r\n public constructor(year: Int, month: Int, day: Int)\r\n\r\n public constructor(year: Int, month: Int, day: Int, hour: Int)\r\n\r\n public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int)\r\n\r\n public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int)\r\n\r\n public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int, millisecond: Number)\r\n\r\n public fun getDate(): Int\r\n\r\n public fun getDay(): Int\r\n\r\n public fun getFullYear(): Int\r\n\r\n public fun getHours(): Int\r\n\r\n public fun getMilliseconds(): Int\r\n\r\n public fun getMinutes(): Int\r\n\r\n public fun getMonth(): Int\r\n\r\n public fun getSeconds(): Int\r\n\r\n public fun getTime(): Double\r\n\r\n public fun getTimezoneOffset(): Int\r\n\r\n public fun getUTCDate(): Int\r\n\r\n public fun getUTCDay(): Int\r\n\r\n public fun getUTCFullYear(): Int\r\n\r\n public fun getUTCHours(): Int\r\n\r\n public fun getUTCMilliseconds(): Int\r\n\r\n public fun getUTCMinutes(): Int\r\n\r\n public fun getUTCMonth(): Int\r\n\r\n public fun getUTCSeconds(): Int\r\n\r\n public fun toDateString(): String\r\n\r\n public fun toISOString(): String\r\n\r\n public fun toJSON(): Json\r\n\r\n public fun toLocaleDateString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally): String\r\n\r\n public fun toLocaleDateString(locales: String, options: LocaleOptions = definedExternally): String\r\n\r\n public fun toLocaleString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally): String\r\n\r\n public fun toLocaleString(locales: String, options: LocaleOptions = definedExternally): String\r\n\r\n public fun toLocaleTimeString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally): String\r\n\r\n public fun toLocaleTimeString(locales: String, options: LocaleOptions = definedExternally): String\r\n\r\n public fun toTimeString(): String\r\n\r\n public fun toUTCString(): String\r\n\r\n public companion object {\r\n public fun now(): Double\r\n\r\n public fun parse(dateString: String): Double\r\n\r\n public fun UTC(year: Int, month: Int): Double\r\n\r\n public fun UTC(year: Int, month: Int, day: Int): Double\r\n\r\n public fun UTC(year: Int, month: Int, day: Int, hour: Int): Double\r\n\r\n public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int): Double\r\n\r\n public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int): Double\r\n\r\n public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int, millisecond: Number): Double\r\n }\r\n\r\n public interface

LocaleOptions {\r\n public var localeMatcher: String?\r\n\r\n public var timeZone: String?\r\n\r\n public var hour12: Boolean?\r\n\r\n public var formatMatcher: String?\r\n\r\n public var weekday: String?\r\n\r\n public var era: String?\r\n\r\n public var year: String?\r\n\r\n public var month: String?\r\n\r\n public var day: String?\r\n\r\n public var hour: String?\r\n\r\n public var minute: String?\r\n\r\n public var second: String?\r\n\r\n public var timeZoneName: String?\r\n }\r\n}\r\n\r\npublic inline fun dateLocaleOptions(init: Date.LocaleOptions.() -> Unit): Date.LocaleOptions {\r\n val result = js(\"new Object()\").unsafeCast<Date.LocaleOptions>()\r\n init(result)\r\n return result\r\n}","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.dom\r\n\r\nimport org.w3c.dom.*\r\n\r\n/**\r\n * Creates a new element with the specified [name].\r\n *\r\n * The element is initialized with the speicifed [init] function.\r\n */\r\npublic fun Document.createElement(name: String, init: Element.() -> Unit): Element = createElement(name).apply(init)\r\n\r\n/**\r\n * Appends a newly created element with the specified [name] to this element.\r\n *\r\n * The element is initialized with the speicifed [init] function.\r\n */\r\npublic fun Element.appendElement(name: String, init: Element.() -> Unit): Element =\r\n ownerDocument!!.createElement(name, init).also { appendChild(it) }\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.dom\r\n\r\nimport org.w3c.dom.*\r\n\r\n/** Returns true if the element has the given CSS class style in its 'class' attribute */\r\nfun Element.hasClass(cssClass: String): Boolean = className.matches(\"\"\"(^|.*\\s+)$cssClass($|\\s+.*)\"\"\".toRegex())\r\n\r\n/**\r\n * Adds CSS class to element. Has no effect if all specified classes are already in class attribute of the element\r\n *\r\n * @return true if at least one class has been added\r\n */\r\nfun Element.addClass(vararg cssClasses: String): Boolean {\r\n val missingClasses = cssClasses.filterNot { hasClass(it) }\r\n if (missingClasses.isNotEmpty()) {\r\n val presentClasses = className.trim()\r\n className = buildString {\r\n append(presentClasses)\r\n if (!presentClasses.isEmpty()) {\r\n append(\" \")\r\n }\r\n missingClasses.joinTo(this, \" \")\r\n }\r\n return true\r\n }\r\n\r\n return false\r\n}\r\n\r\n/**\r\n * Removes all [cssClasses] from element. Has no effect if all specified classes are missing in class attribute of the element\r\n *\r\n * @return true if at least one class has been removed\r\n */\r\nfun Element.removeClass(vararg cssClasses: String): Boolean {\r\n if (cssClasses.any { hasClass(it) }) {\r\n val toBeRemoved = cssClasses.toSet()\r\n className = className.trim().split(\"\\\\s+\".toRegex()).filter { it !in toBeRemoved }.joinToString(\" \")\r\n return true\r\n }\r\n\r\n return false\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"StringsKt\")\r\n\r\npackage kotlin.text\r\n\r\n/**\r\n * Converts the string into a regular expression [Regex] with the default options.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun String.toRegex(): Regex = Regex(this)\r\n\r\n/**\r\n * Converts the string into a regular expression [Regex] with the specified single [option].\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun String.toRegex(option: RegexOption): Regex = Regex(this, option)\r\n\r\n/**\r\n * Converts the string into a regular expression [Regex] with the specified set of [options].\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun String.toRegex(options: Set<RegexOption>): Regex = Regex(this, options)\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"StringsKt\")\r\n\r\npackage kotlin.text\r\n\r\n/**\r\n * Builds new string by populating newly created [StringBuilder] using provided [builderAction]\r\n * and then converting it to [String].\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun buildString(builderAction: StringBuilder.() -> Unit): String =\r\n StringBuilder().apply(builderAction).toString()\r\n\r\n/**\r\n * Builds new string by populating newly created

[StringBuilder] initialized with the given [capacity]\r\n * using provided [builderAction] and then converting it to [String].\r\n */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun buildString(capacity: Int, builderAction: StringBuilder.() -> Unit): String =\r\n StringBuilder(capacity).apply(builderAction).toString()\r\n\r\n/**\r\n * Appends all arguments to the given [Appendable].\r\n */\r\npublic fun <T : Appendable> T.append(vararg value: CharSequence?): T {\r\n for (item in value)\r\n append(item)\r\n return this\r\n}\r\n\r\n/**\r\n * Appends all arguments to the given StringBuilder.\r\n */\r\npublic fun StringBuilder.append(vararg value: String?): StringBuilder {\r\n for (item in value)\r\n append(item)\r\n return this\r\n}\r\n\r\n/**\r\n * Appends all arguments to the given StringBuilder.\r\n */\r\npublic fun StringBuilder.append(vararg value: Any?): StringBuilder {\r\n for (item in value)\r\n append(item)\r\n return this\r\n}\r\n\r\n\r\ninternal fun <T> Appendable.appendElement(element: T, transform: ((T) -> CharSequence)?) {\r\n when {\r\n transform != null -> append(transform(element))\r\n element is CharSequence? -> append(element)\r\n element is Char -> append(element)\r\n else -> append(element.toString())\r\n }\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.dom\r\n\r\nimport org.w3c.dom.*\r\n\r\n/**\r\n * Gets a value indicating whether this node is a TEXT_NODE or a CDATA_SECTION_NODE.\r\n */\r\npublic val Node.isText: Boolean\r\n get() = nodeType == Node.TEXT_NODE || nodeType == Node.CDATA_SECTION_NODE\r\n\r\n/**\r\n * Gets a value indicating whether this node is an [Element].\r\n */\r\npublic val Node.isElement: Boolean\r\n get() = nodeType == Node.ELEMENT_NODE\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage org.w3c.dom.events\r\n\r\npublic fun EventListener(handler: (Event) -> Unit): EventListener = EventListenerHandler(handler)\r\n\r\nprivate class EventListenerHandler(private val handler: (Event) -> Unit) : EventListener {\r\n public override fun handleEvent(event: Event) {\r\n handler(event)\r\n }\r\n\r\n public override fun toString(): String = \"EventListenerHandler($handler)\"\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage org.w3c.dom\r\n\r\npublic external interface ItemArrayLike<out T> {\r\n val length: Int\r\n fun item(index: Int): T?\r\n}\r\n\r\n/**\r\n * Returns the view of this `ItemArrayLike<T>` collection as `List<T>`\r\n */\r\npublic fun <T> ItemArrayLike<T>.asList(): List<T> = object : AbstractList<T>() {\r\n override val size: Int get() = this@asList.length\r\n\r\n override fun get(index: Int): T = when (index) {\r\n in 0..lastIndex -> this@asList.item(index).unsafeCast<T>()\r\n else -> throw IndexOutOfBoundsException(\"index $index is not in range [0..$lastIndex]\")\r\n }\r\n}","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.dom\r\n\r\nimport org.w3c.dom.*\r\n\r\n/** Removes all the children from this node. */\r\npublic fun Node.clear() {\r\n while (hasChildNodes()) {\r\n removeChild(firstChild!!)\r\n }\r\n}\r\n\r\n/**\r\n * Creates text node and append it to the element.\r\n *\r\n * @return this element\r\n */\r\nfun Element.appendText(text: String): Element {\r\n appendChild(ownerDocument!!.createTextNode(text))\r\n return this\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.js\r\n\r\n/**\r\n * Reinterprets this value as a value of the [dynamic type](/docs/reference/dynamic-type.html).\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Any?.asDynamic(): dynamic = this\r\n\r\n/**\r\n * Reinterprets this value as a value of the specified type [T] without any actual type checking.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> Any?.unsafeCast(): @kotlin.internal.NoInfer T = this.asDynamic()\r\n\r\n/**\r\n * Reinterprets this `dynamic` value as a value of the specified type [T] without any actual type checking.\r\n */\r\n@kotlin.internal.DynamicExtension\r\n@JsName(\"unsafeCastDynamic\")\r\n@kotlin.internal.InlineOnly\r\np

ublic inline fun <T> dynamic.unsafeCast(): @kotlin.internal.NoInfer T = this\r\n\r\n/**\r\n * Allows to iterate this `dynamic` object in the following cases:\r\n * - when it has an `iterator` function,\r\n * - when it is an array\r\n * - when it is an instance of [kotlin.collections.Iterable]\r\n */\r\n@kotlin.internal.DynamicExtension\r\npublic operator fun dynamic.iterator(): Iterator<dynamic> {\r\n val r: Any? = this\r\n\r\n return when {\r\n this[\"iterator\"] != null ->\r\n this[\"iterator\"]()\r\n isArrayish(r) ->\r\n r.unsafeCast<Array<*>>().iterator()\r\n\r\n else ->\r\n (r as Iterable<*>).iterator()\r\n }\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin\r\n\r\n// NOTE: Do not author your exceptions as they are written in this file, instead use this template:\r\n/*\r\npublic open class MyException : Exception {\r\n constructor() : super()\r\n constructor(message: String?) : super(message)\r\n constructor(message: String?, cause: Throwable?) : super(message, cause)\r\n constructor(cause: Throwable?) : super(cause)\r\n}\r\n*/\r\n\r\n\r\n\r\n// TODO: remove workarounds for KT-22053 from direct Throwable inheritors\r\n// TODO: remove primary constructors, make all secondary KT-22055\r\n\r\n@Suppress(\"USELESS_ELVIS_RIGHT_IS_NULL\")\r\npublic actual open class Error actual constructor(message: String?, cause: Throwable?) : Throwable(message, cause ?: null) {\r\n actual constructor() : this(null, null) {\r\n Error::class.js.asDynamic().call(this, null, null)\r\n }\r\n\r\n actual constructor(message: String?) : this(message, null) {\r\n Error::class.js.asDynamic().call(this, message, null)\r\n }\r\n\r\n actual constructor(cause: Throwable?) : this(undefined, cause) {\r\n Error::class.js.asDynamic().call(this, undefined, cause)\r\n }\r\n}\r\n\r\n@Suppress(\"USELESS_ELVIS_RIGHT_IS_NULL\")\r\npublic actual open class Exception actual constructor(message: String?, cause: Throwable?) : Throwable(message, cause ?: null) {\r\n actual constructor() : this(null, null) {\r\n Exception::class.js.asDynamic().call(this, null, null)\r\n }\r\n\r\n actual constructor(message: String?) : this(message, null) {\r\n Exception::class.js.asDynamic().call(this, message, null)\r\n }\r\n\r\n actual constructor(cause: Throwable?) : this(undefined, cause) {\r\n Exception::class.js.asDynamic().call(this, undefined, cause)\r\n }\r\n}\r\n\r\npublic actual open class RuntimeException actual constructor(message: String?, cause: Throwable?) : Exception(message, cause) {\r\n actual constructor() : this(null, null)\r\n actual constructor(message: String?) : this(message, null)\r\n actual constructor(cause: Throwable?) : this(undefined, cause)\r\n}\r\n\r\npublic actual open class IllegalArgumentException actual constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\r\n actual constructor() : this(null, null)\r\n actual constructor(message: String?) : this(message, null)\r\n actual constructor(cause: Throwable?) : this(undefined, cause)\r\n}\r\n\r\npublic actual open class IllegalStateException actual constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\r\n actual constructor() : this(null, null)\r\n actual constructor(message: String?) : this(message, null)\r\n actual constructor(cause: Throwable?) : this(undefined, cause)\r\n}\r\n\r\npublic actual open class IndexOutOfBoundsException actual constructor(message: String?) : RuntimeException(message) {\r\n actual constructor() : this(null)\r\n}\r\n\r\npublic actual open class ConcurrentModificationException actual constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\r\n actual constructor() : this(null, null)\r\n actual constructor(message: String?) : this(message, null)\r\n actual constructor(cause: Throwable?) : this(undefined, cause)\r\n}\r\n\r\npublic actual open class UnsupportedOperationException actual constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\r\n actual constructor() : this(null, null)\r\n actual constructor(message: String?) : this(message, null)\r\n actual constructor(cause: Throwable?) : this(undefined, cause)\r\n}\r\n\r\n\r\n\r\npublic actual open class NumberFormatException actual constructor(message: String?) : IllegalArgumentException(message) {\r\n actual constructor() : this(null)\r\n}\r\n\r\n\r\n\r\npublic actual open class NullPointerException actual constructor(message: String?) : RuntimeException(message) {\r\n actual constructor() : this(null)\r\n}\r\n\r\npublic actual open class ClassCastException actual constructor(message: String?) : RuntimeException(message) {\r\n actual constructor() : this(null)\r\n}\r\n\r\npublic actual open class AssertionError private constructor(message: String?, cause: Throwable?) : Error(message, cause) {\r\n actual constructor() : this(null)\r\n constructor(message: String?) : this(message, null)\r\n actual constructor(message: Any?) : this(message.toString(), message as?

Throwable)\r\n}\r\n\r\npublic actual open class NoSuchElementException actual constructor(message: String?) : RuntimeException(message) {\r\n   actual constructor() : this(null)\r\n}\r\n\r\n@SinceKotlin(\"1.3\")\r\npublic actual open class ArithmeticException actual constructor(message: String?) : RuntimeException(message) {\r\n   actual constructor() : this(null)\r\n}\r\n\r\npublic actual open class NoWhenBranchMatchedException actual constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\r\n   actual constructor() : this(null, null)\r\n   actual constructor(message: String?) : this(message, null)\r\n   actual constructor(cause: Throwable?) : this(undefined, cause)\r\n}\r\n\r\npublic actual open class UninitializedPropertyAccessException actual constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\r\n   actual constructor() : this(null, null)\r\n   actual constructor(message: String?) : this(message, null)\r\n   actual constructor(cause: Throwable?) : this(undefined, cause)\r\n}\r\n\","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// a package is omitted to get declarations directly under the module\r\n\r\n@JsName(\"throwNPE\")\r\ninternal fun throwNPE(message: String) {\r\n   throw NullPointerException(message)\r\n}\r\n\r\n@JsName(\"throwCCE\")\r\ninternal fun throwCCE() {\r\n   throw ClassCastException(\"Illegal cast\")\r\n}\r\n\r\n@JsName(\"throwISE\")\r\ninternal fun throwISE(message: String) {\r\n   throw IllegalStateException(message)\r\n}\r\n\r\n@JsName(\"throwUPAE\")\r\ninternal fun throwUPAE(propertyName: String) {\r\n   throw UninitializedPropertyAccessException(\"lateinit property ${propertyName} has not been initialized\")\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmName(\"GroupingKt\")\r\n@file:kotlin.jvm.JvmMultifileClass\r\n\r\npackage kotlin.collections\r\n\r\n/**\r\n * Represents a source of elements with a [keyOf] function, which can be applied to each element to get its key.\r\n *\r\n * A [Grouping] structure serves as an intermediate step in group-and-fold operations:\r\n * they group elements by their keys and then fold each group with some aggregating operation.\r\n *\r\n * It is created by attaching `keySelector: (T) -> K` function to a source of elements.\r\n * To get an instance of [Grouping] use one of `groupingBy` extension functions:\r\n * - [Iterable.groupingBy]\r\n * - [Sequence.groupingBy]\r\n * - [Array.groupingBy]\r\n * - [CharSequence.groupingBy]\r\n *\r\n * For the list of group-and-fold operations available, see the [extension functions](#extension-functions) for `Grouping`.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic interface Grouping<T, out K> {\r\n   /** Returns an [Iterator] over the elements of the source of this grouping. */\r\n   fun sourceIterator(): Iterator<T>\r\n   /** Extracts the key of an [element]. */\r\n   fun keyOf(element: T): K\r\n}\r\n\r\n/**\r\n * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially,\r\n * passing the previously accumulated value and the current element as arguments, and stores the results in a new map.\r\n *\r\n * The key for each element is provided by the [Grouping.keyOf] function.\r\n *\r\n * @param operation function is invoked on each element with the following parameters:\r\n * - `key`: the key of the group this element belongs to;\r\n * - `accumulator`: the current value of the accumulator of the group, can be `null` if it's the first `element` encountered in the group;\r\n * - `element`: the element from the source being aggregated;\r\n * - `first`: indicates whether it's the first `element` encountered in the group.\r\n *\r\n * @return a [Map] associating the key of each group with the result of aggregation of the group elements.\r\n * @sample samples.collections.Grouping.aggregateByRadix\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic inline fun <T, K, R> Grouping<T, K>.aggregate(\r\n   operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R\r\n): Map<K, R> {\r\n   return aggregateTo(mutableMapOf<K, R>(), operation)\r\n}\r\n\r\n/**\r\n * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially,\r\n * passing the previously accumulated value and the current element as arguments,\r\n * and stores the results in the given [destination] map.\r\n *\r\n * The key for each element is provided by the [Grouping.keyOf] function.\r\n *\r\n * @param operation a function that is invoked on each element with the following parameters:\r\n * - `key`: the key of the group this element belongs to;\r\n * - `accumulator`: the current value of the accumulator of the group, can be `null` if it's the first `element` encountered in the group;\r\n * - `element`: the element from the source being aggregated;\r\n * - `first`: indicates whether it's the first `element`

encountered in the group.\r\n *\r\n * If the [destination] map already has a value corresponding to some key,\r\n * then the elements being aggregated for that key are never considered as `first`.\r\n *\r\n * @return the [destination] map associating the key of each group with the result of aggregation of the group elements.\r\n * @sample samples.collections.Grouping.aggregateByRadixTo\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.aggregateTo(\r\n   destination: M,\r\n   operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R\r\n): M {\r\n   for (e in this.sourceIterator()) {\r\n   val key = keyOf(e)\r\n   val accumulator = destination[key]\r\n   destination[key] = operation(key, accumulator, e, accumulator == null && !destination.containsKey(key))\r\n   }\r\n   return destination\r\n}\r\n\r\n/**\r\n * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially,\r\n * passing the previously accumulated value and the current element as arguments, and stores the results in a new map.\r\n * An initial value of accumulator is provided by [initialValueSelector] function.\r\n *\r\n * @param initialValueSelector a function that provides an initial value of accumulator for each group.\r\n * It's invoked with parameters:\r\n * - `key`: the key of the group;\r\n * - `element`: the first element being encountered in that group.\r\n *\r\n * @param operation a function that is invoked on each element with the following parameters:\r\n * - `key`: the key of the group this element belongs to;\r\n * - `accumulator`: the current value of the accumulator of the group;\r\n * - `element`: the element from the source being accumulated.\r\n *\r\n * @return a [Map] associating the key of each group with the result of accumulating the group elements.\r\n * @sample samples.collections.Grouping.foldByEvenLengthWithComputedInitialValue\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic inline fun <T, K, R> Grouping<T, K>.fold(\r\n   initialValueSelector: (key: K, element: T) -> R,\r\n   operation: (key: K, accumulator: R, element: T) -> R\r\n): Map<K, R> =\r\n   @Suppress(\"UNCHECKED_CAST\")\r\n   aggregate { key, acc, e, first -> operation(key, if (first) initialValueSelector(key, e) else acc as R, e) }\r\n\r\n/**\r\n * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially,\r\n * passing the previously accumulated value and the current element as arguments,\r\n * and stores the results in the given [destination] map.\r\n * An initial value of accumulator is provided by [initialValueSelector] function.\r\n *\r\n * @param initialValueSelector a function that provides an initial value of accumulator for each group.\r\n * It's invoked with parameters:\r\n * - `key`: the key of the group;\r\n * - `element`: the first element being encountered in that group.\r\n *\r\n * If the [destination] map already has a value corresponding to some key, that value is used as an initial value of\r\n * the accumulator for that group and the [initialValueSelector] function is not called for that group.\r\n *\r\n * @param operation a function that is invoked on each element with the following parameters:\r\n * - `key`: the key of the group this element belongs to;\r\n * - `accumulator`: the current value of the accumulator of the group;\r\n * - `element`: the element from the source being accumulated.\r\n *\r\n * @return the [destination] map associating the key of each group with the result of accumulating the group elements.\r\n * @sample samples.collections.Grouping.foldByEvenLengthWithComputedInitialValueTo\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.foldTo(\r\n   destination: M,\r\n   initialValueSelector: (key: K, element: T) -> R,\r\n   operation: (key: K, accumulator: R, element: T) -> R\r\n): M =\r\n   @Suppress(\"UNCHECKED_CAST\")\r\n   aggregateTo(destination) { key, acc, e, first -> operation(key, if (first) initialValueSelector(key, e) else acc as R, e) }\r\n\r\n\r\n/**\r\n * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially,\r\n * passing the previously accumulated value and the current element as arguments, and stores the results in a new map.\r\n * An initial value of accumulator is the same [initialValue] for each group.\r\n *\r\n * @param operation a function that is invoked on each element with the following parameters:\r\n * - `accumulator`: the current value of the accumulator of the group;\r\n * - `element`: the element from the source being accumulated.\r\n *\r\n * @return a [Map] associating the key of each group with the result of accumulating the group elements.\r\n * @sample samples.collections.Grouping.foldByEvenLengthWithConstantInitialValue\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic inline fun <T, K, R> Grouping<T, K>.fold(\r\n   initialValue: R,\r\n   operation: (accumulator: R, element: T) -> R\r\n): Map<K, R> =\r\n   @Suppress(\"UNCHECKED_CAST\")\r\n   aggregate { _, acc, e, first -> operation(if (first) initialValue else acc as R, e) }\r\n\r\n/**\r\n * Groups elements from

the [Grouping] source by key and applies [operation] to the elements of each group sequentially,\r\n * passing the previously accumulated value and the current element as arguments,\r\n * and stores the results in the given [destination] map.\r\n * An initial value of accumulator is the same [initialValue] for each group.\r\n *\r\n * If the [destination] map already has a value corresponding to the key of some group,\r\n * that value is used as an initial value of the accumulator for that group.\r\n *\r\n * @param operation a function that is invoked on each element with the following parameters:\r\n * - `accumulator`: the current value of the accumulator of the group;\r\n * - `element`: the element from the source being accumulated.\r\n *\r\n * @return the [destination] map associating the key of each group with the result of accumulating the group elements.\r\n * @sample samples.collections.Grouping.foldByEvenLengthWithConstantInitialValueTo\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.foldTo(\r\n   destination: M,\r\n   initialValue: R,\r\n   operation: (accumulator: R, element: T) -> R\r\n): M =\r\n   @Suppress(\"UNCHECKED_CAST\")\r\n   aggregateTo(destination) { _, acc, e, first -> operation(if (first) initialValue else acc as R, e) }\r\n\r\n\r\n/**\r\n * Groups elements from the [Grouping] source by key and applies the reducing [operation] to the elements of each group\r\n * sequentially starting from the second element of the group,\r\n * passing the previously accumulated value and the current element as arguments,\r\n * and stores the results in a new map.\r\n * An initial value of accumulator is the first element of the group.\r\n *\r\n * @param operation a function that is invoked on each subsequent element of the group with the following parameters:\r\n * - `key`: the key of the group this element belongs to;\r\n * - `accumulator`: the current value of the accumulator of the group;\r\n * - `element`: the element from the source being accumulated.\r\n *\r\n * @return a [Map] associating the key of each group with the result of accumulating the group elements.\r\n * @sample samples.collections.Grouping.reduceByMaxVowels\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic inline fun <S, T : S, K> Grouping<T, K>.reduce(\r\n   operation: (key: K, accumulator: S, element: T) -> S\r\n): Map<K, S> =\r\n   aggregate { key, acc, e, first ->\r\n   @Suppress(\"UNCHECKED_CAST\")\r\n   if (first) e else operation(key, acc as S, e)\r\n   }\r\n\r\n/**\r\n * Groups elements from the [Grouping] source by key and applies the reducing [operation] to the elements of each group\r\n * sequentially starting from the second element of the group,\r\n * passing the previously accumulated value and the current element as arguments,\r\n * and stores the results in the given [destination] map.\r\n * An initial value of accumulator is the first element of the group.\r\n *\r\n * If the [destination] map already has a value corresponding to the key of some group,\r\n * that value is used as an initial value of the accumulator for that group and the first element of that group is also\r\n * subjected to the [operation].\r\n\r\n * @param operation a function that is invoked on each subsequent element of the group with the following parameters:\r\n * - `accumulator`: the current value of the accumulator of the group;\r\n * - `element`: the element from the source being folded;\r\n *\r\n * @return the [destination] map associating the key of each group with the result of accumulating the group elements.\r\n * @sample samples.collections.Grouping.reduceByMaxVowelsTo\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic inline fun <S, T : S, K, M : MutableMap<in K, S>> Grouping<T, K>.reduceTo(\r\n   destination: M,\r\n   operation: (key: K, accumulator: S, element: T) -> S\r\n): M =\r\n   aggregateTo(destination) { key, acc, e, first ->\r\n   @Suppress(\"UNCHECKED_CAST\")\r\n   if (first) e else operation(key, acc as S, e)\r\n   }\r\n\r\n\r\n/**\r\n * Groups elements from the [Grouping] source by key and counts elements in each group to the given [destination] map.\r\n *\r\n * If the [destination] map already has a value corresponding to the key of some group,\r\n * that value is used as an initial value of the counter for that group.\r\n *\r\n * @return the [destination] map associating the key of each group with the count of elements in the group.\r\n *\r\n * @sample samples.collections.Grouping.groupingByEachCount\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic fun <T, K, M : MutableMap<in K, Int>> Grouping<T, K>.eachCountTo(destination: M): M =\r\n   foldTo(destination, 0) { acc, _ -> acc + 1 }\r\n\r\n/*\r\n/**\r\n * Groups elements from the [Grouping] source by key and sums values provided by the [valueSelector] function for elements in each group\r\n * to the given [destination] map.\r\n *\r\n *\r\n * If the [destination] map already has a value corresponding to the key of some group,\r\n * that value is used as an initial value of the sum for that group.\r\n *\r\n * @return the [destination] map associating the key of each group with the sum of elements in the group.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic inline fun <T, K, M : MutableMap<in K,

Int>> Grouping<T, K>.eachSumOfTo(destination: M, valueSelector: (T) -> Int): M =\r\n foldTo(destination, 0) { acc, e -> acc + valueSelector(e)}\r\n*/\r\n\r\n\r\n/*\r\n// TODO: sum by long and by double overloads\r\n\r\npublic inline fun <T, K, M : MutableMap<in K, Long>> Grouping<T, K>.sumEachByLongTo(destination: M, valueSelector: (T) -> Long): M =\r\n foldTo(destination, 0L) { acc, e -> acc + valueSelector(e)}\r\n\r\npublic inline fun <T, K> Grouping<T, K>.sumEachByLong(valueSelector: (T) -> Long): Map<K, Long> =\r\n fold(0L) { acc, e -> acc + valueSelector(e)}\r\n\r\npublic inline fun <T, K, M : MutableMap<in K, Double>> Grouping<T, K>.sumEachByDoubleTo(destination: M, valueSelector: (T) -> Double): M =\r\n foldTo(destination, 0.0) { acc, e -> acc + valueSelector(e)}\r\n\r\npublic inline fun <T, K> Grouping<T, K>.sumEachByDouble(valueSelector: (T) -> Double): Map<K, Double> =\r\n fold(0.0) { acc, e -> acc + valueSelector(e)}\r\n*/\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\npackage kotlin.collections\r\n\r\n/**\r\n * Groups elements from the [Grouping] source by key and counts elements in each group.\r\n *\r\n * @return a [Map] associating the key of each group with the count of element in the group.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic actual fun <T, K> Grouping<T, K>.eachCount(): Map<K, Int> =\r\n fold(0) { acc, _ -> acc + 1 }\r\n\r\n/*\r\n/**\r\n * Groups elements from the [Grouping] source by key and sums values provided by the [valueSelector] function for elements in each group.\r\n *\r\n * @return a [Map] associating the key of each group with the count of element in the group.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic inline fun <T, K> Grouping<T, K>.eachSumOf(valueSelector: (T) -> Int): Map<K, Int> =\r\n fold(0) { acc, e -> acc + valueSelector(e) }\r\n*/","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.js\r\n\r\n/**\r\n * Exposes the JavaScript [Math object](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/Math) to Kotlin.\r\n */\r\n@Deprecated(\"Use top-level functions from kotlin.math package instead.\", level = DeprecationLevel.WARNING)\r\npublic external object Math {\r\n @Deprecated(\"Use kotlin.math.PI instead.\", ReplaceWith(\"PI\", \"kotlin.math.PI\"), level = DeprecationLevel.ERROR)\r\n public val PI: Double\r\n @Deprecated(\"Use Random.nextDouble instead\", ReplaceWith(\"kotlin.random.Random.nextDouble()\", \"kotlin.random.Random\"), level = DeprecationLevel.WARNING)\r\n public fun random(): Double\r\n @Deprecated(\"Use kotlin.math.abs instead.\", ReplaceWith(\"abs(value)\", \"kotlin.math.abs\"), level = DeprecationLevel.ERROR)\r\n public fun abs(value: Double): Double\r\n @Deprecated(\"Use kotlin.math.acos instead.\", ReplaceWith(\"acos(value)\", \"kotlin.math.acos\"), level = DeprecationLevel.ERROR)\r\n public fun acos(value: Double): Double\r\n @Deprecated(\"Use kotlin.math.asin instead.\", ReplaceWith(\"asin(value)\", \"kotlin.math.asin\"), level = DeprecationLevel.ERROR)\r\n public fun asin(value: Double): Double\r\n @Deprecated(\"Use kotlin.math.atan instead.\", ReplaceWith(\"atan(value)\", \"kotlin.math.atan\"), level = DeprecationLevel.ERROR)\r\n public fun atan(value: Double): Double\r\n @Deprecated(\"Use kotlin.math.atan2 instead.\", ReplaceWith(\"atan2(y, x)\", \"kotlin.math.atan2\"), level = DeprecationLevel.ERROR)\r\n public fun atan2(y: Double, x: Double): Double\r\n @Deprecated(\"Use kotlin.math.cos instead.\", ReplaceWith(\"cos(value)\", \"kotlin.math.cos\"), level = DeprecationLevel.ERROR)\r\n public fun cos(value: Double): Double\r\n @Deprecated(\"Use kotlin.math.sin instead.\", ReplaceWith(\"sin(value)\", \"kotlin.math.sin\"), level = DeprecationLevel.ERROR)\r\n public fun sin(value: Double): Double\r\n @Deprecated(\"Use kotlin.math.exp instead.\", ReplaceWith(\"exp(value)\", \"kotlin.math.exp\"), level = DeprecationLevel.ERROR)\r\n public fun exp(value: Double): Double\r\n @Deprecated(\"Use maxOf or kotlin.math.max instead\", level = DeprecationLevel.ERROR)\r\n public fun max(vararg values: Int): Int\r\n @Deprecated(\"Use maxOf or kotlin.math.max instead\", level = DeprecationLevel.ERROR)\r\n public fun max(vararg values: Float): Float\r\n @Deprecated(\"Use maxOf or kotlin.math.max instead\", level = DeprecationLevel.ERROR)\r\n public fun max(vararg values: Double): Double\r\n @Deprecated(\"Use minOf or kotlin.math.min instead\", level = DeprecationLevel.ERROR)\r\n public fun min(vararg values: Int): Int\r\n @Deprecated(\"Use minOf or kotlin.math.min instead\", level = DeprecationLevel.ERROR)\r\n public fun min(vararg values: Float): Float\r\n @Deprecated(\"Use minOf or

kotlin.math.min instead\", level = DeprecationLevel.ERROR)\r\n public fun min(vararg values: Double): Double\r\n @Deprecated(\"Use kotlin.math.sqrt instead.\", ReplaceWith(\"sqrt(value)\", \"kotlin.math.sqrt\"), level = DeprecationLevel.ERROR)\r\n public fun sqrt(value: Double): Double\r\n @Deprecated(\"Use kotlin.math.tan instead.\", ReplaceWith(\"tan(value)\", \"kotlin.math.tan\"), level = DeprecationLevel.ERROR)\r\n public fun tan(value: Double): Double\r\n @Deprecated(\"Use kotlin.math.ln instead.\", ReplaceWith(\"ln(value)\", \"kotlin.math.ln\"), level = DeprecationLevel.ERROR)\r\n public fun log(value: Double): Double\r\n @Deprecated(\"Use kotlin.math.pow instead.\", ReplaceWith(\"base.pow(exp)\", \"kotlin.math.pow\"), level = DeprecationLevel.ERROR)\r\n public fun pow(base: Double, exp: Double): Double\r\n @Deprecated(\"Use kotlin.math.round instead.\", ReplaceWith(\"round(value)\", \"kotlin.math.round\"), level = DeprecationLevel.ERROR)\r\n public fun round(value: Number): Int\r\n @Deprecated(\"Use kotlin.math.floor instead.\", ReplaceWith(\"floor(value)\", \"kotlin.math.floor\"), level = DeprecationLevel.ERROR)\r\n public fun floor(value: Number): Int\r\n @Deprecated(\"Use kotlin.math.ceil instead.\", ReplaceWith(\"ceil(value)\", \"kotlin.math.ceil\"), level = DeprecationLevel.ERROR)\r\n public fun ceil(value: Number): Int\r\n\r\n @PublishedApi\r\n internal fun trunc(value: Number): Double\r\n @PublishedApi\r\n internal fun sign(value: Number): Double\r\n\r\n @PublishedApi\r\n internal fun sinh(value: Double): Double\r\n @PublishedApi\r\n internal fun cosh(value: Double): Double\r\n @PublishedApi\r\n internal fun tanh(value: Double): Double\r\n @PublishedApi\r\n internal fun asinh(value: Double): Double\r\n @PublishedApi\r\n internal fun acosh(value: Double): Double\r\n @PublishedApi\r\n internal fun atanh(value: Double): Double\r\n\r\n @PublishedApi\r\n internal fun hypot(x: Double, y: Double): Double\r\n\r\n @PublishedApi\r\n internal fun expm1(value: Double): Double\r\n\r\n @PublishedApi\r\n internal fun log10(value: Double): Double\r\n @PublishedApi\r\n internal fun log2(value: Double): Double\r\n @PublishedApi\r\n internal fun log1p(value: Double): Double\r\n\r\n @PublishedApi\r\n internal fun clz32(value: Int): Int\r\n}\r\n\r\n/**\r\n * Returns the smaller of two values.\r\n */\r\n@Suppress(\"DEPRECATION\")\r\n@Deprecated(\"Use minOf or kotlin.math.min instead\", ReplaceWith(\"minOf(a, b)\"), level = DeprecationLevel.ERROR)\r\npublic fun Math.min(a: Long, b: Long): Long = if (a <= b) a else b\r\n\r\n/**\r\n * Returns the greater of two values.\r\n */\r\n@Suppress(\"DEPRECATION\")\r\n@Deprecated(\"Use maxOf or kotlin.math.max instead\", ReplaceWith(\"maxOf(a, b)\"), level = DeprecationLevel.ERROR)\r\npublic fun Math.max(a: Long, b: Long): Long = if (a >= b) a else b\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.js\r\n\r\n/**\r\n * An interface for indexing access to a collection of key-value pairs, where type of key is [String] and type of value is [Any?][Any].\r\n */\r\npublic external interface Json {\r\n /**\r\n * Calls to the function will be translated to indexing operation (square brackets) on the receiver with [propertyName] as the argument.\r\n *\r\n * E.g. for next code:\r\n * ```kotlin\r\n * fun test(j: Json, p: String) = j[\"prop\"] + j.get(p)\r\n * ```\r\n *\r\n * will be generated:\r\n * ```js\r\n * function test(j, p) {\r\n * return j[\"prop\"] + j[p];\r\n * }\r\n * ```\r\n */\r\n operator fun get(propertyName: String): Any?\r\n\r\n /**\r\n * Calls of the function will be translated to an assignment of [value] to the receiver indexed (with square brackets/index operation) with [propertyName].\r\n *\r\n * E.g. for the following code:\r\n * ```kotlin\r\n * fun test(j: Json, p: String, newValue: Any) {\r\n * j[\"prop\"] = 1\r\n * j.set(p, newValue)\r\n * }\r\n * ```\r\n *\r\n * will be generated:\r\n * ```js\r\n * function test(j, p, newValue) {\r\n * j[\"prop\"] = 1;\r\n * j[p] = newValue;\r\n * }\r\n * }\r\n * ```\r\n */\r\n operator fun set(propertyName: String, value: Any?): Unit\r\n}\r\n\r\n/**\r\n * Returns a simple JavaScript object (as [Json]) using provided key-value pairs as names and values of its properties.\r\n */\r\npublic fun json(vararg pairs: Pair<String, Any?>): Json {\r\n val res: dynamic = js(\"({})\")\r\n for ((name, value) in pairs) {\r\n res[name] = value\r\n }\r\n return res\r\n}\r\n\r\n/**\r\n * Adds key-value pairs from [other] to [this].\r\n * Returns the original receiver.\r\n */\r\npublic fun Json.add(other: Json): Json {\r\n val keys: Array<String> = js(\"Object\").keys(other)\r\n for (key in keys) {\r\n if (other.asDynamic().hasOwnProperty(key)) {\r\n this[key] = other[key];\r\n }\r\n }\r\n return this\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [JSON object](https://developer.mozilla.org/en-

US/docs/Web/JavaScript/Reference/Global_Objects/JSON) to Kotlin.\r\n
/\r\n@Suppress(\"NOT_DOCUMENTED\")\r\npublic external object JSON {\r\n   public fun stringify(o: Any?): String\r\n   public fun stringify(o: Any?, replacer: ((key: String, value: Any?) -> Any?)): String\r\n   public fun stringify(o: Any?, replacer: ((key: String, value: Any?) -> Any?)? = definedExternally, space: Int): String\r\n   public fun stringify(o: Any?, replacer: ((key: String, value: Any?) -> Any?)? = definedExternally, space: String): String\r\n   public fun stringify(o: Any?, replacer: Array<String>): String\r\n   public fun stringify(o: Any?, replacer: Array<String>, space: Int): String\r\n   public fun stringify(o: Any?, replacer: Array<String>, space: String): String\r\n\r\n   public fun <T> parse(text: String): T\r\n   public fun <T> parse(text: String, reviver: ((key: String, value: Any?) -> Any?)): T\r\n}\r\n","/\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n@file:Suppress(\"DEPRECATION\", \"DEPRECATION_ERROR\")\r\npackage kotlin.math\r\n\r\n\r\nimport kotlin.internal.InlineOnly\r\nimport kotlin.js.Math as nativeMath\r\n\r\n\r\n// region ================ Double Math ==\r\n\r\n/** Computes the sine of the angle [x] given in radians.\r\n *\r\n * Special cases:\r\n *   - `sin(NaN|+Inf|-Inf)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun sin(x: Double): Double = nativeMath.sin(x)\r\n\r\n\r\n/** Computes the cosine of the angle [x] given in radians.\r\n *\r\n * Special cases:\r\n *   - `cos(NaN|+Inf|-Inf)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun cos(x: Double): Double = nativeMath.cos(x)\r\n\r\n\r\n/** Computes the tangent of the angle [x] given in radians.\r\n *\r\n * Special cases:\r\n *   - `tan(NaN|+Inf|-Inf)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun tan(x: Double): Double = nativeMath.tan(x)\r\n\r\n\r\n/**\r\n * Computes the arc sine of the value [x];\r\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\r\n *\r\n * Special cases:\r\n *   - `asin(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun asin(x: Double): Double = nativeMath.asin(x)\r\n\r\n\r\n/**\r\n * Computes the arc cosine of the value [x];\r\n * the returned value is an angle in the range from `0.0` to `PI` radians.\r\n *\r\n * Special cases:\r\n *   - `acos(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun acos(x: Double): Double = nativeMath.acos(x)\r\n\r\n\r\n/**\r\n * Computes the arc tangent of the value [x];\r\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\r\n *\r\n * Special cases:\r\n *   - `atan(NaN)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun atan(x: Double): Double = nativeMath.atan(x)\r\n\r\n\r\n/**\r\n * Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond\r\n * to the rectangular coordinates `(x, y)` by computing the arc tangent of the value [y] / [x];\r\n * the returned value is an angle in the range from `-PI` to `PI` radians.\r\n *\r\n * Special cases:\r\n *   - `atan2(0.0, 0.0)` is `0.0`\r\n *   - `atan2(0.0, x)` is `0.0` for `x > 0` and `PI` for `x < 0`\r\n *   - `atan2(-0.0, x)` is `-0.0` for 'x > 0` and `-PI` for `x < 0`\r\n *    - `atan2(y, +Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for '-Inf < y < 0`\r\n *   - `atan2(y, -Inf)` is `PI` for `0 < y < +Inf` and `-PI` for `-Inf < y < 0`\r\n *   - `atan2(y, 0.0)` is `PI/2` for `y > 0` and `-PI/2` for `y < 0`\r\n *   - `atan2(+Inf, x)` is `PI/2` for finite `x`y\r\n *   - `atan2(-Inf, x)` is `-PI/2` for finite `x`\r\n *   - `atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun atan2(y: Double, x: Double): Double = nativeMath.atan2(y, x)\r\n\r\n\r\n/**\r\n * Computes the hyperbolic sine of the value [x].\r\n *\r\n * Special cases:\r\n *   - `sinh(NaN)` is `NaN`\r\n *   - `sinh(+Inf)` is `+Inf`\r\n *   - `sinh(-Inf)` is `-Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun sinh(x: Double): Double = nativeMath.sinh(x)\r\n\r\n\r\n/**\r\n * Computes the hyperbolic cosine of the value [x].\r\n *\r\n * Special cases:\r\n *   - `cosh(NaN)` is `NaN`\r\n *   - `cosh(+Inf|-Inf)` is `+Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun cosh(x: Double): Double = nativeMath.cosh(x)\r\n\r\n\r\n/**\r\n * Computes the hyperbolic tangent of the value [x].\r\n *\r\n * Special cases:\r\n *   - `tanh(NaN)` is `NaN`\r\n *   - `tanh(+Inf)` is `1.0`\r\n *   - `tanh(-Inf)` is `-1.0`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun tanh(x: Double): Double = nativeMath.tanh(x)\r\n\r\n\r\n/**\r\n * Computes the inverse hyperbolic sine of the value [x].\r\n *\r\n * The returned value is `y` such that `sinh(y) == x`.\r\n *\r\n * Special cases:\r\n *   - `asinh(NaN)` is `NaN`\r\n *   - `asinh(+Inf)` is `+Inf`\r\n *   - `asinh(-Inf)` is `-Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun asinh(x: Double): Double = nativeMath.asinh(x)\r\n\r\n\r\n/**\r\n * Computes the inverse hyperbolic cosine of the value

[x].\r\n *\r\n * The returned value is positive `y` such that `cosh(y) == x`.\r\n *\r\n * Special cases:\r\n * - `acosh(NaN)` is `NaN`\r\n * - `acosh(x)` is `NaN` when `x < 1`\r\n * - `acosh(+Inf)` is `+Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun acosh(x: Double): Double = nativeMath.acosh(x)\r\n\r\n/**\r\n * Computes the inverse hyperbolic tangent of the value [x].\r\n *\r\n * The returned value is `y` such that `tanh(y) == x`.\r\n *\r\n * Special cases:\r\n * - `tanh(NaN)` is `NaN`\r\n * - `tanh(x)` is `NaN` when `x > 1` or `x < -1`\r\n * - `tanh(1.0)` is `+Inf`\r\n * - `tanh(-1.0)` is `-Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun atanh(x: Double): Double = nativeMath.atanh(x)\r\n\r\n/**\r\n * Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow.\r\n *\r\n * Special cases:\r\n * - returns `+Inf` if any of arguments is infinite\r\n * - returns `NaN` if any of arguments is `NaN` and the other is not infinite\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun hypot(x: Double, y: Double): Double = nativeMath.hypot(x, y)\r\n\r\n/**\r\n * Computes the positive square root of the value [x].\r\n *\r\n * Special cases:\r\n * - `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun sqrt(x: Double): Double = nativeMath.sqrt(x)\r\n\r\n/**\r\n * Computes Euler's number `e` raised to the power of the value [x].\r\n *\r\n * Special cases:\r\n * - `exp(NaN)` is `NaN`\r\n * - `exp(+Inf)` is `+Inf`\r\n * - `exp(-Inf)` is `0.0`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun exp(x: Double): Double = nativeMath.exp(x)\r\n\r\n/**\r\n * Computes `exp(x) - 1`.\r\n *\r\n * This function can be implemented to produce more precise result for [x] near zero.\r\n *\r\n * Special cases:\r\n * - `expm1(NaN)` is `NaN`\r\n * - `expm1(+Inf)` is `+Inf`\r\n * - `expm1(-Inf)` is `-1.0`\r\n *\r\n * @see [exp] function.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun expm1(x: Double): Double = nativeMath.expm1(x)\r\n\r\n/**\r\n * Computes the logarithm of the value [x] to the given [base].\r\n *\r\n * Special cases:\r\n * - `log(x, b)` is `NaN` if either `x` or `b` are `NaN`\r\n * - `log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0`\r\n * - `log(+Inf, +Inf)` is `NaN`\r\n * - `log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1`\r\n * - `log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1`\r\n *\r\n * See also logarithm functions for common fixed bases: [ln], [log10] and [log2].\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual fun log(x: Double, base: Double): Double {\r\n   if (base <= 0.0 || base == 1.0) return Double.NaN\r\n   return nativeMath.log(x) / nativeMath.log(base)\r\n}\r\n\r\n/**\r\n * Computes the natural logarithm (base `E`) of the value [x].\r\n *\r\n * Special cases:\r\n * - `ln(NaN)` is `NaN`\r\n * - `ln(x)` is `NaN` when `x < 0.0`\r\n * - `ln(+Inf)` is `+Inf`\r\n * - `ln(0.0)` is `-Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun ln(x: Double): Double = nativeMath.log(x)\r\n\r\n/**\r\n * Computes the common logarithm (base 10) of the value [x].\r\n *\r\n * @see [ln] function for special cases.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun log10(x: Double): Double = nativeMath.log10(x)\r\n\r\n/**\r\n * Computes the binary logarithm (base 2) of the value [x].\r\n *\r\n * @see [ln] function for special cases.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun log2(x: Double): Double = nativeMath.log2(x)\r\n\r\n/**\r\n * Computes `ln(x + 1)`.\r\n *\r\n * This function can be implemented to produce more precise result for [x] near zero.\r\n *\r\n * Special cases:\r\n * - `ln1p(NaN)` is `NaN`\r\n * - `ln1p(x)` is `NaN` where `x < -1.0`\r\n * - `ln1p(-1.0)` is `-Inf`\r\n * - `ln1p(+Inf)` is `+Inf`\r\n *\r\n * @see [ln] function\r\n * @see [expm1] function\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun ln1p(x: Double): Double = nativeMath.log1p(x)\r\n\r\n/**\r\n * Rounds the given value [x] to an integer towards positive infinity.\r\n\r\n * @return the smallest double value that is greater than or equal to the given value [x] and is a mathematical integer.\r\n *\r\n * Special cases:\r\n * - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun ceil(x: Double): Double = nativeMath.ceil(x).unsafeCast<Double>() // TODO: Remove unsafe cast after removing public js.math\r\n\r\n/**\r\n * Rounds the given value [x] to an integer towards negative infinity.\r\n\r\n * @return the largest double value that is smaller than or equal to the given value [x] and is a mathematical integer.\r\n *\r\n * Special cases:\r\n * - `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun floor(x: Double): Double = nativeMath.floor(x).unsafeCast<Double>()\r\n\r\n/**\r\n * Rounds the given value [x] to an integer towards zero.\r\n *\r\n * @return the value [x] having its fractional part truncated.\r\n *\r\n * Special cases:\r\n * -

`truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun truncate(x: Double): Double = nativeMath.trunc(x)\r\n\r\n/**\r\n * Rounds the given value [x] towards the closest integer with ties rounded towards even integer.\r\n *\r\n * Special cases:\r\n *   - `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual fun round(x: Double): Double {\r\n if (x % 0.5 != 0.0) {\r\n return nativeMath.round(x).unsafeCast<Double>()\r\n }\r\n val floor = floor(x)\r\n return if (floor % 2 == 0.0) floor else ceil(x)\r\n}\r\n\r\n/**\r\n * Returns the absolute value of the given value [x].\r\n *\r\n * Special cases:\r\n *   - `abs(NaN)` is `NaN`\r\n *\r\n * @see absoluteValue extension property for [Double]\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun abs(x: Double): Double = nativeMath.abs(x)\r\n\r\n/**\r\n * Returns the sign of the given value [x]:\r\n *   - `-1.0` if the value is negative,\r\n *   - zero if the value is zero,\r\n *   - `1.0` if the value is positive\r\n *\r\n * Special case:\r\n *   - `sign(NaN)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun sign(x: Double): Double = nativeMath.sign(x)\r\n\r\n\r\n/**\r\n * Returns the smaller of two values.\r\n *\r\n * If either value is `NaN`, then the result is `NaN`.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun min(a: Double, b: Double): Double = nativeMath.min(a, b)\r\n\r\n/**\r\n * Returns the greater of two values.\r\n *\r\n * If either value is `NaN`, then the result is `NaN`.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun max(a: Double, b: Double): Double = nativeMath.max(a, b)\r\n\r\n// extensions\r\n\r\n/**\r\n * Raises this value to the power [x].\r\n *\r\n * Special cases:\r\n *   - `b.pow(0.0)` is `1.0`\r\n *   - `b.pow(1.0) == b`\r\n *   - `b.pow(NaN)` is `NaN`\r\n *   - `NaN.pow(x)` is `NaN` for `x != 0.0`\r\n *   - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\r\n *   - `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun Double.pow(x: Double): Double = nativeMath.pow(this, x)\r\n\r\n/**\r\n * Raises this value to the integer power [n].\r\n *\r\n * See the other overload of [pow] for details.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun Double.pow(n: Int): Double = nativeMath.pow(this, n.toDouble())\r\n\r\n/**\r\n * Returns the absolute value of this value.\r\n *\r\n * Special cases:\r\n *   - `NaN.absoluteValue` is `NaN`\r\n *\r\n * @see abs function\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline val Double.absoluteValue: Double get() = nativeMath.abs(this)\r\n\r\n/**\r\n * Returns the sign of this value:\r\n *   - `-1.0` if the value is negative,\r\n *   - zero if the value is zero,\r\n *   - `1.0` if the value is positive\r\n *\r\n * Special case:\r\n *   - `NaN.sign` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline val Double.sign: Double get() = nativeMath.sign(this)\r\n\r\n/**\r\n * Returns this value with the sign bit same as of the [sign] value.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun Double.withSign(sign: Int): Double = this.withSign(sign.toDouble())\r\n\r\n/**\r\n * Returns the ulp (unit in the last place) of this value.\r\n *\r\n * An ulp is a positive distance between this value and the next nearest [Double] value larger in magnitude.\r\n *\r\n * Special Cases:\r\n *   - `NaN.ulp` is `NaN`\r\n *   - `x.ulp` is `+Inf` when `x` is `+Inf` or `-Inf`\r\n *   - `0.0.ulp` is `Double.MIN_VALUE`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual val Double.ulp: Double get() = when {\r\n this < 0 -> (-this).ulp\r\n this.isNaN() || this == Double.POSITIVE_INFINITY -> this\r\n this == Double.MAX_VALUE -> this - this.nextDown()\r\n else -> this.nextUp() - this\r\n}\r\n\r\n/**\r\n * Returns the [Double] value nearest to this value in direction of positive infinity.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual fun Double.nextUp(): Double = when {\r\n this.isNaN() || this == Double.POSITIVE_INFINITY -> this\r\n this == 0.0 -> Double.MIN_VALUE\r\n else -> Double.fromBits(this.toRawBits() + if (this > 0) 1 else -1)\r\n}\r\n\r\n/**\r\n * Returns the [Double] value nearest to this value in direction of negative infinity.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual fun Double.nextDown(): Double = when {\r\n this.isNaN() || this == Double.NEGATIVE_INFINITY -> this\r\n this == 0.0 -> -Double.MIN_VALUE\r\n else -> Double.fromBits(this.toRawBits() + if (this > 0) -1 else 1)\r\n}\r\n\r\n\r\n/**\r\n * Returns the [Double] value nearest to this value in direction from this value towards the value [to].\r\n *\r\n * Special cases:\r\n *   - `x.nextTowards(y)` is `NaN` if either `x` or `y` are `NaN`\r\n *   - `x.nextTowards(x) == x`\r\n *\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual fun Double.nextTowards(to: Double): Double = when {\r\n this.isNaN() || to.isNaN() -> Double.NaN\r\n to == this -> to\r\n to > this -> this.nextUp()\r\n else /* to < this

```
*/ -> this.nextDown()\r\n}\r\n\r\n\r\n/**\r\n * Rounds this [Double] value to the nearest integer and converts the result to [Int].\r\n * Ties are rounded towards positive infinity.\r\n *\r\n * Special cases:\r\n *   - `x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`\r\n *   - `x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`\r\n *\r\n * @throws IllegalArgumentException when this value is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual fun Double.roundToInt(): Int = when {\r\n    isNaN() -> throw IllegalArgumentException(\"Cannot round NaN value.\")\r\n    this > Int.MAX_VALUE -> Int.MAX_VALUE\r\n    this < Int.MIN_VALUE -> Int.MIN_VALUE\r\n    else -> nativeMath.round(this).unsafeCast<Double>().toInt()\r\n}\r\n\r\n/**\r\n * Rounds this [Double] value to the nearest integer and converts the result to [Long].\r\n * Ties are rounded towards positive infinity.\r\n *\r\n * Special cases:\r\n *   - `x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`\r\n *   - `x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE`\r\n *\r\n * @throws IllegalArgumentException when this value is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual fun Double.roundToLong(): Long = when {\r\n    isNaN() -> throw IllegalArgumentException(\"Cannot round NaN value.\")\r\n    this > Long.MAX_VALUE -> Long.MAX_VALUE\r\n    this < Long.MIN_VALUE -> Long.MIN_VALUE\r\n    else -> nativeMath.round(this).unsafeCast<Double>().toLong()\r\n}\r\n\r\n// endregion\r\n\r\n\r\n\r\n// region ================ Float Math ======================================\r\n\r\n/** Computes the sine of the angle [x] given in radians.\r\n *\r\n *  Special cases:\r\n *   - `sin(NaN|+Inf|-Inf)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun sin(x: Float): Float = nativeMath.sin(x.toDouble()).toFloat()\r\n\r\n\r\n/** Computes the cosine of the angle [x] given in radians.\r\n *\r\n * Special cases:\r\n *   - `cos(NaN|+Inf|-Inf)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun cos(x: Float): Float = nativeMath.cos(x.toDouble()).toFloat()\r\n\r\n\r\n/** Computes the tangent of the angle [x] given in radians.\r\n *\r\n *  Special cases:\r\n *   - `tan(NaN|+Inf|-Inf)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun tan(x: Float): Float = nativeMath.tan(x.toDouble()).toFloat()\r\n\r\n\r\n/**\r\n * Computes the arc sine of the value [x];\r\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\r\n *\r\n * Special cases:\r\n *    - `asin(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun asin(x: Float): Float = nativeMath.asin(x.toDouble()).toFloat()\r\n\r\n\r\n/**\r\n * Computes the arc cosine of the value [x];\r\n * the returned value is an angle in the range from `0.0` to `PI` radians.\r\n *\r\n * Special cases:\r\n *    - `acos(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun acos(x: Float): Float = nativeMath.acos(x.toDouble()).toFloat()\r\n\r\n\r\n/**\r\n * Computes the arc tangent of the value [x];\r\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\r\n *\r\n * Special cases:\r\n *   - `atan(NaN)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun atan(x: Float): Float = nativeMath.atan(x.toDouble()).toFloat()\r\n\r\n\r\n/**\r\n * Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond\r\n * to the rectangular coordinates `(x, y)` by computing the arc tangent of the value [y] / [x];\r\n * the returned value is an angle in the range from `-PI` to `PI` radians.\r\n *\r\n * Special cases:\r\n *   - `atan2(0.0, 0.0)` is `0.0`\r\n *   - `atan2(0.0, x)` is `0.0` for `x > 0` and `PI` for `x < 0`\r\n *   - `atan2(-0.0, x)` is `-0.0` for 'x > 0` and `-PI` for `x < 0`\r\n *   - `atan2(y, +Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for '-Inf < y < 0`\r\n *   - `atan2(y, -Inf)` is `PI` for `0 < y < +Inf` and `-PI` for `-Inf < y < 0`\r\n *   - `atan2(y, 0.0)` is `PI/2` for `y > 0` and `-PI/2` for `y < 0`\r\n *   - `atan2(+Inf, x)` is `PI/2` for finite `x`y\r\n *   - `atan2(-Inf, x)` is `-PI/2` for finite `x`\r\n *   - `atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun atan2(y: Float, x: Float): Float = nativeMath.atan2(y.toDouble(), x.toDouble()).toFloat()\r\n\r\n\r\n/**\r\n * Computes the hyperbolic sine of the value [x].\r\n *\r\n * Special cases:\r\n *   - `sinh(NaN)` is `NaN`\r\n *   - `sinh(+Inf)` is `+Inf`\r\n *   - `sinh(-Inf)` is `-Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun sinh(x: Float): Float = nativeMath.sinh(x.toDouble()).toFloat()\r\n\r\n\r\n/**\r\n * Computes the hyperbolic cosine of the value [x].\r\n *\r\n * Special cases:\r\n *   - `cosh(NaN)` is `NaN`\r\n *   - `cosh(+Inf|-Inf)` is `+Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun cosh(x: Float): Float =
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nativeMath.cosh(x.toDouble()).toFloat()\r\n\r\n/**\r\n * Computes the hyperbolic tangent of the value [x].\r\n *\r\n * Special cases:\r\n * - `tanh(NaN)` is `NaN`\r\n * - `tanh(+Inf)` is `1.0`\r\n * - `tanh(-Inf)` is `-1.0`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun tanh(x: Float): Float = nativeMath.tanh(x.toDouble()).toFloat()\r\n\r\n/**\r\n * Computes the inverse hyperbolic sine of the value [x].\r\n *\r\n * The returned value is `y` such that `sinh(y) == x`.\r\n *\r\n * Special cases:\r\n * - `asinh(NaN)` is `NaN`\r\n * - `asinh(+Inf)` is `+Inf`\r\n * - `asinh(-Inf)` is `-Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun asinh(x: Float): Float = nativeMath.asinh(x.toDouble()).toFloat()\r\n\r\n/**\r\n * Computes the inverse hyperbolic cosine of the value [x].\r\n *\r\n * The returned value is positive `y` such that `cosh(y) == x`.\r\n *\r\n * Special cases:\r\n * - `acosh(NaN)` is `NaN`\r\n * - `acosh(x)` is `NaN` when `x < 1`\r\n * - `acosh(+Inf)` is `+Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun acosh(x: Float): Float = nativeMath.acosh(x.toDouble()).toFloat()\r\n\r\n/**\r\n * Computes the inverse hyperbolic tangent of the value [x].\r\n *\r\n * The returned value is `y` such that `tanh(y) == x`.\r\n *\r\n * Special cases:\r\n * - `tanh(NaN)` is `NaN`\r\n * - `tanh(x)` is `NaN` when `x > 1` or `x < -1`\r\n * - `tanh(1.0)` is `+Inf`\r\n * - `tanh(-1.0)` is `-Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun atanh(x: Float): Float = nativeMath.atanh(x.toDouble()).toFloat()\r\n\r\n/**\r\n * Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow.\r\n *\r\n * Special cases:\r\n * - returns `+Inf` if any of arguments is infinite\r\n * - returns `NaN` if any of arguments is `NaN` and the other is not infinite\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun hypot(x: Float, y: Float): Float = nativeMath.hypot(x.toDouble(), y.toDouble()).toFloat()\r\n\r\n/**\r\n * Computes the positive square root of the value [x].\r\n *\r\n * Special cases:\r\n * - `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun sqrt(x: Float): Float = nativeMath.sqrt(x.toDouble()).toFloat()\r\n\r\n/**\r\n * Computes Euler's number `e` raised to the power of the value [x].\r\n *\r\n * Special cases:\r\n * - `exp(NaN)` is `NaN`\r\n * - `exp(+Inf)` is `+Inf`\r\n * - `exp(-Inf)` is `0.0`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun exp(x: Float): Float = nativeMath.exp(x.toDouble()).toFloat()\r\n\r\n/**\r\n * Computes `exp(x) - 1`.\r\n *\r\n * This function can be implemented to produce more precise result for [x] near zero.\r\n *\r\n * Special cases:\r\n * - `expm1(NaN)` is `NaN`\r\n * - `expm1(+Inf)` is `+Inf`\r\n * - `expm1(-Inf)` is `-1.0`\r\n *\r\n * @see [exp] function.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun expm1(x: Float): Float = nativeMath.expm1(x.toDouble()).toFloat()\r\n\r\n/**\r\n * Computes the logarithm of the value [x] to the given [base].\r\n *\r\n * Special cases:\r\n * - `log(x, b)` is `NaN` if either `x` or `b` are `NaN`\r\n * - `log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0`\r\n * - `log(+Inf, +Inf)` is `NaN`\r\n * - `log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1`\r\n * - `log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1`\r\n *\r\n * See also logarithm functions for common fixed bases: [ln], [log10] and [log2].\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun log(x: Float, base: Float): Float = log(x.toDouble(), base.toDouble()).toFloat()\r\n\r\n/**\r\n * Computes the natural logarithm (base `E`) of the value [x].\r\n *\r\n * Special cases:\r\n * - `ln(NaN)` is `NaN`\r\n * - `ln(x)` is `NaN` when `x < 0.0`\r\n * - `ln(+Inf)` is `+Inf`\r\n * - `ln(0.0)` is `-Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun ln(x: Float): Float = nativeMath.log(x.toDouble()).toFloat()\r\n\r\n/**\r\n * Computes the common logarithm (base 10) of the value [x].\r\n *\r\n * @see [ln] function for special cases.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun log10(x: Float): Float = nativeMath.log10(x.toDouble()).toFloat()\r\n\r\n/**\r\n * Computes the binary logarithm (base 2) of the value [x].\r\n *\r\n * @see [ln] function for special cases.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun log2(x: Float): Float = nativeMath.log2(x.toDouble()).toFloat()\r\n\r\n/**\r\n * Computes `ln(a + 1)`.\r\n *\r\n * This function can be implemented to produce more precise result for [x] near zero.\r\n *\r\n * Special cases:\r\n * - `ln1p(NaN)` is `NaN`\r\n * - `ln1p(x)` is `NaN` where `x < -1.0`\r\n * - `ln1p(-1.0)` is `-Inf`\r\n * - `ln1p(+Inf)` is `+Inf`\r\n *\r\n * @see [ln] function\r\n * @see [expm1] function\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun ln1p(x: Float): Float = nativeMath.log1p(x.toDouble()).toFloat()\r\n\r\n/**\r\n * Rounds the given value [x] to an integer towards positive

infinity.\r\n\r\n * @return the smallest Float value that is greater than or equal to the given value [x] and is a mathematical integer.\r\n *\r\n * Special cases:\r\n * - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun ceil(x: Float): Float = nativeMath.ceil(x.toDouble()).toFloat()\r\n\r\n/**\r\n * Rounds the given value [x] to an integer towards negative infinity.\r\n\r\n * @return the largest Float value that is smaller than or equal to the given value [x] and is a mathematical integer.\r\n *\r\n * Special cases:\r\n * - `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun floor(x: Float): Float = nativeMath.floor(x.toDouble()).toFloat()\r\n\r\n/**\r\n * Rounds the given value [x] to an integer towards zero.\r\n *\r\n * @return the value [x] having its fractional part truncated.\r\n *\r\n * Special cases:\r\n * - `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun truncate(x: Float): Float = truncate(x.toDouble()).toFloat()\r\n\r\n/**\r\n * Rounds the given value [x] towards the closest integer with ties rounded towards even integer.\r\n *\r\n * Special cases:\r\n * - `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun round(x: Float): Float = round(x.toDouble()).toFloat()\r\n\r\n/**\r\n * Returns the absolute value of the given value [x].\r\n *\r\n * Special cases:\r\n * - `abs(NaN)` is `NaN`\r\n *\r\n * @see absoluteValue extension property for [Float]\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun abs(x: Float): Float = nativeMath.abs(x.toDouble()).toFloat()\r\n\r\n/**\r\n * Returns the sign of the given value [x]:\r\n * - `-1.0` if the value is negative,\r\n * - zero if the value is zero,\r\n * - `1.0` if the value is positive\r\n *\r\n * Special case:\r\n * - `sign(NaN)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun sign(x: Float): Float = nativeMath.sign(x.toDouble()).toFloat()\r\n\r\n\r\n\r\n/**\r\n * Returns the smaller of two values.\r\n *\r\n * If either value is `NaN`, then the result is `NaN`.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun min(a: Float, b: Float): Float = nativeMath.min(a, b)\r\n\r\n/**\r\n * Returns the greater of two values.\r\n *\r\n * If either value is `NaN`, then the result is `NaN`.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun max(a: Float, b: Float): Float = nativeMath.max(a, b)\r\n\r\n// extensions\r\n\r\n\r\n/**\r\n * Raises this value to the power [x].\r\n *\r\n * Special cases:\r\n * - `b.pow(0.0)` is `1.0`\r\n * - `b.pow(1.0) == b`\r\n * - `b.pow(NaN)` is `NaN`\r\n * - `NaN.pow(x)` is `NaN` for `x != 0.0`\r\n * - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\r\n * - `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun Float.pow(x: Float): Float = nativeMath.pow(this.toDouble(), x.toDouble()).toFloat()\r\n\r\n/**\r\n * Raises this value to the integer power [n].\r\n *\r\n * See the other overload of [pow] for details.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun Float.pow(n: Int): Float = nativeMath.pow(this.toDouble(), n.toDouble()).toFloat()\r\n\r\n/**\r\n * Returns the absolute value of this value.\r\n *\r\n * Special cases:\r\n * - `NaN.absoluteValue` is `NaN`\r\n *\r\n * @see abs function\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline val Float.absoluteValue: Float get() = nativeMath.abs(this.toDouble()).toFloat()\r\n\r\n/**\r\n * Returns the sign of this value:\r\n * - `-1.0` if the value is negative,\r\n * - zero if the value is zero,\r\n * - `1.0` if the value is positive\r\n *\r\n * Special case:\r\n * - `NaN.sign` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline val Float.sign: Float get() = nativeMath.sign(this.toDouble()).toFloat()\r\n\r\n/**\r\n * Returns this value with the sign bit same as of the [sign] value.\r\n *\r\n * If [sign] is `NaN` the sign of the result is undefined.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun Float.withSign(sign: Float): Float = this.toDouble().withSign(sign.toDouble()).toFloat()\r\n\r\n/**\r\n * Returns this value with the sign bit same as of the [sign] value.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun Float.withSign(sign: Int): Float = this.toDouble().withSign(sign.toDouble()).toFloat()\r\n\r\n\r\n\r\n/**\r\n * Rounds this [Float] value to the nearest integer and converts the result to [Int].\r\n * Ties are rounded towards positive infinity.\r\n *\r\n * Special cases:\r\n * - `x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`\r\n * - `x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`\r\n *\r\n * @throws IllegalArgumentException when this value is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun Float.roundToInt(): Int = toDouble().roundToInt()\r\n\r\n/**\r\n * Rounds this [Float] value to the nearest integer and converts the result to

[Long].\r\n * Ties are rounded towards positive infinity.\r\n *\r\n * Special cases:\r\n * - `x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`\r\n * - `x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE`\r\n *\r\n * @throws IllegalArgumentException when this value is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun Float.roundToLong(): Long = toDouble().roundToLong()\r\n\r\n\r\n// endregion\r\n\r\n// region ================ Integer Math ==\r\n\r\n\r\n/**\r\n * Returns the absolute value of the given value [n].\r\n *\r\n * Special cases:\r\n * - `abs(Int.MIN_VALUE)` is `Int.MIN_VALUE` due to an overflow\r\n *\r\n * @see absoluteValue extension property for [Int]\r\n */\r\n// TODO: remove manual 'or' when KT-19290 is fixed\r\n@SinceKotlin(\"1.2\")\r\npublic actual fun abs(n: Int): Int = if (n < 0) (-n or 0) else n\r\n\r\n/**\r\n * Returns the smaller of two values.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun min(a: Int, b: Int): Int = nativeMath.min(a, b)\r\n\r\n/**\r\n * Returns the greater of two values.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline fun max(a: Int, b: Int): Int = nativeMath.max(a, b)\r\n\r\n/**\r\n * Returns the absolute value of this value.\r\n *\r\n * Special cases:\r\n * - `Int.MIN_VALUE.absoluteValue` is `Int.MIN_VALUE` due to an overflow\r\n *\r\n * @see abs function\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline val Int.absoluteValue: Int get() = abs(this)\r\n\r\n/**\r\n * Returns the sign of this value:\r\n * - `-1` if the value is negative,\r\n * - `0` if the value is zero,\r\n * - `1` if the value is positive\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual val Int.sign: Int get() = when {\r\n   this < 0 -> -1\r\n   this > 0 -> 1\r\n   else -> 0\r\n}\r\n\r\n\r\n\r\n/**\r\n * Returns the absolute value of the given value [n].\r\n *\r\n * Special cases:\r\n * - `abs(Long.MIN_VALUE)` is `Long.MIN_VALUE` due to an overflow\r\n *\r\n * @see absoluteValue extension property for [Long]\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual fun abs(n: Long): Long = if (n < 0) -n else n\r\n\r\n/**\r\n * Returns the smaller of two values.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@Suppress(\"NOTHING_TO_INLINE\")\r\npublic actual inline fun min(a: Long, b: Long): Long = if (a <= b) a else b\r\n\r\n/**\r\n * Returns the greater of two values.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@Suppress(\"NOTHING_TO_INLINE\")\r\npublic actual inline fun max(a: Long, b: Long): Long = if (a >= b) a else b\r\n\r\n/**\r\n * Returns the absolute value of this value.\r\n *\r\n * Special cases:\r\n * - `Long.MIN_VALUE.absoluteValue` is `Long.MIN_VALUE` due to an overflow\r\n *\r\n * @see abs function\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\npublic actual inline val Long.absoluteValue: Long get() = abs(this)\r\n\r\n/**\r\n * Returns the sign of this value:\r\n * - `-1` if the value is negative,\r\n * - `0` if the value is zero,\r\n * - `1` if the value is positive\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual val Long.sign: Int get() = when {\r\n   this < 0 -> -1\r\n   this > 0 -> 1\r\n   else -> 0\r\n}\r\n\r\n\r\n\r\n// endregion\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin\r\n\r\n\r\n/**\r\n * Returns `true` if the specified number is a\r\n * Not-a-Number (NaN) value, `false` otherwise.\r\n */\r\npublic actual fun Double.isNaN(): Boolean = this != this\r\n\r\n\r\n/**\r\n * Returns `true` if the specified number is a\r\n * Not-a-Number (NaN) value, `false` otherwise.\r\n */\r\npublic actual fun Float.isNaN(): Boolean = this != this\r\n\r\n\r\n/**\r\n * Returns `true` if this value is infinitely large in magnitude.\r\n */\r\npublic actual fun Double.isInfinite(): Boolean = this == Double.POSITIVE_INFINITY || this == Double.NEGATIVE_INFINITY\r\n\r\n\r\n/**\r\n * Returns `true` if this value is infinitely large in magnitude.\r\n */\r\npublic actual fun Float.isInfinite(): Boolean = this == Float.POSITIVE_INFINITY || this == Float.NEGATIVE_INFINITY\r\n\r\n\r\n/**\r\n * Returns `true` if the argument is a finite floating-point value; returns `false` otherwise (for `NaN` and infinity arguments).\r\n */\r\npublic actual fun Double.isFinite(): Boolean = !isInfinite() && !isNaN()\r\n\r\n\r\n/**\r\n * Returns `true` if the argument is a finite floating-point value; returns `false` otherwise (for `NaN` and infinity arguments).\r\n */\r\npublic actual fun Float.isFinite(): Boolean = !isInfinite() && !isNaN()\r\n\r\n\r\n\r\n/**\r\n * Counts the number of set bits in the binary representation of this [Int] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic actual fun Int.countOneBits(): Int {\r\n   // Hacker's Delight 5-1 algorithm\r\n   var v = this\r\n   v = (v and 0x55555555) + (v.ushr(1) and 0x55555555)\r\n   v = (v and 0x33333333) + (v.ushr(2) and 0x33333333)\r\n   v = (v and 0x0F0F0F0F) + (v.ushr(4) and 0x0F0F0F0F)\r\n   v = (v and 0x00FF00FF) + (v.ushr(8) and 0x00FF00FF)\r\n   v = (v and

0x0000FFFF) + (v.ushr(16))\r\n   return v\r\n}\r\n\r\n/**\r\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Int] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@Suppress(\"DEPRECATION\")\r\n@kotlin.internal.InlineOnly\r\npublic actual inline fun Int.countLeadingZeroBits(): Int = kotlin.js.Math.clz32(this)\r\n\r\n/**\r\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Int] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic actual fun Int.countTrailingZeroBits(): Int =\r\n   // Hacker's Delight 5-4 algorithm for expressing countTrailingZeroBits with countLeadingZeroBits\r\n   Int.SIZE_BITS - (this or -this).inv().countLeadingZeroBits()\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the most significant set bit of this [Int] number,\r\n * or zero, if this number is zero.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic actual fun Int.takeHighestOneBit(): Int =\r\n   if (this == 0) 0 else 1.shl(Int.SIZE_BITS - 1 - countLeadingZeroBits())\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the least significant set bit of this [Int] number,\r\n * or zero, if this number is zero.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic actual fun Int.takeLowestOneBit(): Int =\r\n   // Hacker's Delight 2-1 algorithm for isolating rightmost 1-bit\r\n   this and -this\r\n\r\n/**\r\n * Rotates the binary representation of this [Int] number left by the specified [bitCount] number of bits.\r\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\r\n *\r\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\r\n * `number.rotateLeft(-n) == number.rotateRight(n)`\r\n *\r\n * Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally\r\n * `number.rotateLeft(n) == number.rotateLeft(n % 32)`\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic actual fun Int.rotateLeft(bitCount: Int): Int =\r\n   shl(bitCount) or ushr(Int.SIZE_BITS - bitCount)\r\n\r\n/**\r\n * Rotates the binary representation of this [Int] number right by the specified [bitCount] number of bits.\r\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\r\n *\r\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\r\n * `number.rotateRight(-n) == number.rotateLeft(n)`\r\n *\r\n * Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally\r\n * `number.rotateRight(n) == number.rotateRight(n % 32)`\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic actual fun Int.rotateRight(bitCount: Int): Int =\r\n   shl(Int.SIZE_BITS - bitCount) or ushr(bitCount)\r\n\r\n/**\r\n * Counts the number of set bits in the binary representation of this [Long] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic actual fun Long.countOneBits(): Int =\r\n   high.countOneBits() + low.countOneBits()\r\n\r\n/**\r\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Long] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic actual fun Long.countLeadingZeroBits(): Int =\r\n   when (val high = this.high) {\r\n   0 -> Int.SIZE_BITS + low.countLeadingZeroBits()\r\n   else -> high.countLeadingZeroBits()\r\n   }\r\n\r\n/**\r\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Long] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic actual fun Long.countTrailingZeroBits(): Int =\r\n   when (val low = this.low) {\r\n   0 -> Int.SIZE_BITS + high.countTrailingZeroBits()\r\n   else -> low.countTrailingZeroBits()\r\n   }\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the most significant set bit of this [Long] number,\r\n * or zero, if this number is zero.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic actual fun Long.takeHighestOneBit(): Long =\r\n   when (val high = this.high) {\r\n   0 -> Long(low.takeHighestOneBit(), 0)\r\n   else -> Long(0, high.takeHighestOneBit())\r\n   }\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the least significant set bit of this [Long] number,\r\n * or zero, if this number is zero.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic actual fun Long.takeLowestOneBit(): Long =\r\n   when (val low = this.low) {\r\n   0 -> Long(0, high.takeLowestOneBit())\r\n   else -> Long(low.takeLowestOneBit(), 0)\r\n   }\r\n\r\n/**\r\n * Rotates the binary representation of this [Long] number left by the specified [bitCount] number of bits.\r\n * The most significant bits pushed out from the left side reenter

the number as the least significant bits on the right side.\r\n *\r\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\r\n * `number.rotateLeft(-n) == number.rotateRight(n)`\r\n *\r\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally\r\n * `number.rotateLeft(n) == number.rotateLeft(n % 64)`\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic actual fun Long.rotateLeft(bitCount: Int): Long {\r\n if ((bitCount and 31) != 0) {\r\n val low = this.low\r\n val high = this.high\r\n val newLow = low.shl(bitCount) or high.ushr(-bitCount)\r\n val newHigh = high.shl(bitCount) or low.ushr(-bitCount)\r\n return if ((bitCount and 32) == 0) Long(newLow, newHigh) else Long(newHigh, newLow)\r\n } else {\r\n return if ((bitCount and 32) == 0) this else Long(high, low)\r\n }\r\n}\r\n\r\n\r\n/**\r\n * Rotates the binary representation of this [Long] number right by the specified [bitCount] number of bits.\r\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\r\n *\r\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\r\n * `number.rotateRight(-n) == number.rotateLeft(n)`\r\n *\r\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally\r\n * `number.rotateRight(n) == number.rotateRight(n % 64)`\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@kotlin.internal.InlineOnly\r\npublic actual inline fun Long.rotateRight(bitCount: Int): Long = rotateLeft(-bitCount)\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.js\r\n\r\nimport kotlin.internal.LowPriorityInOverloadResolution\r\n\r\n/**\r\n * Exposes the JavaScript [Promise object](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/Promise) to Kotlin.\r\n */\r\n@Suppress(\"NOT_DOCUMENTED\")\r\npublic open external class Promise<out T>(executor: (resolve: (T) -> Unit, reject: (Throwable) -> Unit) -> Unit) {\r\n @LowPriorityInOverloadResolution\r\n public open fun <S> then(onFulfilled: ((T) -> S)?): Promise<S>\r\n\r\n @LowPriorityInOverloadResolution\r\n public open fun <S> then(onFulfilled: ((T) -> S)?, onRejected: ((Throwable) -> S)?): Promise<S>\r\n\r\n public open fun <S> catch(onRejected: (Throwable) -> S): Promise<S>\r\n\r\n companion object {\r\n public fun <S> all(promise: Array<out Promise<S>>): Promise<Array<out S>>\r\n\r\n public fun <S> race(promise: Array<out Promise<S>>): Promise<S>\r\n\r\n public fun reject(e: Throwable): Promise<Nothing>\r\n\r\n public fun <S> resolve(e: S): Promise<S>\r\n public fun <S> resolve(e: Promise<S>): Promise<S>\r\n }\r\n}\r\n\r\n// It's workaround for KT-19672 since we can fix it properly until KT-11265 isn't fixed.\r\ninline fun <T, S> Promise<Promise<T>>.then(\r\n noinline onFulfilled: ((T) -> S)?\r\n): Promise<S> {\r\n return this.unsafeCast<Promise<T>>().then(onFulfilled)\r\n}\r\n\r\ninline fun <T, S> Promise<Promise<T>>.then(\r\n noinline onFulfilled: ((T) -> S)?,\r\n noinline onRejected: ((Throwable) -> S)?\r\n): Promise<S> {\r\n return this.unsafeCast<Promise<T>>().then(onFulfilled, onRejected)\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.random\r\n\r\nimport kotlin.math.pow\r\n\r\ninternal actual fun defaultPlatformRandom(): Random =\r\n Random(js(\"(Math.random() * Math.pow(2, 32)) | 0\").unsafeCast<Int>())\r\n\r\n\r\nprivate val INV_2_26: Double = 2.0.pow(-26)\r\nprivate val INV_2_53: Double = 2.0.pow(-53)\r\ninternal actual fun doubleFromParts(hi26: Int, low27: Int): Double =\r\n hi26 * INV_2_26 + low27 * INV_2_53","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.js\r\n\r\nimport getKClass\r\nimport kotlin.reflect.KClass\r\nimport kotlin.reflect.js.internal.KClassImpl\r\n\r\n/**\r\n * Represents the constructor of a class. Instances of `JsClass` can be passed to JavaScript APIs that expect a constructor reference.\r\n */\r\nexternal interface JsClass<T : Any> {\r\n /**\r\n * Returns the unqualified name of the class represented by this instance.\r\n */\r\n val name: String\r\n}\r\n\r\n@Deprecated(\"Use class literal and extension property `js` instead.\", replaceWith = ReplaceWith(\"T::class.js\"), level = DeprecationLevel.ERROR)\r\nexternal fun <T : Any> jsClass(): JsClass<T>\r\n\r\n@Deprecated(\"Use class literal and extension property `js` instead.\", replaceWith = ReplaceWith(\"this::class.js\"), level = DeprecationLevel.ERROR)\r\nval <T : Any> T.jsClass: JsClass<T>\r\n

get() = when (jsTypeOf(this)) {\r\n \"string\" -> js(\"String\")\r\n \"number\" -> js(\"Number\")\r\n \"boolean\" -> js(\"Boolean\")\r\n else -> js(\"Object\").getPrototypeOf(this).constructor\r\n }\r\n\r\n/**\r\n * Obtains a constructor reference for the given `KClass`.\r\n */\r\nval <T : Any> KClass<T>.js: JsClass<T>\r\n get() = (this as KClassImpl<T>).jClass\r\n\r\n/**\r\n * Obtains a `KClass` instance for the given constructor reference.\r\n */\r\nval <T : Any> JsClass<T>.kotlin: KClass<T>\r\n get() = getKClass(this)\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.reflect.js.internal\r\n\r\nimport kotlin.reflect.*\r\n\r\ninternal abstract class KClassImpl<T : Any>(\r\n internal open val jClass: JsClass<T>\r\n) : KClass<T> {\r\n override val annotations: List<Annotation>\r\n get() = TODO()\r\n override val constructors: Collection<KFunction<T>>\r\n get() = TODO()\r\n override val isAbstract: Boolean\r\n get() = TODO()\r\n override val isCompanion: Boolean\r\n get() = TODO()\r\n override val isData: Boolean\r\n get() = TODO()\r\n override val isFinal: Boolean\r\n get() = TODO()\r\n override val isInner: Boolean\r\n get() = TODO()\r\n override val isOpen: Boolean\r\n get() = TODO()\r\n override val isSealed: Boolean\r\n get() = TODO()\r\n override val members: Collection<KCallable<*>>\r\n get() = TODO()\r\n override val nestedClasses: Collection<KClass<*>>\r\n get() = TODO()\r\n override val objectInstance: T?\r\n get() = TODO()\r\n override val qualifiedName: String?\r\n get() = TODO()\r\n override val supertypes: List<KType>\r\n get() = TODO()\r\n override val typeParameters: List<KTypeParameter>\r\n get() = TODO()\r\n override val sealedSubclasses: List<KClass<out T>>\r\n get() = TODO()\r\n override val visibility: KVisibility?\r\n get() = TODO()\r\n\r\n override fun equals(other: Any?): Boolean {\r\n return other is KClassImpl<*> && jClass == other.jClass\r\n }\r\n\r\n // TODO: use FQN\r\n override fun hashCode(): Int = simpleName?.hashCode() ?: 0\r\n\r\n override fun toString(): String {\r\n // TODO: use FQN\r\n return \"class $simpleName\"\r\n }\r\n}\r\n\r\ninternal class SimpleKClassImpl<T : Any>(jClass: JsClass<T>) : KClassImpl<T>(jClass) {\r\n override val simpleName: String? = jClass.asDynamic().`$metadata$`?.simpleName.unsafeCast<String?>()\r\n\r\n override fun isInstance(value: Any?): Boolean {\r\n return jsIsType(value, jClass)\r\n }\r\n}\r\n\r\ninternal class PrimitiveKClassImpl<T : Any>(\r\n jClass: JsClass<T>,\r\n private val givenSimpleName: String,\r\n private val isInstanceFunction: (Any?) -> Boolean\r\n) : KClassImpl<T>(jClass) {\r\n override fun equals(other: Any?): Boolean {\r\n if (other !is PrimitiveKClassImpl<*>) return false\r\n return super.equals(other) && givenSimpleName == other.givenSimpleName\r\n }\r\n\r\n override val simpleName: String? get() = givenSimpleName\r\n\r\n override fun isInstance(value: Any?): Boolean {\r\n return isInstanceFunction(value)\r\n }\r\n}\r\n\r\ninternal object NothingKClassImpl : KClassImpl<Nothing>(js(\"Object\")) {\r\n override val simpleName: String = \"Nothing\"\r\n\r\n override fun isInstance(value: Any?): Boolean = false\r\n\r\n override val jClass: JsClass<Nothing>\r\n get() = throw UnsupportedOperationException(\"There's no native JS class for Nothing type\")\r\n\r\n override fun equals(other: Any?): Boolean = other === this\r\n\r\n override fun hashCode(): Int = 0\r\n}","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.reflect.js.internal\r\n\r\nimport kotlin.js.JsClass\r\n\r\n@JsName(\"PrimitiveClasses\")\r\ninternal object PrimitiveClasses {\r\n @JsName(\"anyClass\")\r\n val anyClass = PrimitiveKClassImpl(js(\"Object\").unsafeCast<JsClass<Any>>(), \"Any\", { it is Any })\r\n\r\n @JsName(\"numberClass\")\r\n val numberClass = PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Number>>(), \"Number\", { it is Number })\r\n\r\n @JsName(\"nothingClass\")\r\n val nothingClass = NothingKClassImpl\r\n\r\n @JsName(\"booleanClass\")\r\n val booleanClass = PrimitiveKClassImpl(js(\"Boolean\").unsafeCast<JsClass<Boolean>>(), \"Boolean\", { it is Boolean })\r\n\r\n @JsName(\"byteClass\")\r\n val byteClass = PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Byte>>(), \"Byte\", { it is Byte })\r\n\r\n @JsName(\"shortClass\")\r\n val shortClass = PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Short>>(), \"Short\", { it is Short })\r\n\r\n

@JsName(\"intClass\")\r\n   val intClass = PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Int>>(), \"Int\", { it is Int })\r\n\r\n   @JsName(\"floatClass\")\r\n   val floatClass = PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Float>>(), \"Float\", { it is Float })\r\n\r\n   @JsName(\"doubleClass\")\r\n   val doubleClass = PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Double>>(), \"Double\", { it is Double })\r\n\r\n   @JsName(\"arrayClass\")\r\n   val arrayClass = PrimitiveKClassImpl(js(\"Array\").unsafeCast<JsClass<Array<*>>>(), \"Array\", { it is Array<*> })\r\n\r\n   @JsName(\"stringClass\")\r\n   val stringClass = PrimitiveKClassImpl(js(\"String\").unsafeCast<JsClass<String>>(), \"String\", { it is String })\r\n\r\n   @JsName(\"throwableClass\")\r\n   val throwableClass = PrimitiveKClassImpl(js(\"Error\").unsafeCast<JsClass<Throwable>>(), \"Throwable\", { it is Throwable })\r\n\r\n   @JsName(\"booleanArrayClass\")\r\n   val booleanArrayClass = PrimitiveKClassImpl(js(\"Array\").unsafeCast<JsClass<BooleanArray>>(), \"BooleanArray\", { it is BooleanArray })\r\n\r\n   @JsName(\"charArrayClass\")\r\n   val charArrayClass = PrimitiveKClassImpl(js(\"Uint16Array\").unsafeCast<JsClass<CharArray>>(), \"CharArray\", { it is CharArray })\r\n\r\n   @JsName(\"byteArrayClass\")\r\n   val byteArrayClass = PrimitiveKClassImpl(js(\"Int8Array\").unsafeCast<JsClass<ByteArray>>(), \"ByteArray\", { it is ByteArray })\r\n\r\n   @JsName(\"shortArrayClass\")\r\n   val shortArrayClass = PrimitiveKClassImpl(js(\"Int16Array\").unsafeCast<JsClass<ShortArray>>(), \"ShortArray\", { it is ShortArray })\r\n\r\n   @JsName(\"intArrayClass\")\r\n   val intArrayClass = PrimitiveKClassImpl(js(\"Int32Array\").unsafeCast<JsClass<IntArray>>(), \"IntArray\", { it is IntArray })\r\n\r\n   @JsName(\"longArrayClass\")\r\n   val longArrayClass = PrimitiveKClassImpl(js(\"Array\").unsafeCast<JsClass<LongArray>>(), \"LongArray\", { it is LongArray })\r\n\r\n   @JsName(\"floatArrayClass\")\r\n   val floatArrayClass = PrimitiveKClassImpl(js(\"Float32Array\").unsafeCast<JsClass<FloatArray>>(), \"FloatArray\", { it is FloatArray })\r\n\r\n   @JsName(\"doubleArrayClass\")\r\n   val doubleArrayClass = PrimitiveKClassImpl(js(\"Float64Array\").unsafeCast<JsClass<DoubleArray>>(), \"DoubleArray\", { it is DoubleArray })\r\n\r\n   @JsName(\"functionClass\")\r\n   fun functionClass(arity: Int): KClassImpl<Any> {\r\n   return functionClasses.get(arity) ?: run {\r\n   val result = PrimitiveKClassImpl(js(\"Function\").unsafeCast<JsClass<Any>>(), \"Function$arity\",\r\n   { jsTypeOf(it) === \"function\" && it.asDynamic().length === arity })\r\n   functionClasses.asDynamic()[arity] = result\r\n   result\r\n   }\r\n   }\r\n}\r\n\r\nprivate val functionClasses = arrayOfNulls<KClassImpl<Any>>(0)","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// a package is omitted to get declarations directly under the module\r\n\r\nimport kotlin.reflect.KClass\r\nimport kotlin.reflect.js.internal.*\r\n\r\n@JsName(\"getKClass\")\r\ninternal fun <T : Any> getKClass(jClass: JsClass<T>): KClass<T> = getOrCreateKClass(jClass)\r\n\r\n@JsName(\"getKClassFromExpression\")\r\ninternal fun <T : Any> getKClassFromExpression(e: T): KClass<T> =\r\n   when (jsTypeOf(e)) {\r\n   \"string\" -> PrimitiveClasses.stringClass\r\n   \"number\" -> if (jsBitwiseOr(e, 0).asDynamic() === e) PrimitiveClasses.intClass else PrimitiveClasses.doubleClass\r\n   \"boolean\" -> PrimitiveClasses.booleanClass\r\n   \"function\" -> PrimitiveClasses.functionClass(e.asDynamic().length)\r\n   else -> {\r\n   when {\r\n   e is BooleanArray -> PrimitiveClasses.booleanArrayClass\r\n   e is CharArray -> PrimitiveClasses.charArrayClass\r\n   e is ByteArray -> PrimitiveClasses.byteArrayClass\r\n   e is ShortArray -> PrimitiveClasses.shortArrayClass\r\n   e is IntArray -> PrimitiveClasses.intArrayClass\r\n   e is LongArray -> PrimitiveClasses.longArrayClass\r\n   e is FloatArray -> PrimitiveClasses.floatArrayClass\r\n   e is DoubleArray -> PrimitiveClasses.doubleArrayClass\r\n   e is KClass<*> -> KClass::class\r\n   e is Array<*> ->

PrimitiveClasses.arrayClass\r\n else -> {\r\n val constructor = js(\"Object\").getPrototypeOf(e).constructor\r\n when {\r\n constructor === js(\"Object\") -> PrimitiveClasses.anyClass\r\n constructor === js(\"Error\") -> PrimitiveClasses.throwableClass\r\n else -> {\r\n val jsClass: JsClass<T> = constructor\r\n getOrCreateKClass(jsClass)\r\n }\r\n }\r\n }\r\n }\r\n }\r\n }.unsafeCast<KClass<T>>()\r\n\r\nprivate fun <T : Any> getOrCreateKClass(jClass: JsClass<T>): KClass<T> {\r\n if (jClass === js(\"String\")) return PrimitiveClasses.stringClass.unsafeCast<KClass<T>>()\r\n\r\n val metadata = jClass.asDynamic().`$metadata$`\r\n\r\n return if (metadata != null) {\r\n if (metadata.`$kClass$` == null) {\r\n val kClass = SimpleKClassImpl(jClass)\r\n metadata.`$kClass$` = kClass\r\n kClass\r\n } else {\r\n metadata.`$kClass$`\r\n }\r\n } else {\r\n SimpleKClassImpl(jClass)\r\n }\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.js\r\n\r\n/**\r\n * Exposes the JavaScript [RegExp object](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/RegExp) to Kotlin.\r\n */\r\n@Suppress(\"NOT_DOCUMENTED\")\r\npublic external class RegExp(pattern: String, flags: String? = definedExternally) {\r\n\r\n public fun test(str: String): Boolean\r\n\r\n public fun exec(str: String): RegExpMatch?\r\n\r\n public override fun toString(): String\r\n\r\n /**\r\n * The lastIndex is a read/write integer property of regular expressions that specifies the index at which to start the next match.\r\n */\r\n public var lastIndex: Int\r\n\r\n public val global: Boolean\r\n public val ignoreCase: Boolean\r\n public val multiline: Boolean\r\n}\r\n\r\n/**\r\n * Resets the regular expression so that subsequent [RegExp.test] and [RegExp.exec] calls will match starting with the beginning of the input string.\r\n */\r\npublic fun RegExp.reset() {\r\n lastIndex = 0\r\n}\r\n\r\n// TODO: Inherit from array or introduce asArray() extension\r\n/**\r\n * Represents the return value of [RegExp.exec].\r\n */\r\n@Suppress(\"NOT_DOCUMENTED\")\r\npublic external interface RegExpMatch {\r\n public val index: Int\r\n public val input: String\r\n public val length: Int\r\n}\r\n\r\n/**\r\n * Returns the entire text matched by [RegExp.exec] if the [index] parameter is 0, or the text matched by the capturing parenthesis\r\n * at the given index.\r\n */\r\npublic inline operator fun RegExpMatch.get(index: Int): String? = asDynamic()[index]\r\n\r\n/**\r\n * Converts the result of [RegExp.exec] to an array where the first element contains the entire matched text and each subsequent\r\n * element is the text matched by each capturing parenthesis.\r\n */\r\npublic inline fun RegExpMatch.asArray(): Array<out String?> = unsafeCast<Array<out String?>>()\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.sequences\r\n\r\ninternal actual class ConstrainedOnceSequence<T> actual constructor(sequence: Sequence<T>) : Sequence<T> {\r\n private var sequenceRef: Sequence<T>? = sequence\r\n\r\n actual override fun iterator(): Iterator<T> {\r\n val sequence = sequenceRef ?: throw IllegalStateException(\"This sequence can be consumed only once.\")\r\n sequenceRef = null\r\n return sequence.iterator()\r\n }\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.text\r\n\r\n// actually \\s is enough to match all whitespace, but \\xA0 added because of different regexp behavior of Rhino used in Selenium tests\r\npublic actual fun Char.isWhitespace(): Boolean = toString().matches(\"[\\\\s\\\\xA0]\")\r\n\r\n@kotlin.internal.InlineOnly\r\npublic actual inline fun Char.toLowerCase(): Char = js(\"String.fromCharCode\")(toInt()).toLowerCase().charCodeAt(0).unsafeCast<Int>().toChar()\r\n\r\n@kotlin.internal.InlineOnly\r\npublic actual inline fun Char.toUpperCase(): Char = js(\"String.fromCharCode\")(toInt()).toUpperCase().charCodeAt(0).unsafeCast<Int>().toChar()\r\n\r\n/**\r\n * Returns `true` if this character is a Unicode high-surrogate code unit (also known as leading-surrogate code unit).\r\n */\r\npublic actual fun Char.isHighSurrogate(): Boolean = this in Char.MIN_HIGH_SURROGATE..Char.MAX_HIGH_SURROGATE\r\n\r\n/**\r\n * Returns `true` if this character is a Unicode low-surrogate code unit (also known as trailing-surrogate code unit).\r\n */\r\npublic actual fun

Char.isLowSurrogate(): Boolean = this in Char.MIN_LOW_SURROGATE..Char.MAX_LOW_SURROGATE\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.text\r\n\r\n\r\n/**\r\n * Returns `true` if the contents of this string is equal to the word \"true\", ignoring case, and `false` otherwise.\r\n */\r\npublic actual fun String.toBoolean(): Boolean = toLowerCase() == \"true\"\r\n\r\n/**\r\n * Parses the string as a signed [Byte] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n */\r\npublic actual fun String.toByte(): Byte = toByteOrNull() ?: numberFormatError(this)\r\n\r\n/**\r\n * Parses the string as a signed [Byte] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\r\n */\r\npublic actual fun String.toByte(radix: Int): Byte = toByteOrNull(radix) ?: numberFormatError(this)\r\n\r\n\r\n/**\r\n * Parses the string as a [Short] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n */\r\npublic actual fun String.toShort(): Short = toShortOrNull() ?: numberFormatError(this)\r\n\r\n/**\r\n * Parses the string as a [Short] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\r\n */\r\npublic actual fun String.toShort(radix: Int): Short = toShortOrNull(radix) ?: numberFormatError(this)\r\n\r\n/**\r\n * Parses the string as an [Int] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n */\r\npublic actual fun String.toInt(): Int = toIntOrNull() ?: numberFormatError(this)\r\n\r\n/**\r\n * Parses the string as an [Int] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\r\n */\r\npublic actual fun String.toInt(radix: Int): Int = toIntOrNull(radix) ?: numberFormatError(this)\r\n\r\n/**\r\n * Parses the string as a [Long] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n */\r\npublic actual fun String.toLong(): Long = toLongOrNull() ?: numberFormatError(this)\r\n\r\n/**\r\n * Parses the string as a [Long] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\r\n */\r\npublic actual fun String.toLong(radix: Int): Long = toLongOrNull(radix) ?: numberFormatError(this)\r\n\r\n/**\r\n * Parses the string as a [Double] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n */\r\npublic actual fun String.toDouble(): Double = (+(this.asDynamic())).unsafeCast<Double>().also {\r\n   if (it.isNaN() && !this.isNaN() || it == 0.0 && this.isBlank())\r\n   numberFormatError(this)\r\n}\r\n\r\n/**\r\n * Parses the string as a [Float] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic actual inline fun String.toFloat(): Float = toDouble().unsafeCast<Float>()\r\n\r\n/**\r\n * Parses the string as a [Double] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n */\r\npublic actual fun String.toDoubleOrNull(): Double? = (+(this.asDynamic())).unsafeCast<Double>().takeIf {\r\n   !(it.isNaN() && !this.isNaN() || it == 0.0 && this.isBlank())\r\n}\r\n\r\n/**\r\n * Parses the string as a [Float] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic actual inline fun String.toFloatOrNull(): Float? = toDoubleOrNull().unsafeCast<Float?>()\r\n\r\n/**\r\n * Returns a string representation of this [Byte] value in the specified [radix].\r\n *\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@kotlin.internal.InlineOnly\r\npublic actual inline fun Byte.toString(radix: Int): String = this.toInt().toString(radix)\r\n\r\n/**\r\n * Returns a string representation of this [Short] value in the specified [radix].\r\n *\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@kotlin.internal.InlineOnly\r\npublic actual inline fun

Short.toString(radix: Int): String = this.toInt().toString(radix)\r\n\r\n/**\r\n * Returns a string representation of this [Int] value in the specified [radix].\r\n *\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic actual fun Int.toString(radix: Int): String = asDynamic().toString(checkRadix(radix))\r\n\r\nprivate fun String.isNaN(): Boolean = when (this.toLowerCase()) {\r\n \"nan\", \"+nan\", \"-nan\" -> true\r\n else -> false\r\n}\r\n\r\n/**\r\n * Checks whether the given [radix] is valid radix for string to number and number to string conversion.\r\n */\r\n@PublishedApi\r\ninternal actual fun checkRadix(radix: Int): Int {\r\n if (radix !in 2..36) {\r\n throw IllegalArgumentException(\"radix $radix was not in valid range 2..36\")\r\n }\r\n return radix\r\n}\r\n\r\ninternal actual fun digitOf(char: Char, radix: Int): Int = when {\r\n char >= '0' && char <= '9' -> char - '0'\r\n char >= 'A' && char <= 'Z' -> char - 'A' + 10\r\n char >= 'a' && char <= 'z' -> char - 'a' + 10\r\n else -> -1\r\n}.let { if (it >= radix) -1 else it }\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.text\r\n\r\nimport kotlin.js.RegExp\r\n\r\n/**\r\n * Provides enumeration values to use to set regular expression options.\r\n */\r\npublic actual enum class RegexOption(val value: String) {\r\n /** Enables case-insensitive matching. */\r\n IGNORE_CASE(\"i\"),\r\n /** Enables multiline mode.\r\n *\r\n * In multiline mode the expressions `^` and `$` match just after or just before,\r\n * respectively, a line terminator or the end of the input sequence. */\r\n MULTILINE(\"m\")\r\n}\r\n\r\n\r\n\r\n/**\r\n * Represents the results from a single capturing group within a [MatchResult] of [Regex].\r\n *\r\n * @param value The value of captured group.\r\n */\r\npublic actual data class MatchGroup(actual val value: String)\r\n\r\n\r\n\r\n/**\r\n * Represents a compiled regular expression.\r\n * Provides functions to match strings in text with a pattern, replace the found occurrences and split text around matches.\r\n *\r\n * For pattern syntax reference see [MDN RegExp](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/RegExp#Special_characters_meaning_in_regular_expressions)\r\n * and [http://www.w3schools.com/jsref/jsref_obj_regexp.asp](https://www.w3schools.com/jsref/jsref_obj_regexp.asp).\r\n *\r\n * @constructor Creates a regular expression from the specified [pattern] string and the specified set of [options].\r\n */\r\npublic actual class Regex actual constructor(pattern: String, options: Set<RegexOption>) {\r\n\r\n /** Creates a regular expression from the specified [pattern] string and the specified single [option]. */\r\n public actual constructor(pattern: String, option: RegexOption) : this(pattern, setOf(option))\r\n\r\n /** Creates a regular expression from the specified [pattern] string and the default options. */\r\n public actual constructor(pattern: String) : this(pattern, emptySet())\r\n\r\n\r\n /** The pattern string of this regular expression. */\r\n public actual val pattern: String = pattern\r\n /** The set of options that were used to create this regular expression. */\r\n public actual val options: Set<RegexOption> = options.toSet()\r\n private val nativePattern: RegExp = RegExp(pattern, options.map { it.value }.joinToString(separator = \"|\") + \"g\")\r\n\r\n /** Indicates whether the regular expression matches the entire [input]. */\r\n public actual infix fun matches(input: CharSequence): Boolean {\r\n nativePattern.reset()\r\n val match = nativePattern.exec(input.toString())\r\n return match != null && match.index == 0 && nativePattern.lastIndex == input.length\r\n }\r\n\r\n /** Indicates whether the regular expression can find at least one match in the specified [input]. */\r\n public actual fun containsMatchIn(input: CharSequence): Boolean {\r\n nativePattern.reset()\r\n return nativePattern.test(input.toString())\r\n }\r\n\r\n /** Returns the first match of a regular expression in the [input], beginning at the specified [startIndex].\r\n *\r\n * @param startIndex An index to start search with, by default 0. Must be not less than zero and not greater than `input.length()`\r\n * @return An instance of [MatchResult] if match was found or `null` otherwise.\r\n */\r\n @Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\n public actual fun find(input: CharSequence, startIndex: Int = 0): MatchResult? = nativePattern.findNext(input.toString(), startIndex)\r\n\r\n /**\r\n * Returns a sequence of all occurrences of a regular expression within the [input] string, beginning at the specified [startIndex].\r\n *\r\n * @sample samples.text.Regexps.findAll\r\n */\r\n @Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\n public actual fun findAll(input: CharSequence, startIndex: Int = 0): Sequence<MatchResult> =\r\n generateSequence({ find(input, startIndex) },

{ match -> match.next() })\r\n\r\n   /**\r\n   * Attempts to match the entire [input] CharSequence against the pattern.\r\n   *\r\n   * @return An instance of [MatchResult] if the entire input matches or `null` otherwise.\r\n   */\r\n   public actual fun matchEntire(input: CharSequence): MatchResult? {\r\n   if (pattern.startsWith('^') && pattern.endsWith('$'))\r\n   return find(input)\r\n   else\r\n   return Regex(\"^${pattern.trimStart('^').trimEnd('$')}$\", options).find(input)\r\n   }\r\n\r\n   /**\r\n   * Replaces all occurrences of this regular expression in the specified [input] string with specified [replacement] expression.\r\n   *\r\n   * @param replacement A replacement expression that can include substitutions. See [String.prototype.replace](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String/replace) function docs for details.\r\n   */\r\n   public actual fun replace(input: CharSequence, replacement: String): String = input.toString().nativeReplace(nativePattern, replacement)\r\n\r\n   /**\r\n   * Replaces all occurrences of this regular expression in the specified [input] string with the result of\r\n   * the given function [transform] that takes [MatchResult] and returns a string to be used as a\r\n   * replacement for that match.\r\n   */\r\n   public actual inline fun replace(input: CharSequence, transform: (MatchResult) -> CharSequence): String {\r\n   var match = find(input)\r\n   if (match == null) return input.toString()\r\n\r\n   var lastStart = 0\r\n   val length = input.length\r\n   val sb = StringBuilder(length)\r\n   do {\r\n   val foundMatch = match!!\r\n   sb.append(input, lastStart, foundMatch.range.start)\r\n   sb.append(transform(foundMatch))\r\n   lastStart = foundMatch.range.endInclusive + 1\r\n   match = foundMatch.next()\r\n   } while (lastStart < length && match != null)\r\n\r\n   if (lastStart < length) {\r\n   sb.append(input, lastStart, length)\r\n   }\r\n\r\n   return sb.toString()\r\n   }\r\n\r\n   /**\r\n   * Replaces the first occurrence of this regular expression in the specified [input] string with specified [replacement] expression.\r\n   *\r\n   * @param replacement A replacement expression that can include substitutions. See [String.prototype.replace](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String/replace) function docs for details.\r\n   */\r\n   public actual fun replaceFirst(input: CharSequence, replacement: String): String {\r\n   val nonGlobalOptions = options.map { it.value }.joinToString(separator = \"\")\r\n   return input.toString().nativeReplace(RegExp(pattern, nonGlobalOptions), replacement)\r\n   }\r\n\r\n   /**\r\n   * Splits the [input] CharSequence around matches of this regular expression.\r\n   *\r\n   * @param limit Non-negative value specifying the maximum number of substrings the string can be split to.\r\n   * Zero by default means no limit is set.\r\n   */\r\n   @Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\n   public actual fun split(input: CharSequence, limit: Int = 0): List<String> {\r\n   require(limit >= 0) { \"Limit must be non-negative, but was $limit\" }\r\n   val matches = findAll(input).let { if (limit == 0) it else it.take(limit - 1) }\r\n   val result = mutableListOf<String>()\r\n   var lastStart = 0\r\n\r\n   for (match in matches) {\r\n   result.add(input.subSequence(lastStart, match.range.start).toString())\r\n   lastStart = match.range.endInclusive + 1\r\n   }\r\n   result.add(input.subSequence(lastStart, input.length).toString())\r\n   return result\r\n   }\r\n\r\n\r\n   /**\r\n   * Returns the string representation of this regular expression, namely the [pattern] of this regular expression.\r\n   *\r\n   * Note that another regular expression constructed from the same pattern string may have different [options]\r\n   * and may match strings differently.\r\n   */\r\n   public override fun toString(): String = nativePattern.toString()\r\n\r\n\r\n   actual companion object {\r\n   /**\r\n   * Returns a regular expression that matches the specified [literal] string literally.\r\n   * No characters of that string will have special meaning when searching for an occurrence of the regular expression.\r\n   */\r\n   public actual fun fromLiteral(literal: String): Regex = Regex(escape(literal))\r\n\r\n\r\n   /**\r\n   * Returns a regular expression pattern string that matches the specified [literal] string literally.\r\n   * No characters of that string will have special meaning when searching for an occurrence of the regular expression.\r\n   */\r\n   public actual fun escape(literal: String): String = literal.nativeReplace(patternEscape, \"\\\\$&\")\r\n\r\n\r\n   /**\r\n   * Returns a literal replacement expression for the specified [literal] string.\r\n   * No characters of that string will have special meaning when it is used as a replacement string in [Regex.replace] function.\r\n   */\r\n   public actual fun escapeReplacement(literal: String): String = literal.nativeReplace(replacementEscape, \"$$$$\")\r\n\r\n\r\n   private val patternEscape = RegExp(\"\"\"[-\\\\^$*+?.()|[\\]{}]\"\"\", \"g\")\r\n   private val replacementEscape =

RegExp(\"\"\"\\$\"\"\", \"g\")\r\n   }\r\n}\r\n\r\n/** Creates a regular expression from the specified [pattern] string and the specified single [option]. */\r\n@Deprecated(\"Provided for binary compatibility\", level = DeprecationLevel.HIDDEN)\r\n@JsName(\"Regex_sb3q2\\$\")\r\npublic fun Regex_0(pattern: String, option: RegexOption): Regex = Regex(pattern, setOf(option))\r\n\r\n/** Creates a regular expression from the specified [pattern] string and the default options. */\r\n@Deprecated(\"Provided for binary compatibility\", level = DeprecationLevel.HIDDEN)\r\n@JsName(\"Regex_61zpoe\\$\")\r\npublic fun Regex_1(pattern: String): Regex = Regex(pattern, emptySet())\r\n\r\n\r\n\r\n\r\n\r\nprivate fun RegExp.findNext(input: String, from: Int): MatchResult? {\r\n   this.lastIndex = from\r\n   val match = exec(input)\r\n   if (match == null) return null\r\n   val range = match.index..lastIndex - 1\r\n\r\n   return object : MatchResult {\r\n   override val range: IntRange = range\r\n   override val value: String\r\n   get() = match[0]!!\r\n\r\n   override val groups: MatchGroupCollection = object : MatchGroupCollection, AbstractCollection<MatchGroup?>() {\r\n   override val size: Int get() = match.length\r\n   override fun iterator(): Iterator<MatchGroup?> = indices.asSequence().map { this[it] }.iterator()\r\n   override fun get(index: Int): MatchGroup? = match[index]?.let { MatchGroup(it) }\r\n   }\r\n\r\n\r\n\r\n   private var groupValues_: List<String>? = null\r\n\r\n   override val groupValues: List<String>\r\n   get() {\r\n   if (groupValues_ == null) {\r\n   groupValues_ = object : AbstractList<String>() {\r\n   override val size: Int get() = match.length\r\n   override fun get(index: Int): String = match[index] ?: \"\"\r\n   }\r\n   }\r\n   return groupValues_!!\r\n   }\r\n\r\n   override fun next(): MatchResult? = this@findNext.findNext(input, if (range.isEmpty()) range.start + 1 else range.endInclusive + 1)\r\n   }\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.text\r\n\r\nimport kotlin.js.RegExp\r\n\r\n@kotlin.internal.InlineOnly\r\ninternal actual inline fun String.nativeIndexOf(ch: Char, fromIndex: Int): Int = nativeIndexOf(ch.toString(), fromIndex)\r\n\r\n@kotlin.internal.InlineOnly\r\ninternal actual inline fun String.nativeLastIndexOf(ch: Char, fromIndex: Int): Int = nativeLastIndexOf(ch.toString(), fromIndex)\r\n\r\n/**\r\n * Returns `true` if this string starts with the specified prefix.\r\n */\r\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\npublic actual fun String.startsWith(prefix: String, ignoreCase: Boolean = false): Boolean {\r\n   if (!ignoreCase)\r\n   return nativeStartsWith(prefix, 0)\r\n   else\r\n   return regionMatches(0, prefix, 0, prefix.length, ignoreCase)\r\n}\r\n\r\n/**\r\n * Returns `true` if a substring of this string starting at the specified offset [startIndex] starts with the specified prefix.\r\n */\r\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\npublic actual fun String.startsWith(prefix: String, startIndex: Int, ignoreCase: Boolean = false): Boolean {\r\n   if (!ignoreCase)\r\n   return nativeStartsWith(prefix, startIndex)\r\n   else\r\n   return regionMatches(startIndex, prefix, 0, prefix.length, ignoreCase)\r\n}\r\n\r\n\r\n/**\r\n * Returns `true` if this string ends with the specified suffix.\r\n */\r\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\npublic actual fun String.endsWith(suffix: String, ignoreCase: Boolean = false): Boolean {\r\n   if (!ignoreCase)\r\n   return nativeEndsWith(suffix)\r\n   else\r\n   return regionMatches(length - suffix.length, suffix, 0, suffix.length, ignoreCase)\r\n}\r\n\r\n\r\n\r\npublic fun String.matches(regex: String): Boolean {\r\n   val result = this.match(regex)\r\n   return result != null && result.size != 0\r\n}\r\n\r\n\r\npublic actual fun CharSequence.isBlank(): Boolean = length == 0 || (if (this is String) this else this.toString()).matches(\"^[\\\\s\\\\xA0]+$\")\r\n\r\n\r\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\npublic actual fun String?.equals(other: String?, ignoreCase: Boolean = false): Boolean =\r\n   if (this == null)\r\n   other == null\r\n   else if (!ignoreCase)\r\n   this == other\r\n   else\r\n   other != null && this.toLowerCase() == other.toLowerCase()\r\n\r\n\r\n\r\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\npublic actual fun CharSequence.regionMatches(thisOffset: Int, other: CharSequence, otherOffset: Int, length: Int, ignoreCase: Boolean = false): Boolean =\r\n   regionMatchesImpl(thisOffset, other, otherOffset, length, ignoreCase)\r\n\r\n\r\n\r\n/**\r\n * Returns a copy of this string having its first letter uppercased, or the original

string,\r\n * if it's empty or already starts with an upper case letter.\r\n *\r\n * @sample samples.text.Strings.capitalize\r\n */\r\npublic actual fun String.capitalize(): String {\r\n return if (isNotEmpty()) substring(0, 1).toUpperCase() + substring(1) else this\r\n}\r\n\r\n/**\r\n * Returns a copy of this string having its first letter lowercased, or the original string,\r\n * if it's empty or already starts with a lower case letter.\r\n *\r\n * @sample samples.text.Strings.decapitalize\r\n */\r\npublic actual fun String.decapitalize(): String {\r\n return if (isNotEmpty()) substring(0, 1).toLowerCase() + substring(1) else this\r\n}\r\n\r\n/**\r\n * Returns a string containing this char sequence repeated [n] times.\r\n * @throws [IllegalArgumentException] when n < 0.\r\n */\r\npublic actual fun CharSequence.repeat(n: Int): String {\r\n require(n >= 0) { \"Count 'n' must be non-negative, but was $n.\" }\r\n return when (n) {\r\n 0 -> \"\"\r\n 1 -> this.toString()\r\n else -> {\r\n var result = \"\"\r\n if (!isEmpty()) {\r\n var s = this.toString()\r\n var count = n\r\n while (true) {\r\n if ((count and 1) == 1) {\r\n result += s\r\n }\r\n count = count ushr 1\r\n if (count == 0) {\r\n break\r\n }\r\n s += s\r\n }\r\n }\r\n return result\r\n }\r\n }\r\n}\r\n\r\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\npublic actual fun String.replace(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =\r\n nativeReplace(RegExp(Regex.escape(oldValue), if (ignoreCase) \"gi\" else \"g\"), Regex.escapeReplacement(newValue))\r\n\r\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\npublic actual fun String.replace(oldChar: Char, newChar: Char, ignoreCase: Boolean = false): String =\r\n nativeReplace(RegExp(Regex.escape(oldChar.toString()), if (ignoreCase) \"gi\" else \"g\"), newChar.toString())\r\n\r\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\npublic actual fun String.replaceFirst(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =\r\n nativeReplace(RegExp(Regex.escape(oldValue), if (ignoreCase) \"i\" else \"\"), Regex.escapeReplacement(newValue))\r\n\r\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\r\npublic actual fun String.replaceFirst(oldChar: Char, newChar: Char, ignoreCase: Boolean = false): String =\r\n nativeReplace(RegExp(Regex.escape(oldChar.toString()), if (ignoreCase) \"i\" else \"\"), newChar.toString())\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.text\r\n\r\n\r\npublic actual interface Appendable {\r\n public actual fun append(csq: CharSequence?): Appendable\r\n public actual fun append(csq: CharSequence?, start: Int, end: Int): Appendable\r\n public actual fun append(c: Char): Appendable\r\n}\r\n\r\npublic actual class StringBuilder(content: String = \"\") : Appendable, CharSequence {\r\n actual constructor(capacity: Int) : this() {}\r\n\r\n actual constructor(content: CharSequence) : this(content.toString()) {}\r\n\r\n actual constructor() : this(\"\")\r\n\r\n private var string: String = content\r\n\r\n actual override val length: Int\r\n get() = string.asDynamic().length\r\n\r\n actual override fun get(index: Int): Char =\r\n string.getOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, length: $length}\") }\r\n\r\n actual override fun subSequence(startIndex: Int, endIndex: Int): CharSequence = string.substring(startIndex, endIndex)\r\n\r\n actual override fun append(c: Char): StringBuilder {\r\n string += c\r\n return this\r\n }\r\n\r\n actual override fun append(csq: CharSequence?): StringBuilder {\r\n string += csq.toString()\r\n return this\r\n }\r\n\r\n actual override fun append(csq: CharSequence?, start: Int, end: Int): StringBuilder {\r\n string += csq.toString().substring(start, end)\r\n return this\r\n }\r\n\r\n actual fun append(obj: Any?): StringBuilder {\r\n string += obj.toString()\r\n return this\r\n }\r\n\r\n actual fun reverse(): StringBuilder {\r\n string = string.asDynamic().split(\"\").reverse().join(\"\")\r\n return this\r\n }\r\n\r\n /**\r\n * Clears the content of this string builder making it empty.\r\n *\r\n * @sample samples.text.Strings.clearStringBuilder\r\n */\r\n @SinceKotlin(\"1.3\")\r\n public fun clear(): StringBuilder {\r\n string = \"\"\r\n return this\r\n }\r\n\r\n override fun toString(): String = string\r\n}\r\n\r\n\r\n\r\n\r\n/**\r\n * Clears the content of this string builder making it empty.\r\n *\r\n * @sample samples.text.Strings.clearStringBuilder\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\", \"NOTHING_TO_INLINE\")\r\npublic actual inline fun StringBuilder.clear(): StringBuilder =

this.clear()\r\n\r\n\r\n/**\r\n * The exception thrown when a character encoding or decoding error occurs.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic actual open class CharacterCodingException(message: String?) : Exception(message) {\r\n   actual constructor() : this(null)\r\n}\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.text\r\n\r\n/** Returns the negative [size] if [throwOnMalformed] is false, throws [CharacterCodingException] otherwise. */\r\n@UseExperimental(ExperimentalStdlibApi::class)\r\nprivate fun malformed(size: Int, index: Int, throwOnMalformed: Boolean): Int {\r\n   if (throwOnMalformed) throw CharacterCodingException(\"Malformed sequence starting at ${index - 1}\")\r\n   return -size\r\n}\r\n\r\n/**\r\n * Returns code point corresponding to UTF-16 surrogate pair,\r\n * where the first of the pair is the [high] and the second is in the [string] at the [index].\r\n * Returns zero if the pair is malformed and [throwOnMalformed] is false.\r\n *\r\n * @throws CharacterCodingException if the pair is malformed and [throwOnMalformed] is true.\r\n */\r\nprivate fun codePointFromSurrogate(string: String, high: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {\r\n   if (high !in 0xD800..0xDBFF || index >= endIndex) {\r\n   return malformed(0, index, throwOnMalformed)\r\n   }\r\n   val low = string[index].toInt()\r\n   if (low !in 0xDC00..0xDFFF) {\r\n   return malformed(0, index, throwOnMalformed)\r\n   }\r\n   return 0x10000 + ((high and 0x3FF) shl 10) or (low and 0x3FF)\r\n}\r\n\r\n/**\r\n * Returns code point corresponding to UTF-8 sequence of two bytes,\r\n * where the first byte of the sequence is the [byte1] and the second byte is in the [bytes] array at the [index].\r\n * Returns zero if the sequence is malformed and [throwOnMalformed] is false.\r\n *\r\n * @throws CharacterCodingException if the sequence of two bytes is malformed and [throwOnMalformed] is true.\r\n */\r\nprivate fun codePointFrom2(bytes: ByteArray, byte1: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {\r\n   if (byte1 and 0x1E == 0 || index >= endIndex) {\r\n   return malformed(0, index, throwOnMalformed)\r\n   }\r\n   val byte2 = bytes[index].toInt()\r\n   if (byte2 and 0xC0 != 0x80) {\r\n   return malformed(0, index, throwOnMalformed)\r\n   }\r\n   return (byte1 shl 6) xor byte2 xor 0xF80\r\n}\r\n\r\n/**\r\n * Returns code point corresponding to UTF-8 sequence of three bytes,\r\n * where the first byte of the sequence is the [byte1] and the others are in the [bytes] array starting from the [index].\r\n * Returns a non-positive value indicating number of bytes from [bytes] included in malformed sequence\r\n * if the sequence is malformed and [throwOnMalformed] is false.\r\n *\r\n * @throws CharacterCodingException if the sequence of three bytes is malformed and [throwOnMalformed] is true.\r\n */\r\nprivate fun codePointFrom3(bytes: ByteArray, byte1: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {\r\n   if (index >= endIndex) {\r\n   return malformed(0, index, throwOnMalformed)\r\n   }\r\n\r\n   val byte2 = bytes[index].toInt()\r\n   if (byte1 and 0xF == 0) {\r\n   if (byte2 and 0xE0 != 0xA0) {\r\n   // Non-shortest form\r\n   return malformed(0, index, throwOnMalformed)\r\n   }\r\n   } else if (byte1 and 0xF == 0xD) {\r\n   if (byte2 and 0xE0 != 0x80) {\r\n   // Surrogate code point\r\n   return malformed(0, index, throwOnMalformed)\r\n   }\r\n   } else if (byte2 and 0xC0 != 0x80) {\r\n   return malformed(0, index, throwOnMalformed)\r\n   }\r\n\r\n   if (index + 1 == endIndex) {\r\n   return malformed(1, index, throwOnMalformed)\r\n   }\r\n   val byte3 = bytes[index + 1].toInt()\r\n   if (byte3 and 0xC0 != 0x80) {\r\n   return malformed(1, index, throwOnMalformed)\r\n   }\r\n\r\n   return (byte1 shl 12) xor (byte2 shl 6) xor byte3 xor -0x1E080\r\n}\r\n\r\n/**\r\n * Returns code point corresponding to UTF-8 sequence of four bytes,\r\n * where the first byte of the sequence is the [byte1] and the others are in the [bytes] array starting from the [index].\r\n * Returns a non-positive value indicating number of bytes from [bytes] included in malformed sequence\r\n * if the sequence is malformed and [throwOnMalformed] is false.\r\n *\r\n * @throws CharacterCodingException if the sequence of four bytes is malformed and [throwOnMalformed] is true.\r\n */\r\nprivate fun codePointFrom4(bytes: ByteArray, byte1: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {\r\n   if (index >= endIndex) {\r\n   malformed(0, index, throwOnMalformed)\r\n   }\r\n\r\n   val byte2 = bytes[index].toInt()\r\n   if (byte1 and 0xF == 0x0) {\r\n   if (byte2 and 0xF0 <= 0x80) {\r\n   // Non-shortest form\r\n   return malformed(0, index, throwOnMalformed)\r\n   }\r\n   } else if (byte1 and 0xF == 0x4) {\r\n   if (byte2 and 0xF0 != 0x80) {\r\n   // Out of Unicode code points domain (larger than U+10FFFF)\r\n   return

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malformed(0, index, throwOnMalformed)\r\n        }\r\n    } else if (byte1 and 0xF > 0x4) {\r\n        return malformed(0, index, throwOnMalformed)\r\n    } else if (byte2 and 0xC0 != 0x80) {\r\n        return malformed(0, index, throwOnMalformed)\r\n    }\r\n\r\n    if (index + 1 == endIndex) {\r\n        return malformed(1, index, throwOnMalformed)\r\n    }\r\n    val byte3 = bytes[index + 1].toInt()\r\n    if (byte3 and 0xC0 != 0x80) {\r\n        return malformed(1, index, throwOnMalformed)\r\n    }\r\n\r\n    if (index + 2 == endIndex) {\r\n        return malformed(2, index, throwOnMalformed)\r\n    }\r\n    val byte4 = bytes[index + 2].toInt()\r\n    if (byte4 and 0xC0 != 0x80) {\r\n        return malformed(2, index, throwOnMalformed)\r\n    }\r\n    return (byte1 shl 18) xor (byte2 shl 12) xor (byte3 shl 6) xor byte4 xor 0x381F80\r\n}\r\n\r\n/**\r\n * Maximum number of bytes needed to encode a single char.\r\n *\r\n * Code points in `0..0x7F` are encoded in a single byte.\r\n * Code points in `0x80..0x7FF` are encoded in two bytes.\r\n * Code points in `0x800..0xD7FF` or in `0xE000..0xFFFF` are encoded in three bytes.\r\n * Surrogate code points in `0xD800..0xDFFF` are not Unicode scalar values, therefore aren't encoded.\r\n * Code points in `0x10000..0x10FFFF` are represented by a pair of surrogate `Char`s and are encoded in four bytes.\r\n */\r\nprivate const val MAX_BYTES_PER_CHAR = 3\r\n\r\n/**\r\n * The byte sequence a malformed UTF-16 char sequence is replaced by.\r\n */\r\nprivate val REPLACEMENT_BYTE_SEQUENCE: ByteArray = byteArrayOf(0xEF.toByte(), 0xBF.toByte(), 0xBD.toByte())\r\n\r\n/**\r\n * Encodes the [string] using UTF-8 and returns the resulting [ByteArray].\r\n *\r\n * @param string the string to encode.\r\n * @param startIndex the start offset (inclusive) of the substring to encode.\r\n * @param endIndex the end offset (exclusive) of the substring to encode.\r\n * @param throwOnMalformed whether to throw on malformed char sequence or replace by the [REPLACEMENT_BYTE_SEQUENCE].\r\n *\r\n * @throws CharacterCodingException if the char sequence is malformed and [throwOnMalformed] is true.\r\n */\r\ninternal fun encodeUtf8(string: String, startIndex: Int, endIndex: Int, throwOnMalformed: Boolean): ByteArray {\r\n    require(startIndex >= 0 && endIndex <= string.length && startIndex <= endIndex)\r\n\r\n    val bytes = ByteArray((endIndex - startIndex) * MAX_BYTES_PER_CHAR)\r\n    var byteIndex = 0\r\n    var charIndex = startIndex\r\n\r\n    while (charIndex < endIndex) {\r\n        val code = string[charIndex++].toInt()\r\n        when {\r\n            code < 0x80 ->\r\n                bytes[byteIndex++] = code.toByte()\r\n            code < 0x800 -> {\r\n                bytes[byteIndex++] = ((code shr 6) or 0xC0).toByte()\r\n                bytes[byteIndex++] = ((code and 0x3F) or 0x80).toByte()\r\n            }\r\n            code < 0xD800 || code >= 0xE000 -> {\r\n                bytes[byteIndex++] = ((code shr 12) or 0xE0).toByte()\r\n                bytes[byteIndex++] = (((code shr 6) and 0x3F) or 0x80).toByte()\r\n                bytes[byteIndex++] = ((code and 0x3F) or 0x80).toByte()\r\n            }\r\n            else -> { // Surrogate char value\r\n                val codePoint = codePointFromSurrogate(string, code, charIndex, endIndex, throwOnMalformed)\r\n                if (codePoint <= 0) {\r\n                    bytes[byteIndex++] = REPLACEMENT_BYTE_SEQUENCE[0]\r\n                    bytes[byteIndex++] = REPLACEMENT_BYTE_SEQUENCE[1]\r\n                    bytes[byteIndex++] = REPLACEMENT_BYTE_SEQUENCE[2]\r\n                } else {\r\n                    bytes[byteIndex++] = ((codePoint shr 18) or 0xF0).toByte()\r\n                    bytes[byteIndex++] = (((codePoint shr 12) and 0x3F) or 0x80).toByte()\r\n                    bytes[byteIndex++] = (((codePoint shr 6) and 0x3F) or 0x80).toByte()\r\n                    bytes[byteIndex++] = ((codePoint and 0x3F) or 0x80).toByte()\r\n                    charIndex++\r\n                }\r\n            }\r\n        }\r\n    }\r\n\r\n    return if (bytes.size == byteIndex) bytes else bytes.copyOf(byteIndex)\r\n}\r\n\r\n/**\r\n * The character a malformed UTF-8 byte sequence is replaced by.\r\n */\r\nprivate const val REPLACEMENT_CHAR = '\\uFFFD'\r\n\r\n/**\r\n * Decodes the UTF-8 [bytes] array and returns the resulting [String].\r\n *\r\n * @param bytes the byte array to decode.\r\n * @param startIndex the start offset (inclusive) of the array to be decoded.\r\n * @param endIndex the end offset (exclusive) of the array to be encoded.\r\n * @param throwOnMalformed whether to throw on malformed byte sequence or replace by the [REPLACEMENT_CHAR].\r\n *\r\n * @throws CharacterCodingException if the array is malformed UTF-8 byte sequence and [throwOnMalformed] is true.\r\n */\r\ninternal fun decodeUtf8(bytes: ByteArray, startIndex: Int, endIndex: Int, throwOnMalformed: Boolean): String {\r\n    require(startIndex >= 0 && endIndex <= bytes.size && startIndex <= endIndex)\r\n\r\n    var byteIndex = startIndex\r\n    val stringBuilder = StringBuilder()\r\n\r\n    while (byteIndex < endIndex) {\r\n        val byte = bytes[byteIndex++].toInt()\r\n        when {\r\n            byte >= 0 ->\r\n                stringBuilder.append(byte.toChar())\r\n            byte shr 5 == -2 -> {\r\n                val code = codePointFrom2(bytes,
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byte, byteIndex, endIndex, throwOnMalformed)\r\n if (code <= 0) {\r\n stringBuilder.append(REPLACEMENT_CHAR)\r\n byteIndex += -code\r\n } else {\r\n stringBuilder.append(code.toChar())\r\n byteIndex += 1\r\n }\r\n }\r\n byte shr 4 == -2 -> {\r\n val code = codePointFrom3(bytes, byte, byteIndex, endIndex, throwOnMalformed)\r\n if (code <= 0) {\r\n stringBuilder.append(REPLACEMENT_CHAR)\r\n byteIndex += -code\r\n } else {\r\n stringBuilder.append(code.toChar())\r\n byteIndex += 2\r\n }\r\n }\r\n byte shr 3 == -2 -> {\r\n val code = codePointFrom4(bytes, byte, byteIndex, endIndex, throwOnMalformed)\r\n if (code <= 0) {\r\n stringBuilder.append(REPLACEMENT_CHAR)\r\n byteIndex += -code\r\n } else {\r\n val high = (code - 0x10000) shr 10 or 0xD800\r\n val low = (code and 0x3FF) or 0xDC00\r\n stringBuilder.append(high.toChar())\r\n stringBuilder.append(low.toChar())\r\n byteIndex += 3\r\n }\r\n }\r\n else -> {\r\n malformed(0, byteIndex, throwOnMalformed)\r\n stringBuilder.append(REPLACEMENT_CHAR)\r\n }\r\n }\r\n }\r\n\r\n return stringBuilder.toString()\r\n}","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.time\r\n\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic actual enum class DurationUnit(internal val scale: Double) {\r\n /**\r\n * Time unit representing one nanosecond, which is 1/1000 of a microsecond.\r\n */\r\n NANOSECONDS(1e0),\r\n /**\r\n * Time unit representing one microsecond, which is 1/1000 of a millisecond.\r\n */\r\n MICROSECONDS(1e3),\r\n /**\r\n * Time unit representing one millisecond, which is 1/1000 of a second.\r\n */\r\n MILLISECONDS(1e6),\r\n /**\r\n * Time unit representing one second.\r\n */\r\n SECONDS(1e9),\r\n /**\r\n * Time unit representing one minute.\r\n */\r\n MINUTES(60e9),\r\n /**\r\n * Time unit representing one hour.\r\n */\r\n HOURS(3600e9),\r\n /**\r\n * Time unit representing one day, which is always equal to 24 hours.\r\n */\r\n DAYS(86400e9);\r\n}\r\n\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\ninternal actual fun convertDurationUnit(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double {\r\n val sourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)\r\n return when {\r\n sourceCompareTarget > 0 -> value * (sourceUnit.scale / targetUnit.scale)\r\n sourceCompareTarget < 0 -> value / (targetUnit.scale / sourceUnit.scale)\r\n else -> value\r\n }\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.time\r\n\r\nimport kotlin.js.json\r\nimport kotlin.math.*\r\n\r\ninternal actual fun formatToExactDecimals(value: Double, decimals: Int): String {\r\n val rounded = if (decimals == 0) {\r\n value\r\n } else {\r\n val pow = 10.0.pow(decimals)\r\n @Suppress(\"DEPRECATION\", \"DEPRECATION_ERROR\")\r\n kotlin.js.Math.round(abs(value) * pow) / pow * sign(value)\r\n }\r\n return rounded.asDynamic().toFixed(decimals).unsafeCast<String>()\r\n}\r\n\r\n\r\ninternal actual fun formatUpToDecimals(value: Double, decimals: Int): String {\r\n return value.asDynamic().toLocaleString(\"en-us\", json(\"maximumFractionDigits\" to decimals)).unsafeCast<String>()\r\n}\r\n\r\n\r\ninternal actual fun formatScientific(value: Double): String {\r\n return value.asDynamic().toExponential(2).unsafeCast<String>()\r\n}","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\npackage kotlin.time\r\n\r\n\r\nimport org.w3c.performance.GlobalPerformance\r\nimport org.w3c.performance.Performance\r\n\r\n\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic actual object MonoClock : Clock {\r\n\r\n\r\n private val actualClock: Clock = run {\r\n val isNode: Boolean = js(\"typeof process !== 'undefined' && process.versions && !!process.versions.node\")\r\n\r\n\r\n if (isNode)\r\n HrTimeClock(js(\"process\").unsafeCast<Process>())\r\n else\r\n js(\"self\").unsafeCast<GlobalPerformance?>()?.performance?.let(::PerformanceClock)\r\n ?:

DateNowClock\r\n\r\n   }\r\n\r\n   override fun markNow(): ClockMark =
actualClock.markNow()\r\n}\r\n\r\ninternal external interface Process {\r\n   fun hrtime(time: Array<Double> =
definedExternally): Array<Double>\r\n}\r\n\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\ninternal class
HrTimeClock(val process: Process) : Clock {\r\n\r\n   override fun markNow(): ClockMark = object : ClockMark()
{\r\n   val startedAt = process.hrtime()\r\n   override fun elapsedNow(): Duration =\r\n
process.hrtime(startedAt).let { (seconds, nanos) -> seconds.seconds + nanos.nanoseconds }\r\n   }\r\n\r\n   override
fun toString(): String =
\"Clock(process.hrtime())\"\r\n}\r\n\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\ninternal class
PerformanceClock(val performance: Performance) : AbstractDoubleClock(unit = DurationUnit.MILLISECONDS)
{\r\n   override fun read(): Double = performance.now()\r\n   override fun toString(): String =
\"Clock(self.performance.now())\"\r\n}\r\n\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\ninternal object
DateNowClock : AbstractDoubleClock(unit = DurationUnit.MILLISECONDS) {\r\n   override fun read(): Double
= kotlin.js.Date.now()\r\n   override fun toString(): String = \"Clock(Date.now())\"\r\n}","/*\r\n * Copyright 2010-
2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by
the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// NOTE: THIS FILE IS
AUTO-GENERATED, DO NOT EDIT!\r\n// See libraries/tools/idl2k for
details\r\n\r\n@file:Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\r\npackage
org.khronos.webgl\r\n\r\nimport kotlin.js.*\r\nimport org.w3c.css.masking.*\r\nimport org.w3c.dom.*\r\nimport
org.w3c.dom.clipboard.*\r\nimport org.w3c.dom.css.*\r\nimport org.w3c.dom.events.*\r\nimport
org.w3c.dom.mediacapture.*\r\nimport org.w3c.dom.parsing.*\r\nimport org.w3c.dom.pointerevents.*\r\nimport
org.w3c.dom.svg.*\r\nimport org.w3c.dom.url.*\r\nimport org.w3c.fetch.*\r\nimport org.w3c.files.*\r\nimport
org.w3c.notifications.*\r\nimport org.w3c.performance.*\r\nimport org.w3c.workers.*\r\nimport
org.w3c.xhr.*\r\n\r\npublic external interface WebGLContextAttributes {\r\n   var alpha: Boolean? /* = true */\r\n
    get() = definedExternally\r\n   set(value) = definedExternally\r\n   var depth: Boolean? /* = true */\r\n
get() = definedExternally\r\n   set(value) = definedExternally\r\n   var stencil: Boolean? /* = false */\r\n   get()
= definedExternally\r\n   set(value) = definedExternally\r\n   var antialias: Boolean? /* = true */\r\n   get() =
definedExternally\r\n   set(value) = definedExternally\r\n   var premultipliedAlpha: Boolean? /* = true */\r\n
get() = definedExternally\r\n   set(value) = definedExternally\r\n   var preserveDrawingBuffer: Boolean? /* =
false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var
preferLowPowerToHighPerformance: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) =
definedExternally\r\n   var failIfMajorPerformanceCaveat: Boolean? /* = false */\r\n   get() =
definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun
WebGLContextAttributes(alpha: Boolean? = true, depth: Boolean? = true, stencil: Boolean? = false, antialias:
Boolean? = true, premultipliedAlpha: Boolean? = true, preserveDrawingBuffer: Boolean? = false,
preferLowPowerToHighPerformance: Boolean? = false, failIfMajorPerformanceCaveat: Boolean? = false):
WebGLContextAttributes {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"alpha\"] = alpha\r\n   o[\"depth\"] = depth\r\n
o[\"stencil\"] = stencil\r\n   o[\"antialias\"] = antialias\r\n   o[\"premultipliedAlpha\"] = premultipliedAlpha\r\n
o[\"preserveDrawingBuffer\"] = preserveDrawingBuffer\r\n   o[\"preferLowPowerToHighPerformance\"] =
preferLowPowerToHighPerformance\r\n   o[\"failIfMajorPerformanceCaveat\"] =
failIfMajorPerformanceCaveat\r\n\r\n   return o\r\n}\r\n\r\npublic external abstract class WebGLObject
{\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript
[WebGLBuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLBuffer) to Kotlin\r\n */\r\npublic external
abstract class WebGLBuffer : WebGLObject {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript
[WebGLFramebuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLFramebuffer) to Kotlin\r\n
*/\r\npublic external abstract class WebGLFramebuffer : WebGLObject {\r\n}\r\n\r\n/**\r\n * Exposes the
JavaScript [WebGLProgram](https://developer.mozilla.org/en/docs/Web/API/WebGLProgram) to Kotlin\r\n
*/\r\npublic external abstract class WebGLProgram : WebGLObject {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript
[WebGLRenderbuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderbuffer) to Kotlin\r\n

*/\r\npublic external abstract class WebGLRenderbuffer : WebGLObject {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [WebGLShader](https://developer.mozilla.org/en/docs/Web/API/WebGLShader) to Kotlin\r\n */\r\npublic external abstract class WebGLShader : WebGLObject {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [WebGLTexture](https://developer.mozilla.org/en/docs/Web/API/WebGLTexture) to Kotlin\r\n */\r\npublic external abstract class WebGLTexture : WebGLObject {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [WebGLUniformLocation](https://developer.mozilla.org/en/docs/Web/API/WebGLUniformLocation) to Kotlin\r\n */\r\npublic external abstract class WebGLUniformLocation {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [WebGLActiveInfo](https://developer.mozilla.org/en/docs/Web/API/WebGLActiveInfo) to Kotlin\r\n */\r\npublic external abstract class WebGLActiveInfo {\r\n   open val size: Int\r\n   open val type: Int\r\n   open val name: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [WebGLShaderPrecisionFormat](https://developer.mozilla.org/en/docs/Web/API/WebGLShaderPrecisionFormat) to Kotlin\r\n */\r\npublic external abstract class WebGLShaderPrecisionFormat {\r\n   open val rangeMin: Int\r\n   open val rangeMax: Int\r\n   open val precision: Int\r\n}\r\n\r\npublic external interface WebGLRenderingContextBase {\r\n   val canvas: HTMLCanvasElement\r\n   val drawingBufferWidth: Int\r\n   val drawingBufferHeight: Int\r\n   fun getContextAttributes(): WebGLContextAttributes?\r\n   fun isContextLost(): Boolean\r\n   fun getSupportedExtensions(): Array<String>?\r\n   fun getExtension(name: String): dynamic\r\n   fun activeTexture(texture: Int): Unit\r\n   fun attachShader(program: WebGLProgram?, shader: WebGLShader?): Unit\r\n   fun bindAttribLocation(program: WebGLProgram?, index: Int, name: String): Unit\r\n   fun bindBuffer(target: Int, buffer: WebGLBuffer?): Unit\r\n   fun bindFramebuffer(target: Int, framebuffer: WebGLFramebuffer?): Unit\r\n   fun bindRenderbuffer(target: Int, renderbuffer: WebGLRenderbuffer?): Unit\r\n   fun bindTexture(target: Int, texture: WebGLTexture?): Unit\r\n   fun blendColor(red: Float, green: Float, blue: Float, alpha: Float): Unit\r\n   fun blendEquation(mode: Int): Unit\r\n   fun blendEquationSeparate(modeRGB: Int, modeAlpha: Int): Unit\r\n   fun blendFunc(sfactor: Int, dfactor: Int): Unit\r\n   fun blendFuncSeparate(srcRGB: Int, dstRGB: Int, srcAlpha: Int, dstAlpha: Int): Unit\r\n   fun bufferData(target: Int, size: Int, usage: Int): Unit\r\n   fun bufferData(target: Int, data: BufferDataSource?, usage: Int): Unit\r\n   fun bufferSubData(target: Int, offset: Int, data: BufferDataSource?): Unit\r\n   fun checkFramebufferStatus(target: Int): Int\r\n   fun clear(mask: Int): Unit\r\n   fun clearColor(red: Float, green: Float, blue: Float, alpha: Float): Unit\r\n   fun clearDepth(depth: Float): Unit\r\n   fun clearStencil(s: Int): Unit\r\n   fun colorMask(red: Boolean, green: Boolean, blue: Boolean, alpha: Boolean): Unit\r\n   fun compileShader(shader: WebGLShader?): Unit\r\n   fun compressedTexImage2D(target: Int, level: Int, internalformat: Int, width: Int, height: Int, border: Int, data: ArrayBufferView): Unit\r\n   fun compressedTexSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, width: Int, height: Int, format: Int, data: ArrayBufferView): Unit\r\n   fun copyTexImage2D(target: Int, level: Int, internalformat: Int, x: Int, y: Int, width: Int, height: Int, border: Int): Unit\r\n   fun copyTexSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, x: Int, y: Int, width: Int, height: Int): Unit\r\n   fun createBuffer(): WebGLBuffer?\r\n   fun createFramebuffer(): WebGLFramebuffer?\r\n   fun createProgram(): WebGLProgram?\r\n   fun createRenderbuffer(): WebGLRenderbuffer?\r\n   fun createShader(type: Int): WebGLShader?\r\n   fun createTexture(): WebGLTexture?\r\n   fun cullFace(mode: Int): Unit\r\n   fun deleteBuffer(buffer: WebGLBuffer?): Unit\r\n   fun deleteFramebuffer(framebuffer: WebGLFramebuffer?): Unit\r\n   fun deleteProgram(program: WebGLProgram?): Unit\r\n   fun deleteRenderbuffer(renderbuffer: WebGLRenderbuffer?): Unit\r\n   fun deleteShader(shader: WebGLShader?): Unit\r\n   fun deleteTexture(texture: WebGLTexture?): Unit\r\n   fun depthFunc(func: Int): Unit\r\n   fun depthMask(flag: Boolean): Unit\r\n   fun depthRange(zNear: Float, zFar: Float): Unit\r\n   fun detachShader(program: WebGLProgram?, shader: WebGLShader?): Unit\r\n   fun disable(cap: Int): Unit\r\n   fun disableVertexAttribArray(index: Int): Unit\r\n   fun drawArrays(mode: Int, first: Int, count: Int): Unit\r\n   fun drawElements(mode: Int, count: Int, type: Int, offset: Int): Unit\r\n   fun enable(cap: Int): Unit\r\n   fun enableVertexAttribArray(index: Int): Unit\r\n   fun finish(): Unit\r\n   fun flush(): Unit\r\n   fun framebufferRenderbuffer(target: Int, attachment: Int, renderbuffertarget: Int, renderbuffer: WebGLRenderbuffer?): Unit\r\n   fun framebufferTexture2D(target: Int, attachment: Int, textarget: Int, texture: WebGLTexture?, level: Int): Unit\r\n   fun frontFace(mode: Int): Unit\r\n   fun generateMipmap(target: Int): Unit\r\n   fun

getActiveAttrib(program: WebGLProgram?, index: Int): WebGLActiveInfo?\r\n fun getActiveUniform(program: WebGLProgram?, index: Int): WebGLActiveInfo?\r\n fun getAttachedShaders(program: WebGLProgram?): Array<WebGLShader>?\r\n fun getAttribLocation(program: WebGLProgram?, name: String): Int\r\n fun getBufferParameter(target: Int, pname: Int): Any?\r\n fun getParameter(pname: Int): Any?\r\n fun getError(): Int\r\n fun getFramebufferAttachmentParameter(target: Int, attachment: Int, pname: Int): Any?\r\n fun getProgramParameter(program: WebGLProgram?, pname: Int): Any?\r\n fun getProgramInfoLog(program: WebGLProgram?): String?\r\n fun getRenderbufferParameter(target: Int, pname: Int): Any?\r\n fun getShaderParameter(shader: WebGLShader?, pname: Int): Any?\r\n fun getShaderPrecisionFormat(shadertype: Int, precisiontype: Int): WebGLShaderPrecisionFormat?\r\n fun getShaderInfoLog(shader: WebGLShader?): String?\r\n fun getShaderSource(shader: WebGLShader?): String?\r\n fun getTexParameter(target: Int, pname: Int): Any?\r\n fun getUniform(program: WebGLProgram?, location: WebGLUniformLocation?): Any?\r\n fun getUniformLocation(program: WebGLProgram?, name: String): WebGLUniformLocation?\r\n fun getVertexAttrib(index: Int, pname: Int): Any?\r\n fun getVertexAttribOffset(index: Int, pname: Int): Int\r\n fun hint(target: Int, mode: Int): Unit\r\n fun isBuffer(buffer: WebGLBuffer?): Boolean\r\n fun isEnabled(cap: Int): Boolean\r\n fun isFramebuffer(framebuffer: WebGLFramebuffer?): Boolean\r\n fun isProgram(program: WebGLProgram?): Boolean\r\n fun isRenderbuffer(renderbuffer: WebGLRenderbuffer?): Boolean\r\n fun isShader(shader: WebGLShader?): Boolean\r\n fun isTexture(texture: WebGLTexture?): Boolean\r\n fun lineWidth(width: Float): Unit\r\n fun linkProgram(program: WebGLProgram?): Unit\r\n fun pixelStorei(pname: Int, param: Int): Unit\r\n fun polygonOffset(factor: Float, units: Float): Unit\r\n fun readPixels(x: Int, y: Int, width: Int, height: Int, format: Int, type: Int, pixels: ArrayBufferView?): Unit\r\n fun renderbufferStorage(target: Int, internalformat: Int, width: Int, height: Int): Unit\r\n fun sampleCoverage(value: Float, invert: Boolean): Unit\r\n fun scissor(x: Int, y: Int, width: Int, height: Int): Unit\r\n fun shaderSource(shader: WebGLShader?, source: String): Unit\r\n fun stencilFunc(func: Int, ref: Int, mask: Int): Unit\r\n fun stencilFuncSeparate(face: Int, func: Int, ref: Int, mask: Int): Unit\r\n fun stencilMask(mask: Int): Unit\r\n fun stencilMaskSeparate(face: Int, mask: Int): Unit\r\n fun stencilOp(fail: Int, zfail: Int, zpass: Int): Unit\r\n fun stencilOpSeparate(face: Int, fail: Int, zfail: Int, zpass: Int): Unit\r\n fun texImage2D(target: Int, level: Int, internalformat: Int, width: Int, height: Int, border: Int, format: Int, type: Int, pixels: ArrayBufferView?): Unit\r\n fun texImage2D(target: Int, level: Int, internalformat: Int, format: Int, type: Int, source: TexImageSource?): Unit\r\n fun texParameterf(target: Int, pname: Int, param: Float): Unit\r\n fun texParameteri(target: Int, pname: Int, param: Int): Unit\r\n fun texSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, width: Int, height: Int, format: Int, type: Int, pixels: ArrayBufferView?): Unit\r\n fun texSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, format: Int, type: Int, source: TexImageSource?): Unit\r\n fun uniform1f(location: WebGLUniformLocation?, x: Float): Unit\r\n fun uniform1fv(location: WebGLUniformLocation?, v: Float32Array): Unit\r\n fun uniform1fv(location: WebGLUniformLocation?, v: Array<Float>): Unit\r\n fun uniform1i(location: WebGLUniformLocation?, x: Int): Unit\r\n fun uniform1iv(location: WebGLUniformLocation?, v: Int32Array): Unit\r\n fun uniform1iv(location: WebGLUniformLocation?, v: Array<Int>): Unit\r\n fun uniform2f(location: WebGLUniformLocation?, x: Float, y: Float): Unit\r\n fun uniform2fv(location: WebGLUniformLocation?, v: Float32Array): Unit\r\n fun uniform2fv(location: WebGLUniformLocation?, v: Array<Float>): Unit\r\n fun uniform2i(location: WebGLUniformLocation?, x: Int, y: Int): Unit\r\n fun uniform2iv(location: WebGLUniformLocation?, v: Int32Array): Unit\r\n fun uniform2iv(location: WebGLUniformLocation?, v: Array<Int>): Unit\r\n fun uniform3f(location: WebGLUniformLocation?, x: Float, y: Float, z: Float): Unit\r\n fun uniform3fv(location: WebGLUniformLocation?, v: Float32Array): Unit\r\n fun uniform3fv(location: WebGLUniformLocation?, v: Array<Float>): Unit\r\n fun uniform3i(location: WebGLUniformLocation?, x: Int, y: Int, z: Int): Unit\r\n fun uniform3iv(location: WebGLUniformLocation?, v: Int32Array): Unit\r\n fun uniform3iv(location: WebGLUniformLocation?, v: Array<Int>): Unit\r\n fun uniform4f(location: WebGLUniformLocation?, x: Float, y: Float, z: Float, w: Float): Unit\r\n fun uniform4fv(location: WebGLUniformLocation?, v: Float32Array): Unit\r\n fun uniform4fv(location: WebGLUniformLocation?, v: Array<Float>): Unit\r\n fun uniform4i(location: WebGLUniformLocation?, x: Int, y: Int, z: Int, w: Int): Unit\r\n fun uniform4iv(location:

WebGLUniformLocation?, v: Int32Array): Unit\r\n fun uniform4iv(location: WebGLUniformLocation?, v: Array<Int>): Unit\r\n fun uniformMatrix2fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array): Unit\r\n fun uniformMatrix2fv(location: WebGLUniformLocation?, transpose: Boolean, value: Array<Float>): Unit\r\n fun uniformMatrix3fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array): Unit\r\n fun uniformMatrix3fv(location: WebGLUniformLocation?, transpose: Boolean, value: Array<Float>): Unit\r\n fun uniformMatrix4fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array): Unit\r\n fun uniformMatrix4fv(location: WebGLUniformLocation?, transpose: Boolean, value: Array<Float>): Unit\r\n fun useProgram(program: WebGLProgram?): Unit\r\n fun validateProgram(program: WebGLProgram?): Unit\r\n fun vertexAttrib1f(index: Int, x: Float): Unit\r\n fun vertexAttrib1fv(index: Int, values: dynamic): Unit\r\n fun vertexAttrib2f(index: Int, x: Float, y: Float): Unit\r\n fun vertexAttrib2fv(index: Int, values: dynamic): Unit\r\n fun vertexAttrib3f(index: Int, x: Float, y: Float, z: Float): Unit\r\n fun vertexAttrib3fv(index: Int, values: dynamic): Unit\r\n fun vertexAttrib4f(index: Int, x: Float, y: Float, z: Float, w: Float): Unit\r\n fun vertexAttrib4fv(index: Int, values: dynamic): Unit\r\n fun vertexAttribPointer(index: Int, size: Int, type: Int, normalized: Boolean, stride: Int, offset: Int): Unit\r\n fun viewport(x: Int, y: Int, width: Int, height: Int): Unit\r\n\r\n companion object {\r\n val DEPTH_BUFFER_BIT: Int\r\n val STENCIL_BUFFER_BIT: Int\r\n val COLOR_BUFFER_BIT: Int\r\n val POINTS: Int\r\n val LINES: Int\r\n val LINE_LOOP: Int\r\n val LINE_STRIP: Int\r\n val TRIANGLES: Int\r\n val TRIANGLE_STRIP: Int\r\n val TRIANGLE_FAN: Int\r\n val ZERO: Int\r\n val ONE: Int\r\n val SRC_COLOR: Int\r\n val ONE_MINUS_SRC_COLOR: Int\r\n val SRC_ALPHA: Int\r\n val ONE_MINUS_SRC_ALPHA: Int\r\n val DST_ALPHA: Int\r\n val ONE_MINUS_DST_ALPHA: Int\r\n val DST_COLOR: Int\r\n val ONE_MINUS_DST_COLOR: Int\r\n val SRC_ALPHA_SATURATE: Int\r\n val FUNC_ADD: Int\r\n val BLEND_EQUATION: Int\r\n val BLEND_EQUATION_RGB: Int\r\n val BLEND_EQUATION_ALPHA: Int\r\n val FUNC_SUBTRACT: Int\r\n val FUNC_REVERSE_SUBTRACT: Int\r\n val BLEND_DST_RGB: Int\r\n val BLEND_SRC_RGB: Int\r\n val BLEND_DST_ALPHA: Int\r\n val BLEND_SRC_ALPHA: Int\r\n val CONSTANT_COLOR: Int\r\n val ONE_MINUS_CONSTANT_COLOR: Int\r\n val CONSTANT_ALPHA: Int\r\n val ONE_MINUS_CONSTANT_ALPHA: Int\r\n val BLEND_COLOR: Int\r\n val ARRAY_BUFFER: Int\r\n val ELEMENT_ARRAY_BUFFER: Int\r\n val ARRAY_BUFFER_BINDING: Int\r\n val ELEMENT_ARRAY_BUFFER_BINDING: Int\r\n val STREAM_DRAW: Int\r\n val STATIC_DRAW: Int\r\n val DYNAMIC_DRAW: Int\r\n val BUFFER_SIZE: Int\r\n val BUFFER_USAGE: Int\r\n val CURRENT_VERTEX_ATTRIB: Int\r\n val FRONT: Int\r\n val BACK: Int\r\n val FRONT_AND_BACK: Int\r\n val CULL_FACE: Int\r\n val BLEND: Int\r\n val DITHER: Int\r\n val STENCIL_TEST: Int\r\n val DEPTH_TEST: Int\r\n val SCISSOR_TEST: Int\r\n val POLYGON_OFFSET_FILL: Int\r\n val SAMPLE_ALPHA_TO_COVERAGE: Int\r\n val SAMPLE_COVERAGE: Int\r\n val NO_ERROR: Int\r\n val INVALID_ENUM: Int\r\n val INVALID_VALUE: Int\r\n val INVALID_OPERATION: Int\r\n val OUT_OF_MEMORY: Int\r\n val CW: Int\r\n val CCW: Int\r\n val LINE_WIDTH: Int\r\n val ALIASED_POINT_SIZE_RANGE: Int\r\n val ALIASED_LINE_WIDTH_RANGE: Int\r\n val CULL_FACE_MODE: Int\r\n val FRONT_FACE: Int\r\n val DEPTH_RANGE: Int\r\n val DEPTH_WRITEMASK: Int\r\n val DEPTH_CLEAR_VALUE: Int\r\n val DEPTH_FUNC: Int\r\n val STENCIL_CLEAR_VALUE: Int\r\n val STENCIL_FUNC: Int\r\n val STENCIL_FAIL: Int\r\n val STENCIL_PASS_DEPTH_FAIL: Int\r\n val STENCIL_PASS_DEPTH_PASS: Int\r\n val STENCIL_REF: Int\r\n val STENCIL_VALUE_MASK: Int\r\n val STENCIL_WRITEMASK: Int\r\n val STENCIL_BACK_FUNC: Int\r\n val STENCIL_BACK_FAIL: Int\r\n val STENCIL_BACK_PASS_DEPTH_FAIL: Int\r\n val STENCIL_BACK_PASS_DEPTH_PASS: Int\r\n val STENCIL_BACK_REF: Int\r\n val STENCIL_BACK_VALUE_MASK: Int\r\n val STENCIL_BACK_WRITEMASK: Int\r\n val VIEWPORT: Int\r\n val SCISSOR_BOX: Int\r\n val COLOR_CLEAR_VALUE: Int\r\n val COLOR_WRITEMASK: Int\r\n val UNPACK_ALIGNMENT: Int\r\n val PACK_ALIGNMENT: Int\r\n

val MAX_TEXTURE_SIZE: Int\r\n val MAX_VIEWPORT_DIMS: Int\r\n val SUBPIXEL_BITS: Int\r\n val RED_BITS: Int\r\n val GREEN_BITS: Int\r\n val BLUE_BITS: Int\r\n val ALPHA_BITS: Int\r\n val DEPTH_BITS: Int\r\n val STENCIL_BITS: Int\r\n val POLYGON_OFFSET_UNITS: Int\r\n val POLYGON_OFFSET_FACTOR: Int\r\n val TEXTURE_BINDING_2D: Int\r\n val SAMPLE_BUFFERS: Int\r\n val SAMPLES: Int\r\n val SAMPLE_COVERAGE_VALUE: Int\r\n val SAMPLE_COVERAGE_INVERT: Int\r\n val COMPRESSED_TEXTURE_FORMATS: Int\r\n val DONT_CARE: Int\r\n val FASTEST: Int\r\n val NICEST: Int\r\n val GENERATE_MIPMAP_HINT: Int\r\n val BYTE: Int\r\n val UNSIGNED_BYTE: Int\r\n val SHORT: Int\r\n val UNSIGNED_SHORT: Int\r\n val INT: Int\r\n val UNSIGNED_INT: Int\r\n val FLOAT: Int\r\n val DEPTH_COMPONENT: Int\r\n val ALPHA: Int\r\n val RGB: Int\r\n val RGBA: Int\r\n val LUMINANCE: Int\r\n val LUMINANCE_ALPHA: Int\r\n val UNSIGNED_SHORT_4_4_4_4: Int\r\n val UNSIGNED_SHORT_5_5_5_1: Int\r\n val UNSIGNED_SHORT_5_6_5: Int\r\n val FRAGMENT_SHADER: Int\r\n val VERTEX_SHADER: Int\r\n val MAX_VERTEX_ATTRIBS: Int\r\n val MAX_VERTEX_UNIFORM_VECTORS: Int\r\n val MAX_VARYING_VECTORS: Int\r\n val MAX_COMBINED_TEXTURE_IMAGE_UNITS: Int\r\n val MAX_VERTEX_TEXTURE_IMAGE_UNITS: Int\r\n val MAX_TEXTURE_IMAGE_UNITS: Int\r\n val MAX_FRAGMENT_UNIFORM_VECTORS: Int\r\n val SHADER_TYPE: Int\r\n val DELETE_STATUS: Int\r\n val LINK_STATUS: Int\r\n val VALIDATE_STATUS: Int\r\n val ATTACHED_SHADERS: Int\r\n val ACTIVE_UNIFORMS: Int\r\n val ACTIVE_ATTRIBUTES: Int\r\n val SHADING_LANGUAGE_VERSION: Int\r\n val CURRENT_PROGRAM: Int\r\n val NEVER: Int\r\n val LESS: Int\r\n val EQUAL: Int\r\n val LEQUAL: Int\r\n val GREATER: Int\r\n val NOTEQUAL: Int\r\n val GEQUAL: Int\r\n val ALWAYS: Int\r\n val KEEP: Int\r\n val REPLACE: Int\r\n val INCR: Int\r\n val DECR: Int\r\n val INVERT: Int\r\n val INCR_WRAP: Int\r\n val DECR_WRAP: Int\r\n val VENDOR: Int\r\n val RENDERER: Int\r\n val VERSION: Int\r\n val NEAREST: Int\r\n val LINEAR: Int\r\n val NEAREST_MIPMAP_NEAREST: Int\r\n val LINEAR_MIPMAP_NEAREST: Int\r\n val NEAREST_MIPMAP_LINEAR: Int\r\n val LINEAR_MIPMAP_LINEAR: Int\r\n val TEXTURE_MAG_FILTER: Int\r\n val TEXTURE_MIN_FILTER: Int\r\n val TEXTURE_WRAP_S: Int\r\n val TEXTURE_WRAP_T: Int\r\n val TEXTURE_2D: Int\r\n val TEXTURE: Int\r\n val TEXTURE_CUBE_MAP: Int\r\n val TEXTURE_BINDING_CUBE_MAP: Int\r\n val TEXTURE_CUBE_MAP_POSITIVE_X: Int\r\n val TEXTURE_CUBE_MAP_NEGATIVE_X: Int\r\n val TEXTURE_CUBE_MAP_POSITIVE_Y: Int\r\n val TEXTURE_CUBE_MAP_NEGATIVE_Y: Int\r\n val TEXTURE_CUBE_MAP_POSITIVE_Z: Int\r\n val TEXTURE_CUBE_MAP_NEGATIVE_Z: Int\r\n val MAX_CUBE_MAP_TEXTURE_SIZE: Int\r\n val TEXTURE0: Int\r\n val TEXTURE1: Int\r\n val TEXTURE2: Int\r\n val TEXTURE3: Int\r\n val TEXTURE4: Int\r\n val TEXTURE5: Int\r\n val TEXTURE6: Int\r\n val TEXTURE7: Int\r\n val TEXTURE8: Int\r\n val TEXTURE9: Int\r\n val TEXTURE10: Int\r\n val TEXTURE11: Int\r\n val TEXTURE12: Int\r\n val TEXTURE13: Int\r\n val TEXTURE14: Int\r\n val TEXTURE15: Int\r\n val TEXTURE16: Int\r\n val TEXTURE17: Int\r\n val TEXTURE18: Int\r\n val TEXTURE19: Int\r\n val TEXTURE20: Int\r\n val TEXTURE21: Int\r\n val TEXTURE22: Int\r\n val TEXTURE23: Int\r\n val TEXTURE24: Int\r\n val TEXTURE25: Int\r\n val TEXTURE26: Int\r\n val TEXTURE27: Int\r\n val TEXTURE28: Int\r\n val TEXTURE29: Int\r\n val TEXTURE30: Int\r\n val TEXTURE31: Int\r\n val ACTIVE_TEXTURE: Int\r\n val REPEAT: Int\r\n val CLAMP_TO_EDGE: Int\r\n val MIRRORED_REPEAT: Int\r\n val FLOAT_VEC2: Int\r\n val FLOAT_VEC3: Int\r\n val FLOAT_VEC4: Int\r\n val INT_VEC2: Int\r\n val INT_VEC3: Int\r\n val INT_VEC4: Int\r\n val BOOL: Int\r\n val BOOL_VEC2: Int\r\n val BOOL_VEC3: Int\r\n val BOOL_VEC4: Int\r\n val FLOAT_MAT2: Int\r\n val FLOAT_MAT3: Int\r\n val FLOAT_MAT4: Int\r\n val SAMPLER_2D: Int\r\n val SAMPLER_CUBE: Int\r\n val VERTEX_ATTRIB_ARRAY_ENABLED: Int\r\n val VERTEX_ATTRIB_ARRAY_SIZE: Int\r\n val VERTEX_ATTRIB_ARRAY_STRIDE: Int\r\n val VERTEX_ATTRIB_ARRAY_TYPE: Int\r\n val

VERTEX_ATTRIB_ARRAY_NORMALIZED: Int\r\n val VERTEX_ATTRIB_ARRAY_POINTER: Int\r\n val VERTEX_ATTRIB_ARRAY_BUFFER_BINDING: Int\r\n val IMPLEMENTATION_COLOR_READ_TYPE: Int\r\n val IMPLEMENTATION_COLOR_READ_FORMAT: Int\r\n val COMPILE_STATUS: Int\r\n val LOW_FLOAT: Int\r\n val MEDIUM_FLOAT: Int\r\n val HIGH_FLOAT: Int\r\n val LOW_INT: Int\r\n val MEDIUM_INT: Int\r\n val HIGH_INT: Int\r\n val FRAMEBUFFER: Int\r\n val RENDERBUFFER: Int\r\n val RGBA4: Int\r\n val RGB5_A1: Int\r\n val RGB565: Int\r\n val DEPTH_COMPONENT16: Int\r\n val STENCIL_INDEX: Int\r\n val STENCIL_INDEX8: Int\r\n val DEPTH_STENCIL: Int\r\n val RENDERBUFFER_WIDTH: Int\r\n val RENDERBUFFER_HEIGHT: Int\r\n val RENDERBUFFER_INTERNAL_FORMAT: Int\r\n val RENDERBUFFER_RED_SIZE: Int\r\n val RENDERBUFFER_GREEN_SIZE: Int\r\n val RENDERBUFFER_BLUE_SIZE: Int\r\n val RENDERBUFFER_ALPHA_SIZE: Int\r\n val RENDERBUFFER_DEPTH_SIZE: Int\r\n val RENDERBUFFER_STENCIL_SIZE: Int\r\n val FRAMEBUFFER_ATTACHMENT_OBJECT_TYPE: Int\r\n val FRAMEBUFFER_ATTACHMENT_OBJECT_NAME: Int\r\n val FRAMEBUFFER_ATTACHMENT_TEXTURE_LEVEL: Int\r\n val FRAMEBUFFER_ATTACHMENT_TEXTURE_CUBE_MAP_FACE: Int\r\n val COLOR_ATTACHMENT0: Int\r\n val DEPTH_ATTACHMENT: Int\r\n val STENCIL_ATTACHMENT: Int\r\n val DEPTH_STENCIL_ATTACHMENT: Int\r\n val NONE: Int\r\n val FRAMEBUFFER_COMPLETE: Int\r\n val FRAMEBUFFER_INCOMPLETE_ATTACHMENT: Int\r\n val FRAMEBUFFER_INCOMPLETE_MISSING_ATTACHMENT: Int\r\n val FRAMEBUFFER_INCOMPLETE_DIMENSIONS: Int\r\n val FRAMEBUFFER_UNSUPPORTED: Int\r\n val FRAMEBUFFER_BINDING: Int\r\n val RENDERBUFFER_BINDING: Int\r\n val MAX_RENDERBUFFER_SIZE: Int\r\n val INVALID_FRAMEBUFFER_OPERATION: Int\r\n val UNPACK_FLIP_Y_WEBGL: Int\r\n val UNPACK_PREMULTIPLY_ALPHA_WEBGL: Int\r\n val CONTEXT_LOST_WEBGL: Int\r\n val UNPACK_COLORSPACE_CONVERSION_WEBGL: Int\r\n val BROWSER_DEFAULT_WEBGL: Int\r\n }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [WebGLRenderingContext](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderingContext) to Kotlin\r\n */\r\npublic external abstract class WebGLRenderingContext : WebGLRenderingContextBase, RenderingContext {\r\n\r\n companion object {\r\n val DEPTH_BUFFER_BIT: Int\r\n val STENCIL_BUFFER_BIT: Int\r\n val COLOR_BUFFER_BIT: Int\r\n val POINTS: Int\r\n val LINES: Int\r\n val LINE_LOOP: Int\r\n val LINE_STRIP: Int\r\n val TRIANGLES: Int\r\n val TRIANGLE_STRIP: Int\r\n val TRIANGLE_FAN: Int\r\n val ZERO: Int\r\n val ONE: Int\r\n val SRC_COLOR: Int\r\n val ONE_MINUS_SRC_COLOR: Int\r\n val SRC_ALPHA: Int\r\n val ONE_MINUS_SRC_ALPHA: Int\r\n val DST_ALPHA: Int\r\n val ONE_MINUS_DST_ALPHA: Int\r\n val DST_COLOR: Int\r\n val ONE_MINUS_DST_COLOR: Int\r\n val SRC_ALPHA_SATURATE: Int\r\n val FUNC_ADD: Int\r\n val BLEND_EQUATION: Int\r\n val BLEND_EQUATION_RGB: Int\r\n val BLEND_EQUATION_ALPHA: Int\r\n val FUNC_SUBTRACT: Int\r\n val FUNC_REVERSE_SUBTRACT: Int\r\n val BLEND_DST_RGB: Int\r\n val BLEND_SRC_RGB: Int\r\n val BLEND_DST_ALPHA: Int\r\n val BLEND_SRC_ALPHA: Int\r\n val CONSTANT_COLOR: Int\r\n val ONE_MINUS_CONSTANT_COLOR: Int\r\n val CONSTANT_ALPHA: Int\r\n val ONE_MINUS_CONSTANT_ALPHA: Int\r\n val BLEND_COLOR: Int\r\n val ARRAY_BUFFER: Int\r\n val ELEMENT_ARRAY_BUFFER: Int\r\n val ARRAY_BUFFER_BINDING: Int\r\n val ELEMENT_ARRAY_BUFFER_BINDING: Int\r\n val STREAM_DRAW: Int\r\n val STATIC_DRAW: Int\r\n val DYNAMIC_DRAW: Int\r\n val BUFFER_SIZE: Int\r\n val BUFFER_USAGE: Int\r\n val CURRENT_VERTEX_ATTRIB: Int\r\n val FRONT: Int\r\n val BACK: Int\r\n val FRONT_AND_BACK: Int\r\n val CULL_FACE: Int\r\n val BLEND: Int\r\n val DITHER: Int\r\n val STENCIL_TEST: Int\r\n val DEPTH_TEST: Int\r\n val SCISSOR_TEST: Int\r\n val POLYGON_OFFSET_FILL: Int\r\n val SAMPLE_ALPHA_TO_COVERAGE: Int\r\n val

SAMPLE_COVERAGE: Int\r\n val NO_ERROR: Int\r\n val INVALID_ENUM: Int\r\n val INVALID_VALUE: Int\r\n val INVALID_OPERATION: Int\r\n val OUT_OF_MEMORY: Int\r\n val CW: Int\r\n val CCW: Int\r\n val LINE_WIDTH: Int\r\n val ALIASED_POINT_SIZE_RANGE: Int\r\n val ALIASED_LINE_WIDTH_RANGE: Int\r\n val CULL_FACE_MODE: Int\r\n val FRONT_FACE: Int\r\n val DEPTH_RANGE: Int\r\n val DEPTH_WRITEMASK: Int\r\n val DEPTH_CLEAR_VALUE: Int\r\n val DEPTH_FUNC: Int\r\n val STENCIL_CLEAR_VALUE: Int\r\n val STENCIL_FUNC: Int\r\n val STENCIL_FAIL: Int\r\n val STENCIL_PASS_DEPTH_FAIL: Int\r\n val STENCIL_PASS_DEPTH_PASS: Int\r\n val STENCIL_REF: Int\r\n val STENCIL_VALUE_MASK: Int\r\n val STENCIL_WRITEMASK: Int\r\n val STENCIL_BACK_FUNC: Int\r\n val STENCIL_BACK_FAIL: Int\r\n val STENCIL_BACK_PASS_DEPTH_FAIL: Int\r\n val STENCIL_BACK_PASS_DEPTH_PASS: Int\r\n val STENCIL_BACK_REF: Int\r\n val STENCIL_BACK_VALUE_MASK: Int\r\n val STENCIL_BACK_WRITEMASK: Int\r\n val VIEWPORT: Int\r\n val SCISSOR_BOX: Int\r\n val COLOR_CLEAR_VALUE: Int\r\n val COLOR_WRITEMASK: Int\r\n val UNPACK_ALIGNMENT: Int\r\n val PACK_ALIGNMENT: Int\r\n val MAX_TEXTURE_SIZE: Int\r\n val MAX_VIEWPORT_DIMS: Int\r\n val SUBPIXEL_BITS: Int\r\n val RED_BITS: Int\r\n val GREEN_BITS: Int\r\n val BLUE_BITS: Int\r\n val ALPHA_BITS: Int\r\n val DEPTH_BITS: Int\r\n val STENCIL_BITS: Int\r\n val POLYGON_OFFSET_UNITS: Int\r\n val POLYGON_OFFSET_FACTOR: Int\r\n val TEXTURE_BINDING_2D: Int\r\n val SAMPLE_BUFFERS: Int\r\n val SAMPLES: Int\r\n val SAMPLE_COVERAGE_VALUE: Int\r\n val SAMPLE_COVERAGE_INVERT: Int\r\n val COMPRESSED_TEXTURE_FORMATS: Int\r\n val DONT_CARE: Int\r\n val FASTEST: Int\r\n val NICEST: Int\r\n val GENERATE_MIPMAP_HINT: Int\r\n val BYTE: Int\r\n val UNSIGNED_BYTE: Int\r\n val SHORT: Int\r\n val UNSIGNED_SHORT: Int\r\n val INT: Int\r\n val UNSIGNED_INT: Int\r\n val FLOAT: Int\r\n val DEPTH_COMPONENT: Int\r\n val ALPHA: Int\r\n val RGB: Int\r\n val RGBA: Int\r\n val LUMINANCE: Int\r\n val LUMINANCE_ALPHA: Int\r\n val UNSIGNED_SHORT_4_4_4_4: Int\r\n val UNSIGNED_SHORT_5_5_5_1: Int\r\n val UNSIGNED_SHORT_5_6_5: Int\r\n val FRAGMENT_SHADER: Int\r\n val VERTEX_SHADER: Int\r\n val MAX_VERTEX_ATTRIBS: Int\r\n val MAX_VERTEX_UNIFORM_VECTORS: Int\r\n val MAX_VARYING_VECTORS: Int\r\n val MAX_COMBINED_TEXTURE_IMAGE_UNITS: Int\r\n val MAX_VERTEX_TEXTURE_IMAGE_UNITS: Int\r\n val MAX_TEXTURE_IMAGE_UNITS: Int\r\n val MAX_FRAGMENT_UNIFORM_VECTORS: Int\r\n val SHADER_TYPE: Int\r\n val DELETE_STATUS: Int\r\n val LINK_STATUS: Int\r\n val VALIDATE_STATUS: Int\r\n val ATTACHED_SHADERS: Int\r\n val ACTIVE_UNIFORMS: Int\r\n val ACTIVE_ATTRIBUTES: Int\r\n val SHADING_LANGUAGE_VERSION: Int\r\n val CURRENT_PROGRAM: Int\r\n val NEVER: Int\r\n val LESS: Int\r\n val EQUAL: Int\r\n val LEQUAL: Int\r\n val GREATER: Int\r\n val NOTEQUAL: Int\r\n val GEQUAL: Int\r\n val ALWAYS: Int\r\n val KEEP: Int\r\n val REPLACE: Int\r\n val INCR: Int\r\n val DECR: Int\r\n val INVERT: Int\r\n val INCR_WRAP: Int\r\n val DECR_WRAP: Int\r\n val VENDOR: Int\r\n val RENDERER: Int\r\n val VERSION: Int\r\n val NEAREST: Int\r\n val LINEAR: Int\r\n val NEAREST_MIPMAP_NEAREST: Int\r\n val LINEAR_MIPMAP_NEAREST: Int\r\n val NEAREST_MIPMAP_LINEAR: Int\r\n val LINEAR_MIPMAP_LINEAR: Int\r\n val TEXTURE_MAG_FILTER: Int\r\n val TEXTURE_MIN_FILTER: Int\r\n val TEXTURE_WRAP_S: Int\r\n val TEXTURE_WRAP_T: Int\r\n val TEXTURE_2D: Int\r\n val TEXTURE: Int\r\n val TEXTURE_CUBE_MAP: Int\r\n val TEXTURE_BINDING_CUBE_MAP: Int\r\n val TEXTURE_CUBE_MAP_POSITIVE_X: Int\r\n val TEXTURE_CUBE_MAP_NEGATIVE_X: Int\r\n val TEXTURE_CUBE_MAP_POSITIVE_Y: Int\r\n val TEXTURE_CUBE_MAP_NEGATIVE_Y: Int\r\n val TEXTURE_CUBE_MAP_POSITIVE_Z: Int\r\n val TEXTURE_CUBE_MAP_NEGATIVE_Z: Int\r\n val MAX_CUBE_MAP_TEXTURE_SIZE: Int\r\n val TEXTURE0: Int\r\n val TEXTURE1: Int\r\n val TEXTURE2: Int\r\n val TEXTURE3: Int\r\n val TEXTURE4: Int\r\n val TEXTURE5: Int\r\n val

TEXTURE6: Int\r\n val TEXTURE7: Int\r\n val TEXTURE8: Int\r\n val TEXTURE9: Int\r\n val TEXTURE10: Int\r\n val TEXTURE11: Int\r\n val TEXTURE12: Int\r\n val TEXTURE13: Int\r\n val TEXTURE14: Int\r\n val TEXTURE15: Int\r\n val TEXTURE16: Int\r\n val TEXTURE17: Int\r\n val TEXTURE18: Int\r\n val TEXTURE19: Int\r\n val TEXTURE20: Int\r\n val TEXTURE21: Int\r\n val TEXTURE22: Int\r\n val TEXTURE23: Int\r\n val TEXTURE24: Int\r\n val TEXTURE25: Int\r\n val TEXTURE26: Int\r\n val TEXTURE27: Int\r\n val TEXTURE28: Int\r\n val TEXTURE29: Int\r\n val TEXTURE30: Int\r\n val TEXTURE31: Int\r\n val ACTIVE_TEXTURE: Int\r\n val REPEAT: Int\r\n val CLAMP_TO_EDGE: Int\r\n val MIRRORED_REPEAT: Int\r\n val FLOAT_VEC2: Int\r\n val FLOAT_VEC3: Int\r\n val FLOAT_VEC4: Int\r\n val INT_VEC2: Int\r\n val INT_VEC3: Int\r\n val INT_VEC4: Int\r\n val BOOL: Int\r\n val BOOL_VEC2: Int\r\n val BOOL_VEC3: Int\r\n val BOOL_VEC4: Int\r\n val FLOAT_MAT2: Int\r\n val FLOAT_MAT3: Int\r\n val FLOAT_MAT4: Int\r\n val SAMPLER_2D: Int\r\n val SAMPLER_CUBE: Int\r\n val VERTEX_ATTRIB_ARRAY_ENABLED: Int\r\n val VERTEX_ATTRIB_ARRAY_SIZE: Int\r\n val VERTEX_ATTRIB_ARRAY_STRIDE: Int\r\n val VERTEX_ATTRIB_ARRAY_TYPE: Int\r\n val VERTEX_ATTRIB_ARRAY_NORMALIZED: Int\r\n val VERTEX_ATTRIB_ARRAY_POINTER: Int\r\n val VERTEX_ATTRIB_ARRAY_BUFFER_BINDING: Int\r\n val IMPLEMENTATION_COLOR_READ_TYPE: Int\r\n val IMPLEMENTATION_COLOR_READ_FORMAT: Int\r\n val COMPILE_STATUS: Int\r\n val LOW_FLOAT: Int\r\n val MEDIUM_FLOAT: Int\r\n val HIGH_FLOAT: Int\r\n val LOW_INT: Int\r\n val MEDIUM_INT: Int\r\n val HIGH_INT: Int\r\n val FRAMEBUFFER: Int\r\n val RENDERBUFFER: Int\r\n val RGBA4: Int\r\n val RGB5_A1: Int\r\n val RGB565: Int\r\n val DEPTH_COMPONENT16: Int\r\n val STENCIL_INDEX: Int\r\n val STENCIL_INDEX8: Int\r\n val DEPTH_STENCIL: Int\r\n val RENDERBUFFER_WIDTH: Int\r\n val RENDERBUFFER_HEIGHT: Int\r\n val RENDERBUFFER_INTERNAL_FORMAT: Int\r\n val RENDERBUFFER_RED_SIZE: Int\r\n val RENDERBUFFER_GREEN_SIZE: Int\r\n val RENDERBUFFER_BLUE_SIZE: Int\r\n val RENDERBUFFER_ALPHA_SIZE: Int\r\n val RENDERBUFFER_DEPTH_SIZE: Int\r\n val RENDERBUFFER_STENCIL_SIZE: Int\r\n val FRAMEBUFFER_ATTACHMENT_OBJECT_TYPE: Int\r\n val FRAMEBUFFER_ATTACHMENT_OBJECT_NAME: Int\r\n val FRAMEBUFFER_ATTACHMENT_TEXTURE_LEVEL: Int\r\n val FRAMEBUFFER_ATTACHMENT_TEXTURE_CUBE_MAP_FACE: Int\r\n val COLOR_ATTACHMENT0: Int\r\n val DEPTH_ATTACHMENT: Int\r\n val STENCIL_ATTACHMENT: Int\r\n val DEPTH_STENCIL_ATTACHMENT: Int\r\n val NONE: Int\r\n val FRAMEBUFFER_COMPLETE: Int\r\n val FRAMEBUFFER_INCOMPLETE_ATTACHMENT: Int\r\n val FRAMEBUFFER_INCOMPLETE_MISSING_ATTACHMENT: Int\r\n val FRAMEBUFFER_INCOMPLETE_DIMENSIONS: Int\r\n val FRAMEBUFFER_UNSUPPORTED: Int\r\n val FRAMEBUFFER_BINDING: Int\r\n val RENDERBUFFER_BINDING: Int\r\n val MAX_RENDERBUFFER_SIZE: Int\r\n val INVALID_FRAMEBUFFER_OPERATION: Int\r\n val UNPACK_FLIP_Y_WEBGL: Int\r\n val UNPACK_PREMULTIPLY_ALPHA_WEBGL: Int\r\n val CONTEXT_LOST_WEBGL: Int\r\n val UNPACK_COLORSPACE_CONVERSION_WEBGL: Int\r\n val BROWSER_DEFAULT_WEBGL: Int\r\n }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [WebGLContextEvent](https://developer.mozilla.org/en/docs/Web/API/WebGLContextEvent) to Kotlin\r\n */\r\npublic external open class WebGLContextEvent(type: String, eventInit: WebGLContextEventInit = definedExternally) : Event {\r\n open val statusMessage: String\r\n}\r\n\r\npublic external interface WebGLContextEventInit : EventInit {\r\n var statusMessage: String? /* = \"\" */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun WebGLContextEventInit(statusMessage: String? = \"\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): WebGLContextEventInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"statusMessage\"] = statusMessage\r\n o[\"bubbles\"] = bubbles\r\n o[\"cancelable\"] = cancelable\r\n o[\"composed\"] =

composed\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ArrayBuffer](https://developer.mozilla.org/en/docs/Web/API/ArrayBuffer) to Kotlin\r\n */\r\npublic external open class ArrayBuffer(length: Int) : BufferDataSource {\r\n   open val byteLength: Int\r\n   fun slice(begin: Int, end: Int = definedExternally): ArrayBuffer\r\n\r\n   companion object {\r\n   fun isView(value: Any?): Boolean\r\n   }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ArrayBufferView](https://developer.mozilla.org/en/docs/Web/API/ArrayBufferView) to Kotlin\r\n */\r\npublic external interface ArrayBufferView : BufferDataSource {\r\n   val buffer: ArrayBuffer\r\n   val byteOffset: Int\r\n   val byteLength: Int\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Int8Array](https://developer.mozilla.org/en/docs/Web/API/Int8Array) to Kotlin\r\n */\r\npublic external open class Int8Array : ArrayBufferView {\r\n   constructor(length: Int)\r\n   constructor(array: Int8Array)\r\n   constructor(array: Array<Byte>)\r\n   constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\r\n   open val length: Int\r\n   override val buffer: ArrayBuffer\r\n   override val byteOffset: Int\r\n   override val byteLength: Int\r\n   fun set(array: Int8Array, offset: Int = definedExternally): Unit\r\n   fun set(array: Array<Byte>, offset: Int = definedExternally): Unit\r\n   fun subarray(start: Int, end: Int): Int8Array\r\n\r\n   companion object {\r\n   val BYTES_PER_ELEMENT: Int\r\n   }\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun Int8Array.get(index: Int): Byte = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun Int8Array.set(index: Int, value: Byte): Unit { asDynamic()[index] = value; }\r\n\r\n/**\r\n * Exposes the JavaScript [Uint8Array](https://developer.mozilla.org/en/docs/Web/API/Uint8Array) to Kotlin\r\n */\r\npublic external open class Uint8Array : ArrayBufferView {\r\n   constructor(length: Int)\r\n   constructor(array: Uint8Array)\r\n   constructor(array: Array<Byte>)\r\n   constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\r\n   open val length: Int\r\n   override val buffer: ArrayBuffer\r\n   override val byteOffset: Int\r\n   override val byteLength: Int\r\n   fun set(array: Uint8Array, offset: Int = definedExternally): Unit\r\n   fun set(array: Array<Byte>, offset: Int = definedExternally): Unit\r\n   fun subarray(start: Int, end: Int): Uint8Array\r\n\r\n   companion object {\r\n   val BYTES_PER_ELEMENT: Int\r\n   }\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun Uint8Array.get(index: Int): Byte = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun Uint8Array.set(index: Int, value: Byte): Unit { asDynamic()[index] = value; }\r\n\r\n/**\r\n * Exposes the JavaScript [Uint8ClampedArray](https://developer.mozilla.org/en/docs/Web/API/Uint8ClampedArray) to Kotlin\r\n */\r\npublic external open class Uint8ClampedArray : ArrayBufferView {\r\n   constructor(length: Int)\r\n   constructor(array: Uint8ClampedArray)\r\n   constructor(array: Array<Byte>)\r\n   constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\r\n   open val length: Int\r\n   override val buffer: ArrayBuffer\r\n   override val byteOffset: Int\r\n   override val byteLength: Int\r\n   fun set(array: Uint8ClampedArray, offset: Int = definedExternally): Unit\r\n   fun set(array: Array<Byte>, offset: Int = definedExternally): Unit\r\n   fun subarray(start: Int, end: Int): Uint8ClampedArray\r\n\r\n   companion object {\r\n   val BYTES_PER_ELEMENT: Int\r\n   }\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun Uint8ClampedArray.get(index: Int): Byte = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun Uint8ClampedArray.set(index: Int, value: Byte): Unit { asDynamic()[index] = value; }\r\n\r\n/**\r\n * Exposes the JavaScript [Int16Array](https://developer.mozilla.org/en/docs/Web/API/Int16Array) to Kotlin\r\n */\r\npublic external open class Int16Array : ArrayBufferView {\r\n   constructor(length: Int)\r\n   constructor(array: Int16Array)\r\n   constructor(array: Array<Short>)\r\n   constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\r\n   open val length: Int\r\n   override val buffer: ArrayBuffer\r\n   override val byteOffset: Int\r\n   override val byteLength: Int\r\n   fun set(array: Int16Array, offset: Int = definedExternally): Unit\r\n   fun set(array: Array<Short>, offset: Int = definedExternally): Unit\r\n   fun subarray(start: Int, end: Int): Int16Array\r\n\r\n   companion object {\r\n   val BYTES_PER_ELEMENT: Int\r\n   }\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun Int16Array.get(index: Int): Short = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun Int16Array.set(index: Int, value: Short): Unit { asDynamic()[index] = value; }\r\n\r\n/**\r\n * Exposes the JavaScript

[Uint16Array](https://developer.mozilla.org/en/docs/Web/API/Uint16Array) to Kotlin\r\n */\r\npublic external open class Uint16Array : ArrayBufferView {\r\n constructor(length: Int)\r\n constructor(array: Uint16Array)\r\n constructor(array: Array<Short>)\r\n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\r\n open val length: Int\r\n override val buffer: ArrayBuffer\r\n override val byteOffset: Int\r\n override val byteLength: Int\r\n fun set(array: Uint16Array, offset: Int = definedExternally): Unit\r\n fun set(array: Array<Short>, offset: Int = definedExternally): Unit\r\n fun subarray(start: Int, end: Int): Uint16Array\r\n\r\n companion object {\r\n val BYTES_PER_ELEMENT: Int\r\n }\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun Uint16Array.get(index: Int): Short = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun Uint16Array.set(index: Int, value: Short): Unit { asDynamic()[index] = value; }\r\n\r\n/**\r\n * Exposes the JavaScript [Int32Array](https://developer.mozilla.org/en/docs/Web/API/Int32Array) to Kotlin\r\n */\r\npublic external open class Int32Array : ArrayBufferView {\r\n constructor(length: Int)\r\n constructor(array: Int32Array)\r\n constructor(array: Array<Int>)\r\n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\r\n open val length: Int\r\n override val buffer: ArrayBuffer\r\n override val byteOffset: Int\r\n override val byteLength: Int\r\n fun set(array: Int32Array, offset: Int = definedExternally): Unit\r\n fun set(array: Array<Int>, offset: Int = definedExternally): Unit\r\n fun subarray(start: Int, end: Int): Int32Array\r\n\r\n companion object {\r\n val BYTES_PER_ELEMENT: Int\r\n }\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun Int32Array.get(index: Int): Int = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun Int32Array.set(index: Int, value: Int): Unit { asDynamic()[index] = value; }\r\n\r\n/**\r\n * Exposes the JavaScript [Uint32Array](https://developer.mozilla.org/en/docs/Web/API/Uint32Array) to Kotlin\r\n */\r\npublic external open class Uint32Array : ArrayBufferView {\r\n constructor(length: Int)\r\n constructor(array: Uint32Array)\r\n constructor(array: Array<Int>)\r\n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\r\n open val length: Int\r\n override val buffer: ArrayBuffer\r\n override val byteOffset: Int\r\n override val byteLength: Int\r\n fun set(array: Uint32Array, offset: Int = definedExternally): Unit\r\n fun set(array: Array<Int>, offset: Int = definedExternally): Unit\r\n fun subarray(start: Int, end: Int): Uint32Array\r\n\r\n companion object {\r\n val BYTES_PER_ELEMENT: Int\r\n }\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun Uint32Array.get(index: Int): Int = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun Uint32Array.set(index: Int, value: Int): Unit { asDynamic()[index] = value; }\r\n\r\n/**\r\n * Exposes the JavaScript [Float32Array](https://developer.mozilla.org/en/docs/Web/API/Float32Array) to Kotlin\r\n */\r\npublic external open class Float32Array : ArrayBufferView {\r\n constructor(length: Int)\r\n constructor(array: Float32Array)\r\n constructor(array: Array<Float>)\r\n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\r\n open val length: Int\r\n override val buffer: ArrayBuffer\r\n override val byteOffset: Int\r\n override val byteLength: Int\r\n fun set(array: Float32Array, offset: Int = definedExternally): Unit\r\n fun set(array: Array<Float>, offset: Int = definedExternally): Unit\r\n fun subarray(start: Int, end: Int): Float32Array\r\n\r\n companion object {\r\n val BYTES_PER_ELEMENT: Int\r\n }\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun Float32Array.get(index: Int): Float = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun Float32Array.set(index: Int, value: Float): Unit { asDynamic()[index] = value; }\r\n\r\n/**\r\n * Exposes the JavaScript [Float64Array](https://developer.mozilla.org/en/docs/Web/API/Float64Array) to Kotlin\r\n */\r\npublic external open class Float64Array : ArrayBufferView {\r\n constructor(length: Int)\r\n constructor(array: Float64Array)\r\n constructor(array: Array<Double>)\r\n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\r\n open val length: Int\r\n override val buffer: ArrayBuffer\r\n override val byteOffset: Int\r\n override val byteLength: Int\r\n fun set(array: Float64Array, offset: Int = definedExternally): Unit\r\n fun set(array: Array<Double>, offset: Int = definedExternally): Unit\r\n fun subarray(start: Int, end: Int): Float64Array\r\n\r\n companion object {\r\n val BYTES_PER_ELEMENT: Int\r\n }\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun Float64Array.get(index: Int): Double = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun Float64Array.set(index: Int, value: Double):

Unit { asDynamic()[index] = value; }\r\n\r\n/**\r\n * Exposes the JavaScript [DataView](https://developer.mozilla.org/en/docs/Web/API/DataView) to Kotlin\r\n */\r\npublic external open class DataView(buffer: ArrayBuffer, byteOffset: Int = definedExternally, byteLength: Int = definedExternally) : ArrayBufferView {\r\n override val buffer: ArrayBuffer\r\n override val byteOffset: Int\r\n override val byteLength: Int\r\n fun getInt8(byteOffset: Int): Byte\r\n fun getUint8(byteOffset: Int): Byte\r\n fun getInt16(byteOffset: Int, littleEndian: Boolean = definedExternally): Short\r\n fun getUint16(byteOffset: Int, littleEndian: Boolean = definedExternally): Short\r\n fun getInt32(byteOffset: Int, littleEndian: Boolean = definedExternally): Int\r\n fun getUint32(byteOffset: Int, littleEndian: Boolean = definedExternally): Int\r\n fun getFloat32(byteOffset: Int, littleEndian: Boolean = definedExternally): Float\r\n fun getFloat64(byteOffset: Int, littleEndian: Boolean = definedExternally): Double\r\n fun setInt8(byteOffset: Int, value: Byte): Unit\r\n fun setUint8(byteOffset: Int, value: Byte): Unit\r\n fun setInt16(byteOffset: Int, value: Short, littleEndian: Boolean = definedExternally): Unit\r\n fun setUint16(byteOffset: Int, value: Short, littleEndian: Boolean = definedExternally): Unit\r\n fun setInt32(byteOffset: Int, value: Int, littleEndian: Boolean = definedExternally): Unit\r\n fun setUint32(byteOffset: Int, value: Int, littleEndian: Boolean = definedExternally): Unit\r\n fun setFloat32(byteOffset: Int, value: Float, littleEndian: Boolean = definedExternally): Unit\r\n fun setFloat64(byteOffset: Int, value: Double, littleEndian: Boolean = definedExternally): Unit\r\n}\r\n\r\npublic external @marker interface BufferDataSource {\r\n}\r\n\r\npublic external @marker interface TexImageSource {\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\r\n// See libraries/tools/idl2k for details\r\n\r\n@file:Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\r\npackage org.w3c.dom.clipboard\r\n\r\nimport kotlin.js.*\r\nimport org.khronos.webgl.*\r\nimport org.w3c.css.masking.*\r\nimport org.w3c.dom.*\r\nimport org.w3c.dom.css.*\r\nimport org.w3c.dom.events.*\r\nimport org.w3c.dom.mediacapture.*\r\nimport org.w3c.dom.parsing.*\r\nimport org.w3c.dom.pointerevents.*\r\nimport org.w3c.dom.svg.*\r\nimport org.w3c.dom.url.*\r\nimport org.w3c.fetch.*\r\nimport org.w3c.files.*\r\nimport org.w3c.notifications.*\r\nimport org.w3c.performance.*\r\nimport org.w3c.workers.*\r\nimport org.w3c.xhr.*\r\n\r\npublic external interface ClipboardEventInit : EventInit {\r\n var clipboardData: DataTransfer? /* = null */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ClipboardEventInit(clipboardData: DataTransfer? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ClipboardEventInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"clipboardData\"] = clipboardData\r\n o[\"bubbles\"] = bubbles\r\n o[\"cancelable\"] = cancelable\r\n o[\"composed\"] = composed\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ClipboardEvent](https://developer.mozilla.org/en/docs/Web/API/ClipboardEvent) to Kotlin\r\n */\r\npublic external open class ClipboardEvent(type: String, eventInitDict: ClipboardEventInit = definedExternally) : Event {\r\n open val clipboardData: DataTransfer?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Clipboard](https://developer.mozilla.org/en/docs/Web/API/Clipboard) to Kotlin\r\n */\r\npublic external abstract class Clipboard : EventTarget {\r\n fun read(): Promise<DataTransfer>\r\n fun readText(): Promise<String>\r\n fun write(data: DataTransfer): Promise<Unit>\r\n fun writeText(data: String): Promise<Unit>\r\n}\r\n\r\npublic external interface ClipboardPermissionDescriptor {\r\n var allowWithoutGesture: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ClipboardPermissionDescriptor(allowWithoutGesture: Boolean? = false): ClipboardPermissionDescriptor {\r\n val o = js(\"({})\")\r\n\r\n o[\"allowWithoutGesture\"] = allowWithoutGesture\r\n\r\n return o\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\r\n// See libraries/tools/idl2k for details\r\n\r\n@file:Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\r\npackage org.w3c.dom.css\r\n\r\nimport kotlin.js.*\r\nimport org.khronos.webgl.*\r\nimport org.w3c.css.masking.*\r\nimport

org.w3c.dom.*\r\nimport org.w3c.dom.clipboard.*\r\nimport org.w3c.dom.events.*\r\nimport org.w3c.dom.mediacapture.*\r\nimport org.w3c.dom.parsing.*\r\nimport org.w3c.dom.pointerevents.*\r\nimport org.w3c.dom.svg.*\r\nimport org.w3c.dom.url.*\r\nimport org.w3c.fetch.*\r\nimport org.w3c.files.*\r\nimport org.w3c.notifications.*\r\nimport org.w3c.performance.*\r\nimport org.w3c.workers.*\r\nimport org.w3c.xhr.*\r\n\r\n/**\r\n * Exposes the JavaScript [CSSStyleDeclaration](https://developer.mozilla.org/en/docs/Web/API/CSSStyleDeclaration) to Kotlin\r\n */\r\npublic external abstract class CSSStyleDeclaration : ItemArrayLike<String> {\r\n   open var cssText: String\r\n   override val length: Int\r\n   open val parentRule: CSSRule?\r\n   open var cssFloat: String\r\n   open var _dashed_attribute: String\r\n   open var _camel_cased_attribute: String\r\n   open var _webkit_cased_attribute: String\r\n   open var alignContent: String\r\n   open var alignItems: String\r\n   open var alignSelf: String\r\n   open var animation: String\r\n   open var animationDelay: String\r\n   open var animationDirection: String\r\n   open var animationDuration: String\r\n   open var animationFillMode: String\r\n   open var animationIterationCount: String\r\n   open var animationName: String\r\n   open var animationPlayState: String\r\n   open var animationTimingFunction: String\r\n   open var backfaceVisibility: String\r\n   open var background: String\r\n   open var backgroundAttachment: String\r\n   open var backgroundClip: String\r\n   open var backgroundColor: String\r\n   open var backgroundImage: String\r\n   open var backgroundOrigin: String\r\n   open var backgroundPosition: String\r\n   open var backgroundRepeat: String\r\n   open var backgroundSize: String\r\n   open var border: String\r\n   open var borderBottom: String\r\n   open var borderBottomColor: String\r\n   open var borderBottomLeftRadius: String\r\n   open var borderBottomRightRadius: String\r\n   open var borderBottomStyle: String\r\n   open var borderBottomWidth: String\r\n   open var borderCollapse: String\r\n   open var borderColor: String\r\n   open var borderImage: String\r\n   open var borderImageOutset: String\r\n   open var borderImageRepeat: String\r\n   open var borderImageSlice: String\r\n   open var borderImageSource: String\r\n   open var borderImageWidth: String\r\n   open var borderLeft: String\r\n   open var borderLeftColor: String\r\n   open var borderLeftStyle: String\r\n   open var borderLeftWidth: String\r\n   open var borderRadius: String\r\n   open var borderRight: String\r\n   open var borderRightColor: String\r\n   open var borderRightStyle: String\r\n   open var borderRightWidth: String\r\n   open var borderSpacing: String\r\n   open var borderStyle: String\r\n   open var borderTop: String\r\n   open var borderTopColor: String\r\n   open var borderTopLeftRadius: String\r\n   open var borderTopRightRadius: String\r\n   open var borderTopStyle: String\r\n   open var borderTopWidth: String\r\n   open var borderWidth: String\r\n   open var bottom: String\r\n   open var boxDecorationBreak: String\r\n   open var boxShadow: String\r\n   open var boxSizing: String\r\n   open var breakAfter: String\r\n   open var breakBefore: String\r\n   open var breakInside: String\r\n   open var captionSide: String\r\n   open var clear: String\r\n   open var clip: String\r\n   open var color: String\r\n   open var columnCount: String\r\n   open var columnFill: String\r\n   open var columnGap: String\r\n   open var columnRule: String\r\n   open var columnRuleColor: String\r\n   open var columnRuleStyle: String\r\n   open var columnRuleWidth: String\r\n   open var columnSpan: String\r\n   open var columnWidth: String\r\n   open var columns: String\r\n   open var content: String\r\n   open var counterIncrement: String\r\n   open var counterReset: String\r\n   open var cursor: String\r\n   open var direction: String\r\n   open var display: String\r\n   open var emptyCells: String\r\n   open var filter: String\r\n   open var flex: String\r\n   open var flexBasis: String\r\n   open var flexDirection: String\r\n   open var flexFlow: String\r\n   open var flexGrow: String\r\n   open var flexShrink: String\r\n   open var flexWrap: String\r\n   open var font: String\r\n   open var fontFamily: String\r\n   open var fontFeatureSettings: String\r\n   open var fontKerning: String\r\n   open var fontLanguageOverride: String\r\n   open var fontSize: String\r\n   open var fontSizeAdjust: String\r\n   open var fontStretch: String\r\n   open var fontStyle: String\r\n   open var fontSynthesis: String\r\n   open var fontVariant: String\r\n   open var fontVariantAlternates: String\r\n   open var fontVariantCaps: String\r\n   open var fontVariantEastAsian: String\r\n   open var fontVariantLigatures: String\r\n   open var fontVariantNumeric: String\r\n   open var fontVariantPosition: String\r\n   open var fontWeight: String\r\n   open var hangingPunctuation: String\r\n   open var height: String\r\n   open var hyphens: String\r\n   open var imageOrientation: String\r\n   open var imageRendering: String\r\n   open var imageResolution: String\r\n   open var imeMode: String\r\n   open var justifyContent: String\r\n   open var left:

String\r\n   open var letterSpacing: String\r\n   open var lineBreak: String\r\n   open var lineHeight: String\r\n   open var listStyle: String\r\n   open var listStyleImage: String\r\n   open var listStylePosition: String\r\n   open var listStyleType: String\r\n   open var margin: String\r\n   open var marginBottom: String\r\n   open var marginLeft: String\r\n   open var marginRight: String\r\n   open var marginTop: String\r\n   open var mark: String\r\n   open var markAfter: String\r\n   open var markBefore: String\r\n   open var marks: String\r\n   open var marqueeDirection: String\r\n   open var marqueePlayCount: String\r\n   open var marqueeSpeed: String\r\n   open var marqueeStyle: String\r\n   open var mask: String\r\n   open var maskType: String\r\n   open var maxHeight: String\r\n   open var maxWidth: String\r\n   open var minHeight: String\r\n   open var minWidth: String\r\n   open var navDown: String\r\n   open var navIndex: String\r\n   open var navLeft: String\r\n   open var navRight: String\r\n   open var navUp: String\r\n   open var objectFit: String\r\n   open var objectPosition: String\r\n   open var opacity: String\r\n   open var order: String\r\n   open var orphans: String\r\n   open var outline: String\r\n   open var outlineColor: String\r\n   open var outlineOffset: String\r\n   open var outlineStyle: String\r\n   open var outlineWidth: String\r\n   open var overflowWrap: String\r\n   open var overflowX: String\r\n   open var overflowY: String\r\n   open var padding: String\r\n   open var paddingBottom: String\r\n   open var paddingLeft: String\r\n   open var paddingRight: String\r\n   open var paddingTop: String\r\n   open var pageBreakAfter: String\r\n   open var pageBreakBefore: String\r\n   open var pageBreakInside: String\r\n   open var perspective: String\r\n   open var perspectiveOrigin: String\r\n   open var phonemes: String\r\n   open var position: String\r\n   open var quotes: String\r\n   open var resize: String\r\n   open var rest: String\r\n   open var restAfter: String\r\n   open var restBefore: String\r\n   open var right: String\r\n   open var tabSize: String\r\n   open var tableLayout: String\r\n   open var textAlign: String\r\n   open var textAlignLast: String\r\n   open var textCombineUpright: String\r\n   open var textDecoration: String\r\n   open var textDecorationColor: String\r\n   open var textDecorationLine: String\r\n   open var textDecorationStyle: String\r\n   open var textIndent: String\r\n   open var textJustify: String\r\n   open var textOrientation: String\r\n   open var textOverflow: String\r\n   open var textShadow: String\r\n   open var textTransform: String\r\n   open var textUnderlinePosition: String\r\n   open var top: String\r\n   open var transform: String\r\n   open var transformOrigin: String\r\n   open var transformStyle: String\r\n   open var transition: String\r\n   open var transitionDelay: String\r\n   open var transitionDuration: String\r\n   open var transitionProperty: String\r\n   open var transitionTimingFunction: String\r\n   open var unicodeBidi: String\r\n   open var verticalAlign: String\r\n   open var visibility: String\r\n   open var voiceBalance: String\r\n   open var voiceDuration: String\r\n   open var voicePitch: String\r\n   open var voicePitchRange: String\r\n   open var voiceRate: String\r\n   open var voiceStress: String\r\n   open var voiceVolume: String\r\n   open var whiteSpace: String\r\n   open var widows: String\r\n   open var width: String\r\n   open var wordBreak: String\r\n   open var wordSpacing: String\r\n   open var wordWrap: String\r\n   open var writingMode: String\r\n   open var zIndex: String\r\n   override fun item(index: Int): String\r\n   fun getPropertyValue(property: String): String\r\n   fun getPropertyPriority(property: String): String\r\n   fun setProperty(property: String, value: String, priority: String = definedExternally): Unit\r\n   fun setPropertyValue(property: String, value: String): Unit\r\n   fun setPropertyPriority(property: String, priority: String): Unit\r\n   fun removeProperty(property: String): String\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun CSSStyleDeclaration.get(index: Int): String? = asDynamic()[index]\r\n\r\npublic external abstract class MediaList : ItemArrayLike<String> {\r\n   open var mediaText: String\r\n   override val length: Int\r\n   override fun item(index: Int): String?\r\n   fun appendMedium(medium: String): Unit\r\n   fun deleteMedium(medium: String): Unit\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun MediaList.get(index: Int): String? = asDynamic()[index]\r\n\r\n/**\r\n * Exposes the JavaScript [StyleSheet](https://developer.mozilla.org/en/docs/Web/API/StyleSheet) to Kotlin\r\n */\r\npublic external abstract class StyleSheet {\r\n   open val type: String\r\n   open val href: String?\r\n   open val ownerNode: UnionElementOrProcessingInstruction?\r\n   open val parentStyleSheet: StyleSheet?\r\n   open val title: String?\r\n   open val media: MediaList\r\n   open var disabled: Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CSSStyleSheet](https://developer.mozilla.org/en/docs/Web/API/CSSStyleSheet) to Kotlin\r\n */\r\npublic external abstract class CSSStyleSheet : StyleSheet {\r\n   open val ownerRule: CSSRule?\r\n   open val cssRules:

CSSRuleList\r\n   fun insertRule(rule: String, index: Int): Int\r\n   fun deleteRule(index: Int): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [StyleSheetList](https://developer.mozilla.org/en/docs/Web/API/StyleSheetList) to Kotlin\r\n */\r\npublic external abstract class StyleSheetList : ItemArrayLike<StyleSheet> {\r\n   override val length: Int\r\n   override fun item(index: Int): StyleSheet?\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun StyleSheetList.get(index: Int): StyleSheet? = asDynamic()[index]\r\n\r\n/**\r\n * Exposes the JavaScript [LinkStyle](https://developer.mozilla.org/en/docs/Web/API/LinkStyle) to Kotlin\r\n */\r\npublic external interface LinkStyle {\r\n   val sheet: StyleSheet?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CSSRuleList](https://developer.mozilla.org/en/docs/Web/API/CSSRuleList) to Kotlin\r\n */\r\npublic external abstract class CSSRuleList : ItemArrayLike<CSSRule> {\r\n   override val length: Int\r\n   override fun item(index: Int): CSSRule?\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun CSSRuleList.get(index: Int): CSSRule? = asDynamic()[index]\r\n\r\n/**\r\n * Exposes the JavaScript [CSSRule](https://developer.mozilla.org/en/docs/Web/API/CSSRule) to Kotlin\r\n */\r\npublic external abstract class CSSRule {\r\n   open val type: Short\r\n   open var cssText: String\r\n   open val parentRule: CSSRule?\r\n   open val parentStyleSheet: CSSStyleSheet?\r\n\r\n   companion object {\r\n   val STYLE_RULE: Short\r\n   val CHARSET_RULE: Short\r\n   val IMPORT_RULE: Short\r\n   val MEDIA_RULE: Short\r\n   val FONT_FACE_RULE: Short\r\n   val PAGE_RULE: Short\r\n   val MARGIN_RULE: Short\r\n   val NAMESPACE_RULE: Short\r\n   }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CSSStyleRule](https://developer.mozilla.org/en/docs/Web/API/CSSStyleRule) to Kotlin\r\n */\r\npublic external abstract class CSSStyleRule : CSSRule {\r\n   open var selectorText: String\r\n   open val style: CSSStyleDeclaration\r\n}\r\n\r\npublic external abstract class CSSImportRule : CSSRule {\r\n   open val href: String\r\n   open val media: MediaList\r\n   open val styleSheet: CSSStyleSheet\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CSSGroupingRule](https://developer.mozilla.org/en/docs/Web/API/CSSGroupingRule) to Kotlin\r\n */\r\npublic external abstract class CSSGroupingRule : CSSRule {\r\n   open val cssRules: CSSRuleList\r\n   fun insertRule(rule: String, index: Int): Int\r\n   fun deleteRule(index: Int): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CSSMediaRule](https://developer.mozilla.org/en/docs/Web/API/CSSMediaRule) to Kotlin\r\n */\r\npublic external abstract class CSSMediaRule : CSSGroupingRule {\r\n   open val media: MediaList\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CSSPageRule](https://developer.mozilla.org/en/docs/Web/API/CSSPageRule) to Kotlin\r\n */\r\npublic external abstract class CSSPageRule : CSSGroupingRule {\r\n   open var selectorText: String\r\n   open val style: CSSStyleDeclaration\r\n}\r\n\r\npublic external abstract class CSSMarginRule : CSSRule {\r\n   open val name: String\r\n   open val style: CSSStyleDeclaration\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CSSNamespaceRule](https://developer.mozilla.org/en/docs/Web/API/CSSNamespaceRule) to Kotlin\r\n */\r\npublic external abstract class CSSNamespaceRule : CSSRule {\r\n   open val namespaceURI: String\r\n   open val prefix: String\r\n}\r\n\r\npublic external interface ElementCSSInlineStyle {\r\n   val style: CSSStyleDeclaration\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CSS](https://developer.mozilla.org/en/docs/Web/API/CSS) to Kotlin\r\n */\r\npublic external abstract class CSS {\r\n\r\n   companion object {\r\n   fun escape(ident: String): String\r\n   }\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\r\n// See libraries/tools/idl2k for details\r\n\r\n@file:Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\r\npackage org.w3c.dom.events\r\n\r\nimport kotlin.js.*\r\nimport org.khronos.webgl.*\r\nimport org.w3c.css.masking.*\r\nimport org.w3c.dom.*\r\nimport org.w3c.dom.clipboard.*\r\nimport org.w3c.dom.css.*\r\nimport org.w3c.dom.mediacapture.*\r\nimport org.w3c.dom.parsing.*\r\nimport org.w3c.dom.pointerevents.*\r\nimport org.w3c.dom.svg.*\r\nimport org.w3c.dom.url.*\r\nimport org.w3c.fetch.*\r\nimport org.w3c.files.*\r\nimport org.w3c.notifications.*\r\nimport org.w3c.performance.*\r\nimport org.w3c.workers.*\r\nimport org.w3c.xhr.*\r\n\r\n/**\r\n * Exposes the JavaScript

[UIEvent](https://developer.mozilla.org/en/docs/Web/API/UIEvent) to Kotlin\r\n */\r\npublic external open class UIEvent(type: String, eventInitDict: UIEventInit = definedExternally) : Event {\r\n open val view: Window?\r\n open val detail: Int\r\n}\r\n\r\npublic external interface UIEventInit : EventInit {\r\n var view: Window? /* = null */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var detail: Int? /* = 0 */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UIEventInit(view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): UIEventInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"view\"] = view\r\n o[\"detail\"] = detail\r\n o[\"bubbles\"] = bubbles\r\n o[\"cancelable\"] = cancelable\r\n o[\"composed\"] = composed\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [FocusEvent](https://developer.mozilla.org/en/docs/Web/API/FocusEvent) to Kotlin\r\n */\r\npublic external open class FocusEvent(type: String, eventInitDict: FocusEventInit = definedExternally) : UIEvent {\r\n open val relatedTarget: EventTarget?\r\n}\r\n\r\npublic external interface FocusEventInit : UIEventInit {\r\n var relatedTarget: EventTarget? /* = null */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun FocusEventInit(relatedTarget: EventTarget? = null, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): FocusEventInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"relatedTarget\"] = relatedTarget\r\n o[\"view\"] = view\r\n o[\"detail\"] = detail\r\n o[\"bubbles\"] = bubbles\r\n o[\"cancelable\"] = cancelable\r\n o[\"composed\"] = composed\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [MouseEvent](https://developer.mozilla.org/en/docs/Web/API/MouseEvent) to Kotlin\r\n */\r\npublic external open class MouseEvent(type: String, eventInitDict: MouseEventInit = definedExternally) : UIEvent, UnionElementOrMouseEvent {\r\n open val region: String?\r\n open val screenX: Int\r\n open val screenY: Int\r\n open val pageX: Double\r\n open val pageY: Double\r\n open val clientX: Int\r\n open val clientY: Int\r\n open val offsetX: Double\r\n open val offsetY: Double\r\n open val ctrlKey: Boolean\r\n open val shiftKey: Boolean\r\n open val altKey: Boolean\r\n open val metaKey: Boolean\r\n open val button: Short\r\n open val buttons: Short\r\n open val relatedTarget: EventTarget?\r\n fun getModifierState(keyArg: String): Boolean\r\n}\r\n\r\npublic external interface MouseEventInit : EventModifierInit {\r\n var screenX: Int? /* = 0 */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var screenY: Int? /* = 0 */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var clientX: Int? /* = 0 */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var clientY: Int? /* = 0 */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var button: Short? /* = 0 */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var buttons: Short? /* = 0 */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var relatedTarget: EventTarget? /* = null */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun MouseEventInit(screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget: EventTarget? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): MouseEventInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"screenX\"] = screenX\r\n o[\"screenY\"] = screenY\r\n o[\"clientX\"] = clientX\r\n o[\"clientY\"] = clientY\r\n o[\"button\"] = button\r\n o[\"buttons\"] = buttons\r\n o[\"relatedTarget\"] = relatedTarget\r\n o[\"ctrlKey\"] = ctrlKey\r\n o[\"shiftKey\"] = shiftKey\r\n o[\"altKey\"] = altKey\r\n o[\"metaKey\"] = metaKey\r\n o[\"modifierAltGraph\"] = modifierAltGraph\r\n o[\"modifierCapsLock\"] = modifierCapsLock\r\n o[\"modifierFn\"] = modifierFn\r\n o[\"modifierFnLock\"] = modifierFnLock\r\n o[\"modifierHyper\"] = modifierHyper\r\n o[\"modifierNumLock\"] = modifierNumLock\r\n o[\"modifierScrollLock\"] = modifierScrollLock\r\n o[\"modifierSuper\"] = modifierSuper\r\n o[\"modifierSymbol\"] = modifierSymbol\r\n o[\"modifierSymbolLock\"] = modifierSymbolLock\r\n o[\"view\"]

= view\r\n o[\"detail\"] = detail\r\n o[\"bubbles\"] = bubbles\r\n o[\"cancelable\"] = cancelable\r\n o[\"composed\"] = composed\r\n\r\n return o\r\n}\r\n\r\npublic external interface EventModifierInit : UIEventInit {\r\n var ctrlKey: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var shiftKey: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var altKey: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var metaKey: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var modifierAltGraph: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var modifierCapsLock: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var modifierFn: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var modifierFnLock: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var modifierHyper: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var modifierNumLock: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var modifierScrollLock: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var modifierSuper: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var modifierSymbol: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var modifierSymbolLock: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun EventModifierInit(ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): EventModifierInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"ctrlKey\"] = ctrlKey\r\n o[\"shiftKey\"] = shiftKey\r\n o[\"altKey\"] = altKey\r\n o[\"metaKey\"] = metaKey\r\n o[\"modifierAltGraph\"] = modifierAltGraph\r\n o[\"modifierCapsLock\"] = modifierCapsLock\r\n o[\"modifierFn\"] = modifierFn\r\n o[\"modifierFnLock\"] = modifierFnLock\r\n o[\"modifierHyper\"] = modifierHyper\r\n o[\"modifierNumLock\"] = modifierNumLock\r\n o[\"modifierScrollLock\"] = modifierScrollLock\r\n o[\"modifierSuper\"] = modifierSuper\r\n o[\"modifierSymbol\"] = modifierSymbol\r\n o[\"modifierSymbolLock\"] = modifierSymbolLock\r\n o[\"view\"] = view\r\n o[\"detail\"] = detail\r\n o[\"bubbles\"] = bubbles\r\n o[\"cancelable\"] = cancelable\r\n o[\"composed\"] = composed\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [WheelEvent](https://developer.mozilla.org/en/docs/Web/API/WheelEvent) to Kotlin\r\n */\r\npublic external open class WheelEvent(type: String, eventInitDict: WheelEventInit = definedExternally) : MouseEvent {\r\n open val deltaX: Double\r\n open val deltaY: Double\r\n open val deltaZ: Double\r\n open val deltaMode: Int\r\n\r\n companion object {\r\n val DOM_DELTA_PIXEL: Int\r\n val DOM_DELTA_LINE: Int\r\n val DOM_DELTA_PAGE: Int\r\n }\r\n}\r\n\r\npublic external interface WheelEventInit : MouseEventInit {\r\n var deltaX: Double? /* = 0.0 */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var deltaY: Double? /* = 0.0 */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var deltaZ: Double? /* = 0.0 */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var deltaMode: Int? /* = 0 */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun WheelEventInit(deltaX: Double? = 0.0, deltaY: Double? = 0.0, deltaZ: Double? = 0.0, deltaMode: Int? = 0, screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget: EventTarget? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false,

modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): WheelEventInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"deltaX\"] = deltaX\r\n o[\"deltaY\"] = deltaY\r\n o[\"deltaZ\"] = deltaZ\r\n o[\"deltaMode\"] = deltaMode\r\n o[\"screenX\"] = screenX\r\n o[\"screenY\"] = screenY\r\n o[\"clientX\"] = clientX\r\n o[\"clientY\"] = clientY\r\n o[\"button\"] = button\r\n o[\"buttons\"] = buttons\r\n o[\"relatedTarget\"] = relatedTarget\r\n o[\"ctrlKey\"] = ctrlKey\r\n o[\"shiftKey\"] = shiftKey\r\n o[\"altKey\"] = altKey\r\n o[\"metaKey\"] = metaKey\r\n o[\"modifierAltGraph\"] = modifierAltGraph\r\n o[\"modifierCapsLock\"] = modifierCapsLock\r\n o[\"modifierFn\"] = modifierFn\r\n o[\"modifierFnLock\"] = modifierFnLock\r\n o[\"modifierHyper\"] = modifierHyper\r\n o[\"modifierNumLock\"] = modifierNumLock\r\n o[\"modifierScrollLock\"] = modifierScrollLock\r\n o[\"modifierSuper\"] = modifierSuper\r\n o[\"modifierSymbol\"] = modifierSymbol\r\n o[\"modifierSymbolLock\"] = modifierSymbolLock\r\n o[\"view\"] = view\r\n o[\"detail\"] = detail\r\n o[\"bubbles\"] = bubbles\r\n o[\"cancelable\"] = cancelable\r\n o[\"composed\"] = composed\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [InputEvent](https://developer.mozilla.org/en/docs/Web/API/InputEvent) to Kotlin\r\n */\r\npublic external open class InputEvent(type: String, eventInitDict: InputEventInit = definedExternally) : UIEvent {\r\n open val data: String\r\n open val isComposing: Boolean\r\n}\r\n\r\npublic external interface InputEventInit : UIEventInit {\r\n var data: String? /* = \"\" */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var isComposing: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun InputEventInit(data: String? = \"\", isComposing: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): InputEventInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"data\"] = data\r\n o[\"isComposing\"] = isComposing\r\n o[\"view\"] = view\r\n o[\"detail\"] = detail\r\n o[\"bubbles\"] = bubbles\r\n o[\"cancelable\"] = cancelable\r\n o[\"composed\"] = composed\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [KeyboardEvent](https://developer.mozilla.org/en/docs/Web/API/KeyboardEvent) to Kotlin\r\n */\r\npublic external open class KeyboardEvent(type: String, eventInitDict: KeyboardEventInit = definedExternally) : UIEvent {\r\n open val key: String\r\n open val code: String\r\n open val location: Int\r\n open val ctrlKey: Boolean\r\n open val shiftKey: Boolean\r\n open val altKey: Boolean\r\n open val metaKey: Boolean\r\n open val repeat: Boolean\r\n open val isComposing: Boolean\r\n open val charCode: Int\r\n open val keyCode: Int\r\n open val which: Int\r\n fun getModifierState(keyArg: String): Boolean\r\n\r\n companion object {\r\n val DOM_KEY_LOCATION_STANDARD: Int\r\n val DOM_KEY_LOCATION_LEFT: Int\r\n val DOM_KEY_LOCATION_RIGHT: Int\r\n val DOM_KEY_LOCATION_NUMPAD: Int\r\n }\r\n}\r\n\r\npublic external interface KeyboardEventInit : EventModifierInit {\r\n var key: String? /* = \"\" */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var code: String? /* = \"\" */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var location: Int? /* = 0 */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var repeat: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var isComposing: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun KeyboardEventInit(key: String? = \"\", code: String? = \"\", location: Int? = 0, repeat: Boolean? = false, isComposing: Boolean? = false, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): KeyboardEventInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"key\"] = key\r\n o[\"code\"] = code\r\n o[\"location\"] = location\r\n o[\"repeat\"] = repeat\r\n o[\"isComposing\"] = isComposing\r\n o[\"ctrlKey\"] = ctrlKey\r\n o[\"shiftKey\"] = shiftKey\r\n o[\"altKey\"] = altKey\r\n o[\"metaKey\"] = metaKey\r\n o[\"modifierAltGraph\"] = modifierAltGraph\r\n o[\"modifierCapsLock\"] = modifierCapsLock\r\n o[\"modifierFn\"] = modifierFn\r\n o[\"modifierFnLock\"] =

modifierFnLock\r\n o[\"modifierHyper\"] = modifierHyper\r\n o[\"modifierNumLock\"] = modifierNumLock\r\n o[\"modifierScrollLock\"] = modifierScrollLock\r\n o[\"modifierSuper\"] = modifierSuper\r\n o[\"modifierSymbol\"] = modifierSymbol\r\n o[\"modifierSymbolLock\"] = modifierSymbolLock\r\n o[\"view\"] = view\r\n o[\"detail\"] = detail\r\n o[\"bubbles\"] = bubbles\r\n o[\"cancelable\"] = cancelable\r\n o[\"composed\"] = composed\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CompositionEvent](https://developer.mozilla.org/en/docs/Web/API/CompositionEvent) to Kotlin\r\n */\r\npublic external open class CompositionEvent(type: String, eventInitDict: CompositionEventInit = definedExternally) : UIEvent {\r\n open val data: String\r\n}\r\n\r\npublic external interface CompositionEventInit : UIEventInit {\r\n var data: String? /* = \"\" */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun CompositionEventInit(data: String? = \"\", view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): CompositionEventInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"data\"] = data\r\n o[\"view\"] = view\r\n o[\"detail\"] = detail\r\n o[\"bubbles\"] = bubbles\r\n o[\"cancelable\"] = cancelable\r\n o[\"composed\"] = composed\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Event](https://developer.mozilla.org/en/docs/Web/API/Event) to Kotlin\r\n */\r\npublic external open class Event(type: String, eventInitDict: EventInit = definedExternally) {\r\n open val type: String\r\n open val target: EventTarget?\r\n open val currentTarget: EventTarget?\r\n open val eventPhase: Short\r\n open val bubbles: Boolean\r\n open val cancelable: Boolean\r\n open val defaultPrevented: Boolean\r\n open val composed: Boolean\r\n open val isTrusted: Boolean\r\n open val timeStamp: Number\r\n fun composedPath(): Array<EventTarget>\r\n fun stopPropagation(): Unit\r\n fun stopImmediatePropagation(): Unit\r\n fun preventDefault(): Unit\r\n fun initEvent(type: String, bubbles: Boolean, cancelable: Boolean): Unit\r\n\r\n companion object {\r\n val NONE: Short\r\n val CAPTURING_PHASE: Short\r\n val AT_TARGET: Short\r\n val BUBBLING_PHASE: Short\r\n }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [EventTarget](https://developer.mozilla.org/en/docs/Web/API/EventTarget) to Kotlin\r\n */\r\npublic external abstract class EventTarget {\r\n fun addEventListener(type: String, callback: EventListener?, options: dynamic = definedExternally): Unit\r\n fun addEventListener(type: String, callback: ((Event) -> Unit)?, options: dynamic = definedExternally): Unit\r\n fun removeEventListener(type: String, callback: EventListener?, options: dynamic = definedExternally): Unit\r\n fun removeEventListener(type: String, callback: ((Event) -> Unit)?, options: dynamic = definedExternally): Unit\r\n fun dispatchEvent(event: Event): Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [EventListener](https://developer.mozilla.org/en/docs/Web/API/EventListener) to Kotlin\r\n */\r\npublic external interface EventListener {\r\n fun handleEvent(event: Event): Unit\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\r\n// See libraries/tools/idl2k for details\r\n\r\n@file:Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\r\npackage org.w3c.dom\r\n\r\nimport kotlin.js.*\r\nimport org.khronos.webgl.*\r\nimport org.w3c.css.masking.*\r\nimport org.w3c.dom.clipboard.*\r\nimport org.w3c.dom.css.*\r\nimport org.w3c.dom.events.*\r\nimport org.w3c.dom.mediacapture.*\r\nimport org.w3c.dom.parsing.*\r\nimport org.w3c.dom.pointerevents.*\r\nimport org.w3c.dom.svg.*\r\nimport org.w3c.dom.url.*\r\nimport org.w3c.fetch.*\r\nimport org.w3c.files.*\r\nimport org.w3c.notifications.*\r\nimport org.w3c.performance.*\r\nimport org.w3c.workers.*\r\nimport org.w3c.xhr.*\r\n\r\n/**\r\n * Exposes the JavaScript [Navigator](https://developer.mozilla.org/en/docs/Web/API/Navigator) to Kotlin\r\n */\r\npublic external abstract class Navigator : NavigatorID, NavigatorLanguage, NavigatorOnLine, NavigatorContentUtils, NavigatorCookies, NavigatorPlugins, NavigatorConcurrentHardware {\r\n open val serviceWorker: ServiceWorkerContainer\r\n open val maxTouchPoints: Int\r\n open val mediaDevices: MediaDevices\r\n open val clipboard: Clipboard\r\n fun vibrate(pattern: dynamic): Boolean\r\n fun getUserMedia(constraints: MediaStreamConstraints, successCallback: (MediaStream) -> Unit, errorCallback: (dynamic) -> Unit): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Document](https://developer.mozilla.org/en/docs/Web/API/Document) to Kotlin\r\n */\r\npublic

external open class Document : Node, GlobalEventHandlers, DocumentAndElementEventHandlers, NonElementParentNode, DocumentOrShadowRoot, ParentNode, GeometryUtils {\r\n open val fullscreenEnabled: Boolean\r\n open val fullscreen: Boolean\r\n var onfullscreenchange: ((Event) -> dynamic)?\r\n var onfullscreenerror: ((Event) -> dynamic)?\r\n open val rootElement: SVGSVGElement?\r\n var title: String\r\n open val referrer: String\r\n var domain: String\r\n open val activeElement: Element?\r\n open val location: Location?\r\n var cookie: String\r\n open val lastModified: String\r\n open val readyState: DocumentReadyState\r\n var dir: String\r\n var body: HTMLElement?\r\n open val head: HTMLHeadElement?\r\n open val images: HTMLCollection\r\n open val embeds: HTMLCollection\r\n open val plugins: HTMLCollection\r\n open val links: HTMLCollection\r\n open val forms: HTMLCollection\r\n open val scripts: HTMLCollection\r\n open val currentScript: HTMLOrSVGScriptElement?\r\n open val defaultView: Window?\r\n var designMode: String\r\n var onreadystatechange: ((Event) -> dynamic)?\r\n var fgColor: String\r\n var linkColor: String\r\n var vlinkColor: String\r\n var alinkColor: String\r\n var bgColor: String\r\n open val anchors: HTMLCollection\r\n open val applets: HTMLCollection\r\n open val all: HTMLAllCollection\r\n open val implementation: DOMImplementation\r\n open val URL: String\r\n open val documentURI: String\r\n open val origin: String\r\n open val compatMode: String\r\n open val characterSet: String\r\n open val charset: String\r\n open val inputEncoding: String\r\n open val contentType: String\r\n open val doctype: DocumentType?\r\n open val documentElement: Element?\r\n open val scrollingElement: Element?\r\n open val styleSheets: StyleSheetList\r\n override var ongotpointercapture: ((PointerEvent) -> dynamic)?\r\n override var onlostpointercapture: ((PointerEvent) -> dynamic)?\r\n override var onpointerdown: ((PointerEvent) -> dynamic)?\r\n override var onpointermove: ((PointerEvent) -> dynamic)?\r\n override var onpointerup: ((PointerEvent) -> dynamic)?\r\n override var onpointercancel: ((PointerEvent) -> dynamic)?\r\n override var onpointerover: ((PointerEvent) -> dynamic)?\r\n override var onpointerout: ((PointerEvent) -> dynamic)?\r\n override var onpointerenter: ((PointerEvent) -> dynamic)?\r\n override var onpointerleave: ((PointerEvent) -> dynamic)?\r\n override var onabort: ((Event) -> dynamic)?\r\n override var onblur: ((FocusEvent) -> dynamic)?\r\n override var oncancel: ((Event) -> dynamic)?\r\n override var oncanplay: ((Event) -> dynamic)?\r\n override var oncanplaythrough: ((Event) -> dynamic)?\r\n override var onchange: ((Event) -> dynamic)?\r\n override var onclick: ((MouseEvent) -> dynamic)?\r\n override var onclose: ((Event) -> dynamic)?\r\n override var oncontextmenu: ((MouseEvent) -> dynamic)?\r\n override var oncuechange: ((Event) -> dynamic)?\r\n override var ondblclick: ((MouseEvent) -> dynamic)?\r\n override var ondrag: ((DragEvent) -> dynamic)?\r\n override var ondragend: ((DragEvent) -> dynamic)?\r\n override var ondragenter: ((DragEvent) -> dynamic)?\r\n override var ondragexit: ((DragEvent) -> dynamic)?\r\n override var ondragleave: ((DragEvent) -> dynamic)?\r\n override var ondragover: ((DragEvent) -> dynamic)?\r\n override var ondragstart: ((DragEvent) -> dynamic)?\r\n override var ondrop: ((DragEvent) -> dynamic)?\r\n override var ondurationchange: ((Event) -> dynamic)?\r\n override var onemptied: ((Event) -> dynamic)?\r\n override var onended: ((Event) -> dynamic)?\r\n override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\r\n override var onfocus: ((FocusEvent) -> dynamic)?\r\n override var oninput: ((InputEvent) -> dynamic)?\r\n override var oninvalid: ((Event) -> dynamic)?\r\n override var onkeydown: ((KeyboardEvent) -> dynamic)?\r\n override var onkeypress: ((KeyboardEvent) -> dynamic)?\r\n override var onkeyup: ((KeyboardEvent) -> dynamic)?\r\n override var onload: ((Event) -> dynamic)?\r\n override var onloadeddata: ((Event) -> dynamic)?\r\n override var onloadedmetadata: ((Event) -> dynamic)?\r\n override var onloadend: ((Event) -> dynamic)?\r\n override var onloadstart: ((ProgressEvent) -> dynamic)?\r\n override var onmousedown: ((MouseEvent) -> dynamic)?\r\n override var onmouseenter: ((MouseEvent) -> dynamic)?\r\n override var onmouseleave: ((MouseEvent) -> dynamic)?\r\n override var onmousemove: ((MouseEvent) -> dynamic)?\r\n override var onmouseout: ((MouseEvent) -> dynamic)?\r\n override var onmouseover: ((MouseEvent) -> dynamic)?\r\n override var onmouseup: ((MouseEvent) -> dynamic)?\r\n override var onwheel: ((WheelEvent) -> dynamic)?\r\n override var onpause: ((Event) -> dynamic)?\r\n override var onplay: ((Event) -> dynamic)?\r\n override var onplaying: ((Event) -> dynamic)?\r\n override var onprogress: ((ProgressEvent) -> dynamic)?\r\n override var onratechange: ((Event) -> dynamic)?\r\n override var onreset: ((Event) -> dynamic)?\r\n override

var onresize: ((Event) -> dynamic)?\r\n   override var onscroll: ((Event) -> dynamic)?\r\n   override var onseeked: ((Event) -> dynamic)?\r\n   override var onseeking: ((Event) -> dynamic)?\r\n   override var onselect: ((Event) -> dynamic)?\r\n   override var onshow: ((Event) -> dynamic)?\r\n   override var onstalled: ((Event) -> dynamic)?\r\n   override var onsubmit: ((Event) -> dynamic)?\r\n   override var onsuspend: ((Event) -> dynamic)?\r\n   override var ontimeupdate: ((Event) -> dynamic)?\r\n   override var ontoggle: ((Event) -> dynamic)?\r\n   override var onvolumechange: ((Event) -> dynamic)?\r\n   override var onwaiting: ((Event) -> dynamic)?\r\n   override var oncopy: ((ClipboardEvent) -> dynamic)?\r\n   override var oncut: ((ClipboardEvent) -> dynamic)?\r\n   override var onpaste: ((ClipboardEvent) -> dynamic)?\r\n   override val fullscreenElement: Element?\r\n   override val children: HTMLCollection\r\n   override val firstElementChild: Element?\r\n   override val lastElementChild: Element?\r\n   override val childElementCount: Int\r\n   fun exitFullscreen(): Promise<Unit>\r\n   fun getElementsByName(elementName: String): NodeList\r\n   fun open(type: String = definedExternally, replace: String = definedExternally): Document\r\n   fun open(url: String, name: String, features: String): Window\r\n   fun close(): Unit\r\n   fun write(vararg text: String): Unit\r\n   fun writeln(vararg text: String): Unit\r\n   fun hasFocus(): Boolean\r\n   fun execCommand(commandId: String, showUI: Boolean = definedExternally, value: String = definedExternally): Boolean\r\n   fun queryCommandEnabled(commandId: String): Boolean\r\n   fun queryCommandIndeterm(commandId: String): Boolean\r\n   fun queryCommandState(commandId: String): Boolean\r\n   fun queryCommandSupported(commandId: String): Boolean\r\n   fun queryCommandValue(commandId: String): String\r\n   fun clear(): Unit\r\n   fun captureEvents(): Unit\r\n   fun releaseEvents(): Unit\r\n   fun getElementsByTagName(qualifiedName: String): HTMLCollection\r\n   fun getElementsByTagNameNS(namespace: String?, localName: String): HTMLCollection\r\n   fun getElementsByClassName(classNames: String): HTMLCollection\r\n   fun createElement(localName: String, options: ElementCreationOptions = definedExternally): Element\r\n   fun createElementNS(namespace: String?, qualifiedName: String, options: ElementCreationOptions = definedExternally): Element\r\n   fun createDocumentFragment(): DocumentFragment\r\n   fun createTextNode(data: String): Text\r\n   fun createCDATASection(data: String): CDATASection\r\n   fun createComment(data: String): Comment\r\n   fun createProcessingInstruction(target: String, data: String): ProcessingInstruction\r\n   fun importNode(node: Node, deep: Boolean = definedExternally): Node\r\n   fun adoptNode(node: Node): Node\r\n   fun createAttribute(localName: String): Attr\r\n   fun createAttributeNS(namespace: String?, qualifiedName: String): Attr\r\n   fun createEvent(interface_: String): Event\r\n   fun createRange(): Range\r\n   fun createNodeIterator(root: Node, whatToShow: Int = definedExternally, filter: NodeFilter? = definedExternally): NodeIterator\r\n   fun createNodeIterator(root: Node, whatToShow: Int = definedExternally, filter: ((Node) -> Short)? = definedExternally): NodeIterator\r\n   fun createTreeWalker(root: Node, whatToShow: Int = definedExternally, filter: NodeFilter? = definedExternally): TreeWalker\r\n   fun createTreeWalker(root: Node, whatToShow: Int = definedExternally, filter: ((Node) -> Short)? = definedExternally): TreeWalker\r\n   fun elementFromPoint(x: Double, y: Double): Element?\r\n   fun elementsFromPoint(x: Double, y: Double): Array<Element>\r\n   fun caretPositionFromPoint(x: Double, y: Double): CaretPosition?\r\n   override fun getElementById(elementId: String): Element?\r\n   override fun prepend(vararg nodes: dynamic): Unit\r\n   override fun append(vararg nodes: dynamic): Unit\r\n   override fun querySelector(selectors: String): Element?\r\n   override fun querySelectorAll(selectors: String): NodeList\r\n   override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\r\n   override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\r\n   override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\r\n   override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun Document.get(name: String): dynamic = asDynamic()[name]\r\n\r\n/**\r\n * Exposes the JavaScript [Window](https://developer.mozilla.org/en/docs/Web/API/Window) to Kotlin\r\n */\r\npublic external abstract class Window : EventTarget, GlobalEventHandlers, WindowEventHandlers, WindowOrWorkerGlobalScope, WindowSessionStorage, WindowLocalStorage, GlobalPerformance,

UnionMessagePortOrWindow {\r\n override val performance: Performance\r\n open val window: Window\r\n open val self: Window\r\n open val document: Document\r\n open var name: String\r\n open val location: Location\r\n open val history: History\r\n open val customElements: CustomElementRegistry\r\n open val locationbar: BarProp\r\n open val menubar: BarProp\r\n open val personalbar: BarProp\r\n open val scrollbars: BarProp\r\n open val statusbar: BarProp\r\n open val toolbar: BarProp\r\n open var status: String\r\n open val closed: Boolean\r\n open val frames: Window\r\n open val length: Int\r\n open val top: Window\r\n open var opener: Any?\r\n open val parent: Window\r\n open val frameElement: Element?\r\n open val navigator: Navigator\r\n open val applicationCache: ApplicationCache\r\n open val external: External\r\n open val screen: Screen\r\n open val innerWidth: Int\r\n open val innerHeight: Int\r\n open val scrollX: Double\r\n open val pageXOffset: Double\r\n open val scrollY: Double\r\n open val pageYOffset: Double\r\n open val screenX: Int\r\n open val screenY: Int\r\n open val outerWidth: Int\r\n open val outerHeight: Int\r\n open val devicePixelRatio: Double\r\n fun close(): Unit\r\n fun stop(): Unit\r\n fun focus(): Unit\r\n fun blur(): Unit\r\n fun open(url: String = definedExternally, target: String = definedExternally, features: String = definedExternally): Window?\r\n fun alert(): Unit\r\n fun alert(message: String): Unit\r\n fun confirm(message: String = definedExternally): Boolean\r\n fun prompt(message: String = definedExternally, default: String = definedExternally): String?\r\n fun print(): Unit\r\n fun requestAnimationFrame(callback: (Double) -> Unit): Int\r\n fun cancelAnimationFrame(handle: Int): Unit\r\n fun postMessage(message: Any?, targetOrigin: String, transfer: Array<dynamic> = definedExternally): Unit\r\n fun captureEvents(): Unit\r\n fun releaseEvents(): Unit\r\n fun matchMedia(query: String): MediaQueryList\r\n fun moveTo(x: Int, y: Int): Unit\r\n fun moveBy(x: Int, y: Int): Unit\r\n fun resizeTo(x: Int, y: Int): Unit\r\n fun resizeBy(x: Int, y: Int): Unit\r\n fun scroll(options: ScrollToOptions = definedExternally): Unit\r\n fun scroll(x: Double, y: Double): Unit\r\n fun scrollTo(options: ScrollToOptions = definedExternally): Unit\r\n fun scrollTo(x: Double, y: Double): Unit\r\n fun scrollBy(options: ScrollToOptions = definedExternally): Unit\r\n fun scrollBy(x: Double, y: Double): Unit\r\n fun getComputedStyle(elt: Element, pseudoElt: String? = definedExternally): CSSStyleDeclaration\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun Window.get(name: String): dynamic = asDynamic()[name]\r\n\r\npublic external abstract class HTMLAllCollection {\r\n open val length: Int\r\n// fun namedItem(name: String): UnionElementOrHTMLCollection?\r\n fun item(nameOrIndex: String = definedExternally): UnionElementOrHTMLCollection?\r\n}\r\n//@kotlin.internal.InlineOnly inline operator fun HTMLAllCollection.get(index: Int): Element? = asDynamic()[index]\r\n//@kotlin.internal.InlineOnly inline operator fun HTMLAllCollection.get(name: String): UnionElementOrHTMLCollection? = asDynamic()[name]\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLFormControlsCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLFormControlsCollection) to Kotlin\r\n */\r\npublic external abstract class HTMLFormControlsCollection : HTMLCollection {\r\n// override fun namedItem(name: String): UnionElementOrRadioNodeList?\r\n}\r\n//@kotlin.internal.InlineOnly override inline operator fun HTMLFormControlsCollection.get(name: String): UnionElementOrRadioNodeList? = asDynamic()[name]\r\n\r\n/**\r\n * Exposes the JavaScript [RadioNodeList](https://developer.mozilla.org/en/docs/Web/API/RadioNodeList) to Kotlin\r\n */\r\npublic external abstract class RadioNodeList : NodeList, UnionElementOrRadioNodeList {\r\n open var value: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLOptionsCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLOptionsCollection) to Kotlin\r\n */\r\npublic external abstract class HTMLOptionsCollection : HTMLCollection {\r\n override var length: Int\r\n open var selectedIndex: Int\r\n fun add(element: UnionHTMLOptGroupElementOrHTMLOptionElement, before: dynamic = definedExternally): Unit\r\n fun remove(index: Int): Unit\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun HTMLOptionsCollection.set(index: Int, option: HTMLOptionElement?): Unit { asDynamic()[index] = option; }\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLElement](https://developer.mozilla.org/en/docs/Web/API/HTMLElement) to Kotlin\r\n */\r\npublic external abstract class HTMLElement : Element, ElementCSSInlineStyle, GlobalEventHandlers, DocumentAndElementEventHandlers, ElementContentEditable {\r\n open var title: String\r\n open var lang:

String\r\n   open var translate: Boolean\r\n   open var dir: String\r\n   open val dataset: DOMStringMap\r\n   open var hidden: Boolean\r\n   open var tabIndex: Int\r\n   open var accessKey: String\r\n   open val accessKeyLabel: String\r\n   open var draggable: Boolean\r\n   open val dropzone: DOMTokenList\r\n   open var contextMenu: HTMLMenuElement?\r\n   open var spellcheck: Boolean\r\n   open var innerText: String\r\n   open val offsetParent: Element?\r\n   open val offsetTop: Int\r\n   open val offsetLeft: Int\r\n   open val offsetWidth: Int\r\n   open val offsetHeight: Int\r\n   fun click(): Unit\r\n   fun focus(): Unit\r\n   fun blur(): Unit\r\n   fun forceSpellCheck(): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLUnknownElement](https://developer.mozilla.org/en/docs/Web/API/HTMLUnknownElement) to Kotlin\r\n */\r\npublic external abstract class HTMLUnknownElement : HTMLElement {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [DOMStringMap](https://developer.mozilla.org/en/docs/Web/API/DOMStringMap) to Kotlin\r\n */\r\npublic external abstract class DOMStringMap {\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun DOMStringMap.get(name: String): String? = asDynamic()[name]\r\n@kotlin.internal.InlineOnly inline operator fun DOMStringMap.set(name: String, value: String): Unit { asDynamic()[name] = value; }\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLHtmlElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHtmlElement) to Kotlin\r\n */\r\npublic external abstract class HTMLHtmlElement : HTMLElement {\r\n   open var version: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLHeadElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadElement) to Kotlin\r\n */\r\npublic external abstract class HTMLHeadElement : HTMLElement {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLTitleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTitleElement) to Kotlin\r\n */\r\npublic external abstract class HTMLTitleElement : HTMLElement {\r\n   open var text: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLBaseElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBaseElement) to Kotlin\r\n */\r\npublic external abstract class HTMLBaseElement : HTMLElement {\r\n   open var href: String\r\n   open var target: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLLinkElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLinkElement) to Kotlin\r\n */\r\npublic external abstract class HTMLLinkElement : HTMLElement, LinkStyle {\r\n   open var scope: String\r\n   open var workerType: WorkerType\r\n   open var href: String\r\n   open var crossOrigin: String?\r\n   open var rel: String\r\n   @JsName(\"as\") open var as_: RequestDestination\r\n   open val relList: DOMTokenList\r\n   open var media: String\r\n   open var nonce: String\r\n   open var hreflang: String\r\n   open var type: String\r\n   open val sizes: DOMTokenList\r\n   open var referrerPolicy: String\r\n   open var charset: String\r\n   open var rev: String\r\n   open var target: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLMetaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMetaElement) to Kotlin\r\n */\r\npublic external abstract class HTMLMetaElement : HTMLElement {\r\n   open var name: String\r\n   open var httpEquiv: String\r\n   open var content: String\r\n   open var scheme: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLStyleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLStyleElement) to Kotlin\r\n */\r\npublic external abstract class HTMLStyleElement : HTMLElement, LinkStyle {\r\n   open var media: String\r\n   open var nonce: String\r\n   open var type: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLBodyElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBodyElement) to Kotlin\r\n */\r\npublic external abstract class HTMLBodyElement : HTMLElement, WindowEventHandlers {\r\n   open var text: String\r\n   open var link: String\r\n   open var vLink: String\r\n   open var aLink: String\r\n   open var bgColor: String\r\n   open var background: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLHeadingElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadingElement) to Kotlin\r\n */\r\npublic external abstract class HTMLHeadingElement : HTMLElement {\r\n   open var align: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLParagraphElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParagraphElement) to Kotlin\r\n */\r\npublic external abstract class HTMLParagraphElement : HTMLElement {\r\n   open var align: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLHRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHRElement) to Kotlin\r\n */\r\npublic

external abstract class HTMLHRElement : HTMLElement {\r\n   open var align: String\r\n   open var color: String\r\n   open var noShade: Boolean\r\n   open var size: String\r\n   open var width: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLPreElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPreElement) to Kotlin\r\n */\r\npublic external abstract class HTMLPreElement : HTMLElement {\r\n   open var width: Int\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLQuoteElement](https://developer.mozilla.org/en/docs/Web/API/HTMLQuoteElement) to Kotlin\r\n */\r\npublic external abstract class HTMLQuoteElement : HTMLElement {\r\n   open var cite: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLOListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOListElement) to Kotlin\r\n */\r\npublic external abstract class HTMLOListElement : HTMLElement {\r\n   open var reversed: Boolean\r\n   open var start: Int\r\n   open var type: String\r\n   open var compact: Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLUListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLUListElement) to Kotlin\r\n */\r\npublic external abstract class HTMLUListElement : HTMLElement {\r\n   open var compact: Boolean\r\n   open var type: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLLIElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLIElement) to Kotlin\r\n */\r\npublic external abstract class HTMLLIElement : HTMLElement {\r\n   open var value: Int\r\n   open var type: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLDListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDListElement) to Kotlin\r\n */\r\npublic external abstract class HTMLDListElement : HTMLElement {\r\n   open var compact: Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLDivElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDivElement) to Kotlin\r\n */\r\npublic external abstract class HTMLDivElement : HTMLElement {\r\n   open var align: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLAnchorElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAnchorElement) to Kotlin\r\n */\r\npublic external abstract class HTMLAnchorElement : HTMLElement, HTMLHyperlinkElementUtils {\r\n   open var target: String\r\n   open var download: String\r\n   open var ping: String\r\n   open var rel: String\r\n   open val relList: DOMTokenList\r\n   open var hreflang: String\r\n   open var type: String\r\n   open var text: String\r\n   open var referrerPolicy: String\r\n   open var coords: String\r\n   open var charset: String\r\n   open var name: String\r\n   open var rev: String\r\n   open var shape: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLDataElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataElement) to Kotlin\r\n */\r\npublic external abstract class HTMLDataElement : HTMLElement {\r\n   open var value: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLTimeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTimeElement) to Kotlin\r\n */\r\npublic external abstract class HTMLTimeElement : HTMLElement {\r\n   open var dateTime: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLSpanElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSpanElement) to Kotlin\r\n */\r\npublic external abstract class HTMLSpanElement : HTMLElement {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLBRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBRElement) to Kotlin\r\n */\r\npublic external abstract class HTMLBRElement : HTMLElement {\r\n   open var clear: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLHyperlinkElementUtils](https://developer.mozilla.org/en/docs/Web/API/HTMLHyperlinkElementUtils) to Kotlin\r\n */\r\npublic external interface HTMLHyperlinkElementUtils {\r\n   var href: String\r\n   val origin: String\r\n   var protocol: String\r\n   var username: String\r\n   var password: String\r\n   var host: String\r\n   var hostname: String\r\n   var port: String\r\n   var pathname: String\r\n   var search: String\r\n   var hash: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLModElement](https://developer.mozilla.org/en/docs/Web/API/HTMLModElement) to Kotlin\r\n */\r\npublic external abstract class HTMLModElement : HTMLElement {\r\n   open var cite: String\r\n   open var dateTime: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript

[HTMLPictureElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPictureElement) to Kotlin\r\n */\r\npublic external abstract class HTMLPictureElement : HTMLElement {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLSourceElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSourceElement) to Kotlin\r\n */\r\npublic external abstract class HTMLSourceElement : HTMLElement {\r\n open var src: String\r\n open var type: String\r\n open var srcset: String\r\n open var sizes: String\r\n open var media: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLImageElement](https://developer.mozilla.org/en/docs/Web/API/HTMLImageElement) to Kotlin\r\n */\r\npublic external abstract class HTMLImageElement : HTMLElement, TexImageSource, HTMLOrSVGImageElement {\r\n open var alt: String\r\n open var src: String\r\n open var srcset: String\r\n open var sizes: String\r\n open var crossOrigin: String?\r\n open var useMap: String\r\n open var isMap: Boolean\r\n open var width: Int\r\n open var height: Int\r\n open val naturalWidth: Int\r\n open val naturalHeight: Int\r\n open val complete: Boolean\r\n open val currentSrc: String\r\n open var referrerPolicy: String\r\n open var name: String\r\n open var lowsrc: String\r\n open var align: String\r\n open var hspace: Int\r\n open var vspace: Int\r\n open var longDesc: String\r\n open var border: String\r\n open val x: Int\r\n open val y: Int\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Image](https://developer.mozilla.org/en/docs/Web/API/Image) to Kotlin\r\n */\r\npublic external open class Image(width: Int = definedExternally, height: Int = definedExternally) : HTMLImageElement {\r\n override val children: HTMLCollection\r\n override val firstElementChild: Element?\r\n override val lastElementChild: Element?\r\n override val childElementCount: Int\r\n override val previousElementSibling: Element?\r\n override val nextElementSibling: Element?\r\n override val assignedSlot: HTMLSlotElement?\r\n override val style: CSSStyleDeclaration\r\n override var ongotpointercapture: ((PointerEvent) -> dynamic)?\r\n override var onlostpointercapture: ((PointerEvent) -> dynamic)?\r\n override var onpointerdown: ((PointerEvent) -> dynamic)?\r\n override var onpointermove: ((PointerEvent) -> dynamic)?\r\n override var onpointerup: ((PointerEvent) -> dynamic)?\r\n override var onpointercancel: ((PointerEvent) -> dynamic)?\r\n override var onpointerover: ((PointerEvent) -> dynamic)?\r\n override var onpointerout: ((PointerEvent) -> dynamic)?\r\n override var onpointerenter: ((PointerEvent) -> dynamic)?\r\n override var onpointerleave: ((PointerEvent) -> dynamic)?\r\n override var onabort: ((Event) -> dynamic)?\r\n override var onblur: ((FocusEvent) -> dynamic)?\r\n override var oncancel: ((Event) -> dynamic)?\r\n override var oncanplay: ((Event) -> dynamic)?\r\n override var oncanplaythrough: ((Event) -> dynamic)?\r\n override var onchange: ((Event) -> dynamic)?\r\n override var onclick: ((MouseEvent) -> dynamic)?\r\n override var onclose: ((Event) -> dynamic)?\r\n override var oncontextmenu: ((MouseEvent) -> dynamic)?\r\n override var oncuechange: ((Event) -> dynamic)?\r\n override var ondblclick: ((MouseEvent) -> dynamic)?\r\n override var ondrag: ((DragEvent) -> dynamic)?\r\n override var ondragend: ((DragEvent) -> dynamic)?\r\n override var ondragenter: ((DragEvent) -> dynamic)?\r\n override var ondragexit: ((DragEvent) -> dynamic)?\r\n override var ondragleave: ((DragEvent) -> dynamic)?\r\n override var ondragover: ((DragEvent) -> dynamic)?\r\n override var ondragstart: ((DragEvent) -> dynamic)?\r\n override var ondrop: ((DragEvent) -> dynamic)?\r\n override var ondurationchange: ((Event) -> dynamic)?\r\n override var onemptied: ((Event) -> dynamic)?\r\n override var onended: ((Event) -> dynamic)?\r\n override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\r\n override var onfocus: ((FocusEvent) -> dynamic)?\r\n override var oninput: ((InputEvent) -> dynamic)?\r\n override var oninvalid: ((Event) -> dynamic)?\r\n override var onkeydown: ((KeyboardEvent) -> dynamic)?\r\n override var onkeypress: ((KeyboardEvent) -> dynamic)?\r\n override var onkeyup: ((KeyboardEvent) -> dynamic)?\r\n override var onload: ((Event) -> dynamic)?\r\n override var onloadeddata: ((Event) -> dynamic)?\r\n override var onloadedmetadata: ((Event) -> dynamic)?\r\n override var onloadend: ((Event) -> dynamic)?\r\n override var onloadstart: ((ProgressEvent) -> dynamic)?\r\n override var onmousedown: ((MouseEvent) -> dynamic)?\r\n override var onmouseenter: ((MouseEvent) -> dynamic)?\r\n override var onmouseleave: ((MouseEvent) -> dynamic)?\r\n override var onmousemove: ((MouseEvent) -> dynamic)?\r\n override var onmouseout: ((MouseEvent) -> dynamic)?\r\n override var onmouseover: ((MouseEvent) -> dynamic)?\r\n override var onmouseup: ((MouseEvent) -> dynamic)?\r\n override var onwheel: ((WheelEvent) -> dynamic)?\r\n override

var onpause: ((Event) -> dynamic)?\r\n   override var onplay: ((Event) -> dynamic)?\r\n   override var onplaying: ((Event) -> dynamic)?\r\n   override var onprogress: ((ProgressEvent) -> dynamic)?\r\n   override var onratechange: ((Event) -> dynamic)?\r\n   override var onreset: ((Event) -> dynamic)?\r\n   override var onresize: ((Event) -> dynamic)?\r\n   override var onscroll: ((Event) -> dynamic)?\r\n   override var onseeked: ((Event) -> dynamic)?\r\n   override var onseeking: ((Event) -> dynamic)?\r\n   override var onselect: ((Event) -> dynamic)?\r\n   override var onshow: ((Event) -> dynamic)?\r\n   override var onstalled: ((Event) -> dynamic)?\r\n   override var onsubmit: ((Event) -> dynamic)?\r\n   override var onsuspend: ((Event) -> dynamic)?\r\n   override var ontimeupdate: ((Event) -> dynamic)?\r\n   override var ontoggle: ((Event) -> dynamic)?\r\n   override var onvolumechange: ((Event) -> dynamic)?\r\n   override var onwaiting: ((Event) -> dynamic)?\r\n   override var oncopy: ((ClipboardEvent) -> dynamic)?\r\n   override var oncut: ((ClipboardEvent) -> dynamic)?\r\n   override var onpaste: ((ClipboardEvent) -> dynamic)?\r\n   override var contentEditable: String\r\n   override val isContentEditable: Boolean\r\n   override fun prepend(vararg nodes: dynamic): Unit\r\n   override fun append(vararg nodes: dynamic): Unit\r\n   override fun querySelector(selectors: String): Element?\r\n   override fun querySelectorAll(selectors: String): NodeList\r\n   override fun before(vararg nodes: dynamic): Unit\r\n   override fun after(vararg nodes: dynamic): Unit\r\n   override fun replaceWith(vararg nodes: dynamic): Unit\r\n   override fun remove(): Unit\r\n   override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\r\n   override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\r\n   override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\r\n   override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLIFrameElement](https://developer.mozilla.org/en/docs/Web/API/HTMLIFrameElement) to Kotlin\r\n */\r\npublic external abstract class HTMLIFrameElement : HTMLElement {\r\n   open var src: String\r\n   open var srcdoc: String\r\n   open var name: String\r\n   open val sandbox: DOMTokenList\r\n   open var allowFullscreen: Boolean\r\n   open var allowUserMedia: Boolean\r\n   open var width: String\r\n   open var height: String\r\n   open var referrerPolicy: String\r\n   open val contentDocument: Document?\r\n   open val contentWindow: Window?\r\n   open var align: String\r\n   open var scrolling: String\r\n   open var frameBorder: String\r\n   open var longDesc: String\r\n   open var marginHeight: String\r\n   open var marginWidth: String\r\n   fun getSVGDocument(): Document?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLEmbedElement](https://developer.mozilla.org/en/docs/Web/API/HTMLEmbedElement) to Kotlin\r\n */\r\npublic external abstract class HTMLEmbedElement : HTMLElement {\r\n   open var src: String\r\n   open var type: String\r\n   open var width: String\r\n   open var height: String\r\n   open var align: String\r\n   open var name: String\r\n   fun getSVGDocument(): Document?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLObjectElement](https://developer.mozilla.org/en/docs/Web/API/HTMLObjectElement) to Kotlin\r\n */\r\npublic external abstract class HTMLObjectElement : HTMLElement {\r\n   open var data: String\r\n   open var type: String\r\n   open var typeMustMatch: Boolean\r\n   open var name: String\r\n   open var useMap: String\r\n   open val form: HTMLFormElement?\r\n   open var width: String\r\n   open var height: String\r\n   open val contentDocument: Document?\r\n   open val contentWindow: Window?\r\n   open val willValidate: Boolean\r\n   open val validity: ValidityState\r\n   open val validationMessage: String\r\n   open var align: String\r\n   open var archive: String\r\n   open var code: String\r\n   open var declare: Boolean\r\n   open var hspace: Int\r\n   open var standby: String\r\n   open var vspace: Int\r\n   open var codeBase: String\r\n   open var codeType: String\r\n   open var border: String\r\n   fun getSVGDocument(): Document?\r\n   fun checkValidity(): Boolean\r\n   fun reportValidity(): Boolean\r\n   fun setCustomValidity(error: String): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLParamElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParamElement) to Kotlin\r\n */\r\npublic external abstract class HTMLParamElement : HTMLElement {\r\n   open var name: String\r\n   open var value: String\r\n   open var type: String\r\n   open var valueType: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLVideoElement](https://developer.mozilla.org/en/docs/Web/API/HTMLVideoElement) to

Kotlin\r\n */\r\npublic external abstract class HTMLVideoElement : HTMLMediaElement, TexImageSource {\r\n open var width: Int\r\n open var height: Int\r\n open val videoWidth: Int\r\n open val videoHeight: Int\r\n open var poster: String\r\n open var playsInline: Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLAudioElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAudioElement) to Kotlin\r\n */\r\npublic external abstract class HTMLAudioElement : HTMLMediaElement {\r\n}\r\n\r\npublic external open class Audio(src: String = definedExternally) : HTMLAudioElement {\r\n override val children: HTMLCollection\r\n override val firstElementChild: Element?\r\n override val lastElementChild: Element?\r\n override val childElementCount: Int\r\n override val previousElementSibling: Element?\r\n override val nextElementSibling: Element?\r\n override val assignedSlot: HTMLSlotElement?\r\n override val style: CSSStyleDeclaration\r\n override var ongotpointercapture: ((PointerEvent) -> dynamic)?\r\n override var onlostpointercapture: ((PointerEvent) -> dynamic)?\r\n override var onpointerdown: ((PointerEvent) -> dynamic)?\r\n override var onpointermove: ((PointerEvent) -> dynamic)?\r\n override var onpointerup: ((PointerEvent) -> dynamic)?\r\n override var onpointercancel: ((PointerEvent) -> dynamic)?\r\n override var onpointerover: ((PointerEvent) -> dynamic)?\r\n override var onpointerout: ((PointerEvent) -> dynamic)?\r\n override var onpointerenter: ((PointerEvent) -> dynamic)?\r\n override var onpointerleave: ((PointerEvent) -> dynamic)?\r\n override var onabort: ((Event) -> dynamic)?\r\n override var onblur: ((FocusEvent) -> dynamic)?\r\n override var oncancel: ((Event) -> dynamic)?\r\n override var oncanplay: ((Event) -> dynamic)?\r\n override var oncanplaythrough: ((Event) -> dynamic)?\r\n override var onchange: ((Event) -> dynamic)?\r\n override var onclick: ((MouseEvent) -> dynamic)?\r\n override var onclose: ((Event) -> dynamic)?\r\n override var oncontextmenu: ((MouseEvent) -> dynamic)?\r\n override var oncuechange: ((Event) -> dynamic)?\r\n override var ondblclick: ((MouseEvent) -> dynamic)?\r\n override var ondrag: ((DragEvent) -> dynamic)?\r\n override var ondragend: ((DragEvent) -> dynamic)?\r\n override var ondragenter: ((DragEvent) -> dynamic)?\r\n override var ondragexit: ((DragEvent) -> dynamic)?\r\n override var ondragleave: ((DragEvent) -> dynamic)?\r\n override var ondragover: ((DragEvent) -> dynamic)?\r\n override var ondragstart: ((DragEvent) -> dynamic)?\r\n override var ondrop: ((DragEvent) -> dynamic)?\r\n override var ondurationchange: ((Event) -> dynamic)?\r\n override var onemptied: ((Event) -> dynamic)?\r\n override var onended: ((Event) -> dynamic)?\r\n override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\r\n override var onfocus: ((FocusEvent) -> dynamic)?\r\n override var oninput: ((InputEvent) -> dynamic)?\r\n override var oninvalid: ((Event) -> dynamic)?\r\n override var onkeydown: ((KeyboardEvent) -> dynamic)?\r\n override var onkeypress: ((KeyboardEvent) -> dynamic)?\r\n override var onkeyup: ((KeyboardEvent) -> dynamic)?\r\n override var onload: ((Event) -> dynamic)?\r\n override var onloadeddata: ((Event) -> dynamic)?\r\n override var onloadedmetadata: ((Event) -> dynamic)?\r\n override var onloadend: ((Event) -> dynamic)?\r\n override var onloadstart: ((ProgressEvent) -> dynamic)?\r\n override var onmousedown: ((MouseEvent) -> dynamic)?\r\n override var onmouseenter: ((MouseEvent) -> dynamic)?\r\n override var onmouseleave: ((MouseEvent) -> dynamic)?\r\n override var onmousemove: ((MouseEvent) -> dynamic)?\r\n override var onmouseout: ((MouseEvent) -> dynamic)?\r\n override var onmouseover: ((MouseEvent) -> dynamic)?\r\n override var onmouseup: ((MouseEvent) -> dynamic)?\r\n override var onwheel: ((WheelEvent) -> dynamic)?\r\n override var onpause: ((Event) -> dynamic)?\r\n override var onplay: ((Event) -> dynamic)?\r\n override var onplaying: ((Event) -> dynamic)?\r\n override var onprogress: ((ProgressEvent) -> dynamic)?\r\n override var onratechange: ((Event) -> dynamic)?\r\n override var onreset: ((Event) -> dynamic)?\r\n override var onresize: ((Event) -> dynamic)?\r\n override var onscroll: ((Event) -> dynamic)?\r\n override var onseeked: ((Event) -> dynamic)?\r\n override var onseeking: ((Event) -> dynamic)?\r\n override var onselect: ((Event) -> dynamic)?\r\n override var onshow: ((Event) -> dynamic)?\r\n override var onstalled: ((Event) -> dynamic)?\r\n override var onsubmit: ((Event) -> dynamic)?\r\n override var onsuspend: ((Event) -> dynamic)?\r\n override var ontimeupdate: ((Event) -> dynamic)?\r\n override var ontoggle: ((Event) -> dynamic)?\r\n override var onvolumechange: ((Event) -> dynamic)?\r\n override var onwaiting: ((Event) -> dynamic)?\r\n override var oncopy: ((ClipboardEvent) -> dynamic)?\r\n override var oncut: ((ClipboardEvent) -> dynamic)?\r\n override var onpaste: ((ClipboardEvent) -> dynamic)?\r\n override var contentEditable: String\r\n override val

isContentEditable: Boolean\r\n   override fun prepend(vararg nodes: dynamic): Unit\r\n   override fun append(vararg nodes: dynamic): Unit\r\n   override fun querySelector(selectors: String): Element?\r\n   override fun querySelectorAll(selectors: String): NodeList\r\n   override fun before(vararg nodes: dynamic): Unit\r\n   override fun after(vararg nodes: dynamic): Unit\r\n   override fun replaceWith(vararg nodes: dynamic): Unit\r\n   override fun remove(): Unit\r\n   override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\r\n   override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\r\n   override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\r\n   override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLTrackElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTrackElement) to Kotlin\r\n */\r\npublic external abstract class HTMLTrackElement : HTMLElement {\r\n   open var kind: String\r\n   open var src: String\r\n   open var srclang: String\r\n   open var label: String\r\n   open var default: Boolean\r\n   open val readyState: Short\r\n   open val track: TextTrack\r\n\r\n   companion object {\r\n   val NONE: Short\r\n   val LOADING: Short\r\n   val LOADED: Short\r\n   val ERROR: Short\r\n   }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLMediaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMediaElement) to Kotlin\r\n */\r\npublic external abstract class HTMLMediaElement : HTMLElement {\r\n   open val error: MediaError?\r\n   open var src: String\r\n   open var srcObject: dynamic\r\n   open val currentSrc: String\r\n   open var crossOrigin: String?\r\n   open val networkState: Short\r\n   open var preload: String\r\n   open val buffered: TimeRanges\r\n   open val readyState: Short\r\n   open val seeking: Boolean\r\n   open var currentTime: Double\r\n   open val duration: Double\r\n   open val paused: Boolean\r\n   open var defaultPlaybackRate: Double\r\n   open var playbackRate: Double\r\n   open val played: TimeRanges\r\n   open val seekable: TimeRanges\r\n   open val ended: Boolean\r\n   open var autoplay: Boolean\r\n   open var loop: Boolean\r\n   open var controls: Boolean\r\n   open var volume: Double\r\n   open var muted: Boolean\r\n   open var defaultMuted: Boolean\r\n   open val audioTracks: AudioTrackList\r\n   open val videoTracks: VideoTrackList\r\n   open val textTracks: TextTrackList\r\n   fun load(): Unit\r\n   fun canPlayType(type: String): CanPlayTypeResult\r\n   fun fastSeek(time: Double): Unit\r\n   fun getStartDate(): dynamic\r\n   fun play(): Promise<Unit>\r\n   fun pause(): Unit\r\n   fun addTextTrack(kind: TextTrackKind, label: String = definedExternally, language: String = definedExternally): TextTrack\r\n\r\n   companion object {\r\n   val NETWORK_EMPTY: Short\r\n   val NETWORK_IDLE: Short\r\n   val NETWORK_LOADING: Short\r\n   val NETWORK_NO_SOURCE: Short\r\n   val HAVE_NOTHING: Short\r\n   val HAVE_METADATA: Short\r\n   val HAVE_CURRENT_DATA: Short\r\n   val HAVE_FUTURE_DATA: Short\r\n   val HAVE_ENOUGH_DATA: Short\r\n   }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [MediaError](https://developer.mozilla.org/en/docs/Web/API/MediaError) to Kotlin\r\n */\r\npublic external abstract class MediaError {\r\n   open val code: Short\r\n\r\n   companion object {\r\n   val MEDIA_ERR_ABORTED: Short\r\n   val MEDIA_ERR_NETWORK: Short\r\n   val MEDIA_ERR_DECODE: Short\r\n   val MEDIA_ERR_SRC_NOT_SUPPORTED: Short\r\n   }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [AudioTrackList](https://developer.mozilla.org/en/docs/Web/API/AudioTrackList) to Kotlin\r\n */\r\npublic external abstract class AudioTrackList : EventTarget {\r\n   open val length: Int\r\n   open var onchange: ((Event) -> dynamic)?\r\n   open var onaddtrack: ((TrackEvent) -> dynamic)?\r\n   open var onremovetrack: ((TrackEvent) -> dynamic)?\r\n   fun getTrackById(id: String): AudioTrack?\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun AudioTrackList.get(index: Int): AudioTrack? = asDynamic()[index]\r\n\r\n/**\r\n * Exposes the JavaScript [AudioTrack](https://developer.mozilla.org/en/docs/Web/API/AudioTrack) to Kotlin\r\n */\r\npublic external abstract class AudioTrack : UnionAudioTrackOrTextTrackOrVideoTrack {\r\n   open val id: String\r\n   open val kind: String\r\n   open val label: String\r\n   open val language: String\r\n   open var enabled: Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [VideoTrackList](https://developer.mozilla.org/en/docs/Web/API/VideoTrackList) to Kotlin\r\n */\r\npublic

external abstract class VideoTrackList : EventTarget {\r\n   open val length: Int\r\n   open val selectedIndex: Int\r\n   open var onchange: ((Event) -> dynamic)?\r\n   open var onaddtrack: ((TrackEvent) -> dynamic)?\r\n   open var onremovetrack: ((TrackEvent) -> dynamic)?\r\n   fun getTrackById(id: String): VideoTrack?\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun VideoTrackList.get(index: Int): VideoTrack? = asDynamic()[index]\r\n\r\n/**\r\n * Exposes the JavaScript [VideoTrack](https://developer.mozilla.org/en/docs/Web/API/VideoTrack) to Kotlin\r\n */\r\npublic external abstract class VideoTrack : UnionAudioTrackOrTextTrackOrVideoTrack {\r\n   open val id: String\r\n   open val kind: String\r\n   open val label: String\r\n   open val language: String\r\n   open var selected: Boolean\r\n}\r\n\r\npublic external abstract class TextTrackList : EventTarget {\r\n   open val length: Int\r\n   open var onchange: ((Event) -> dynamic)?\r\n   open var onaddtrack: ((TrackEvent) -> dynamic)?\r\n   open var onremovetrack: ((TrackEvent) -> dynamic)?\r\n   fun getTrackById(id: String): TextTrack?\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun TextTrackList.get(index: Int): TextTrack? = asDynamic()[index]\r\n\r\n/**\r\n * Exposes the JavaScript [TextTrack](https://developer.mozilla.org/en/docs/Web/API/TextTrack) to Kotlin\r\n */\r\npublic external abstract class TextTrack : EventTarget, UnionAudioTrackOrTextTrackOrVideoTrack {\r\n   open val kind: TextTrackKind\r\n   open val label: String\r\n   open val language: String\r\n   open val id: String\r\n   open val inBandMetadataTrackDispatchType: String\r\n   open var mode: TextTrackMode\r\n   open val cues: TextTrackCueList?\r\n   open val activeCues: TextTrackCueList?\r\n   open var oncuechange: ((Event) -> dynamic)?\r\n   fun addCue(cue: TextTrackCue): Unit\r\n   fun removeCue(cue: TextTrackCue): Unit\r\n}\r\n\r\npublic external abstract class TextTrackCueList {\r\n   open val length: Int\r\n   fun getCueById(id: String): TextTrackCue?\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun TextTrackCueList.get(index: Int): TextTrackCue? = asDynamic()[index]\r\n\r\n/**\r\n * Exposes the JavaScript [TextTrackCue](https://developer.mozilla.org/en/docs/Web/API/TextTrackCue) to Kotlin\r\n */\r\npublic external abstract class TextTrackCue : EventTarget {\r\n   open val track: TextTrack?\r\n   open var id: String\r\n   open var startTime: Double\r\n   open var endTime: Double\r\n   open var pauseOnExit: Boolean\r\n   open var onenter: ((Event) -> dynamic)?\r\n   open var onexit: ((Event) -> dynamic)?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [TimeRanges](https://developer.mozilla.org/en/docs/Web/API/TimeRanges) to Kotlin\r\n */\r\npublic external abstract class TimeRanges {\r\n   open val length: Int\r\n   fun start(index: Int): Double\r\n   fun end(index: Int): Double\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [TrackEvent](https://developer.mozilla.org/en/docs/Web/API/TrackEvent) to Kotlin\r\n */\r\npublic external open class TrackEvent(type: String, eventInitDict: TrackEventInit = definedExternally) : Event {\r\n   open val track: UnionAudioTrackOrTextTrackOrVideoTrack?\r\n}\r\n\r\npublic external interface TrackEventInit : EventInit {\r\n   var track: UnionAudioTrackOrTextTrackOrVideoTrack? /* = null */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun TrackEventInit(track: UnionAudioTrackOrTextTrackOrVideoTrack? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): TrackEventInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"track\"] = track\r\n   o[\"bubbles\"] = bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLMapElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMapElement) to Kotlin\r\n */\r\npublic external abstract class HTMLMapElement : HTMLElement {\r\n   open var name: String\r\n   open val areas: HTMLCollection\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAreaElement) to Kotlin\r\n */\r\npublic external abstract class HTMLAreaElement : HTMLElement, HTMLHyperlinkElementUtils {\r\n   open var alt: String\r\n   open var coords: String\r\n   open var shape: String\r\n   open var target: String\r\n   open var download: String\r\n   open var ping: String\r\n   open var rel: String\r\n   open val relList: DOMTokenList\r\n   open var referrerPolicy: String\r\n   open var noHref: Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLTableElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableElement) to Kotlin\r\n */\r\npublic external abstract class HTMLTableElement : HTMLElement {\r\n   open var caption:

HTMLTableCaptionElement?\r\n   open var tHead: HTMLTableSectionElement?\r\n   open var tFoot: HTMLTableSectionElement?\r\n   open val tBodies: HTMLCollection\r\n   open val rows: HTMLCollection\r\n   open var align: String\r\n   open var border: String\r\n   open var frame: String\r\n   open var rules: String\r\n   open var summary: String\r\n   open var width: String\r\n   open var bgColor: String\r\n   open var cellPadding: String\r\n   open var cellSpacing: String\r\n   fun createCaption(): HTMLTableCaptionElement\r\n   fun deleteCaption(): Unit\r\n   fun createTHead(): HTMLTableSectionElement\r\n   fun deleteTHead(): Unit\r\n   fun createTFoot(): HTMLTableSectionElement\r\n   fun deleteTFoot(): Unit\r\n   fun createTBody(): HTMLTableSectionElement\r\n   fun insertRow(index: Int = definedExternally): HTMLTableRowElement\r\n   fun deleteRow(index: Int): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLTableCaptionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCaptionElement) to Kotlin\r\n */\r\npublic external abstract class HTMLTableCaptionElement : HTMLElement {\r\n   open var align: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLTableColElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableColElement) to Kotlin\r\n */\r\npublic external abstract class HTMLTableColElement : HTMLElement {\r\n   open var span: Int\r\n   open var align: String\r\n   open var ch: String\r\n   open var chOff: String\r\n   open var vAlign: String\r\n   open var width: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLTableSectionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableSectionElement) to Kotlin\r\n */\r\npublic external abstract class HTMLTableSectionElement : HTMLElement {\r\n   open val rows: HTMLCollection\r\n   open var align: String\r\n   open var ch: String\r\n   open var chOff: String\r\n   open var vAlign: String\r\n   fun insertRow(index: Int = definedExternally): HTMLElement\r\n   fun deleteRow(index: Int): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLTableRowElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableRowElement) to Kotlin\r\n */\r\npublic external abstract class HTMLTableRowElement : HTMLElement {\r\n   open val rowIndex: Int\r\n   open val sectionRowIndex: Int\r\n   open val cells: HTMLCollection\r\n   open var align: String\r\n   open var ch: String\r\n   open var chOff: String\r\n   open var vAlign: String\r\n   open var bgColor: String\r\n   fun insertCell(index: Int = definedExternally): HTMLElement\r\n   fun deleteCell(index: Int): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLTableCellElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCellElement) to Kotlin\r\n */\r\npublic external abstract class HTMLTableCellElement : HTMLElement {\r\n   open var colSpan: Int\r\n   open var rowSpan: Int\r\n   open var headers: String\r\n   open val cellIndex: Int\r\n   open var scope: String\r\n   open var abbr: String\r\n   open var align: String\r\n   open var axis: String\r\n   open var height: String\r\n   open var width: String\r\n   open var ch: String\r\n   open var chOff: String\r\n   open var noWrap: Boolean\r\n   open var vAlign: String\r\n   open var bgColor: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLFormElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFormElement) to Kotlin\r\n */\r\npublic external abstract class HTMLFormElement : HTMLElement {\r\n   open var acceptCharset: String\r\n   open var action: String\r\n   open var autocomplete: String\r\n   open var enctype: String\r\n   open var encoding: String\r\n   open var method: String\r\n   open var name: String\r\n   open var noValidate: Boolean\r\n   open var target: String\r\n   open val elements: HTMLFormControlsCollection\r\n   open val length: Int\r\n   fun submit(): Unit\r\n   fun reset(): Unit\r\n   fun checkValidity(): Boolean\r\n   fun reportValidity(): Boolean\r\n}\r\n\r\n@kotlin.internal.InlineOnly inline operator fun HTMLFormElement.get(index: Int): Element? = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun HTMLFormElement.get(name: String): UnionElementOrRadioNodeList? = asDynamic()[name]\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLLabelElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLabelElement) to Kotlin\r\n */\r\npublic external abstract class HTMLLabelElement : HTMLElement {\r\n   open val form: HTMLFormElement?\r\n   open var htmlFor: String\r\n   open val control: HTMLElement?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLInputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLInputElement) to Kotlin\r\n */\r\npublic external abstract class HTMLInputElement : HTMLElement {\r\n   open var accept: String\r\n   open var alt: String\r\n   open var autocomplete: String\r\n   open var autofocus: Boolean\r\n   open var

defaultChecked: Boolean\r\n   open var checked: Boolean\r\n   open var dirName: String\r\n   open var disabled: Boolean\r\n   open val form: HTMLFormElement?\r\n   open val files: FileList?\r\n   open var formAction: String\r\n   open var formEnctype: String\r\n   open var formMethod: String\r\n   open var formNoValidate: Boolean\r\n   open var formTarget: String\r\n   open var height: Int\r\n   open var indeterminate: Boolean\r\n   open var inputMode: String\r\n   open val list: HTMLElement?\r\n   open var max: String\r\n   open var maxLength: Int\r\n   open var min: String\r\n   open var minLength: Int\r\n   open var multiple: Boolean\r\n   open var name: String\r\n   open var pattern: String\r\n   open var placeholder: String\r\n   open var readOnly: Boolean\r\n   open var required: Boolean\r\n   open var size: Int\r\n   open var src: String\r\n   open var step: String\r\n   open var type: String\r\n   open var defaultValue: String\r\n   open var value: String\r\n   open var valueAsDate: dynamic\r\n   open var valueAsNumber: Double\r\n   open var width: Int\r\n   open val willValidate: Boolean\r\n   open val validity: ValidityState\r\n   open val validationMessage: String\r\n   open val labels: NodeList\r\n   open var selectionStart: Int?\r\n   open var selectionEnd: Int?\r\n   open var selectionDirection: String?\r\n   open var align: String\r\n   open var useMap: String\r\n   fun stepUp(n: Int = definedExternally): Unit\r\n   fun stepDown(n: Int = definedExternally): Unit\r\n   fun checkValidity(): Boolean\r\n   fun reportValidity(): Boolean\r\n   fun setCustomValidity(error: String): Unit\r\n   fun select(): Unit\r\n   fun setRangeText(replacement: String): Unit\r\n   fun setRangeText(replacement: String, start: Int, end: Int, selectionMode: SelectionMode = definedExternally): Unit\r\n   fun setSelectionRange(start: Int, end: Int, direction: String = definedExternally): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLButtonElement](https://developer.mozilla.org/en/docs/Web/API/HTMLButtonElement) to Kotlin\r\n */\r\npublic external abstract class HTMLButtonElement : HTMLElement {\r\n   open var autofocus: Boolean\r\n   open var disabled: Boolean\r\n   open val form: HTMLFormElement?\r\n   open var formAction: String\r\n   open var formEnctype: String\r\n   open var formMethod: String\r\n   open var formNoValidate: Boolean\r\n   open var formTarget: String\r\n   open var name: String\r\n   open var type: String\r\n   open var value: String\r\n   open var menu: HTMLMenuElement?\r\n   open val willValidate: Boolean\r\n   open val validity: ValidityState\r\n   open val validationMessage: String\r\n   open val labels: NodeList\r\n   fun checkValidity(): Boolean\r\n   fun reportValidity(): Boolean\r\n   fun setCustomValidity(error: String): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLSelectElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSelectElement) to Kotlin\r\n */\r\npublic external abstract class HTMLSelectElement : HTMLElement, ItemArrayLike<Element> {\r\n   open var autocomplete: String\r\n   open var autofocus: Boolean\r\n   open var disabled: Boolean\r\n   open val form: HTMLFormElement?\r\n   open var multiple: Boolean\r\n   open var name: String\r\n   open var required: Boolean\r\n   open var size: Int\r\n   open val type: String\r\n   open val options: HTMLOptionsCollection\r\n   override var length: Int\r\n   open val selectedOptions: HTMLCollection\r\n   open var selectedIndex: Int\r\n   open var value: String\r\n   open val willValidate: Boolean\r\n   open val validity: ValidityState\r\n   open val validationMessage: String\r\n   open val labels: NodeList\r\n   override fun item(index: Int): Element?\r\n   fun namedItem(name: String): HTMLOptionElement?\r\n   fun add(element: UnionHTMLOptGroupElementOrHTMLOptionElement, before: dynamic = definedExternally): Unit\r\n   fun remove(index: Int): Unit\r\n   fun checkValidity(): Boolean\r\n   fun reportValidity(): Boolean\r\n   fun setCustomValidity(error: String): Unit\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun HTMLSelectElement.get(index: Int): Element? = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun HTMLSelectElement.set(index: Int, option: HTMLOptionElement?): Unit { asDynamic()[index] = option; }\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLDataListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataListElement) to Kotlin\r\n */\r\npublic external abstract class HTMLDataListElement : HTMLElement {\r\n   open val options: HTMLCollection\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLOptGroupElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptGroupElement) to Kotlin\r\n */\r\npublic external abstract class HTMLOptGroupElement : HTMLElement, UnionHTMLOptGroupElementOrHTMLOptionElement {\r\n   open var disabled: Boolean\r\n   open var label: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript

[HTMLOptionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptionElement) to Kotlin\r\n */\r\npublic external abstract class HTMLOptionElement : HTMLElement, UnionHTMLOptGroupElementOrHTMLOptionElement {\r\n open var disabled: Boolean\r\n open val form: HTMLFormElement?\r\n open var label: String\r\n open var defaultSelected: Boolean\r\n open var selected: Boolean\r\n open var value: String\r\n open var text: String\r\n open val index: Int\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Option](https://developer.mozilla.org/en/docs/Web/API/Option) to Kotlin\r\n */\r\npublic external open class Option(text: String = definedExternally, value: String = definedExternally, defaultSelected: Boolean = definedExternally, selected: Boolean = definedExternally) : HTMLOptionElement {\r\n override val children: HTMLCollection\r\n override val firstElementChild: Element?\r\n override val lastElementChild: Element?\r\n override val childElementCount: Int\r\n override val previousElementSibling: Element?\r\n override val nextElementSibling: Element?\r\n override val assignedSlot: HTMLSlotElement?\r\n override val style: CSSStyleDeclaration\r\n override var ongotpointercapture: ((PointerEvent) -> dynamic)?\r\n override var onlostpointercapture: ((PointerEvent) -> dynamic)?\r\n override var onpointerdown: ((PointerEvent) -> dynamic)?\r\n override var onpointermove: ((PointerEvent) -> dynamic)?\r\n override var onpointerup: ((PointerEvent) -> dynamic)?\r\n override var onpointercancel: ((PointerEvent) -> dynamic)?\r\n override var onpointerover: ((PointerEvent) -> dynamic)?\r\n override var onpointerout: ((PointerEvent) -> dynamic)?\r\n override var onpointerenter: ((PointerEvent) -> dynamic)?\r\n override var onpointerleave: ((PointerEvent) -> dynamic)?\r\n override var onabort: ((Event) -> dynamic)?\r\n override var onblur: ((FocusEvent) -> dynamic)?\r\n override var oncancel: ((Event) -> dynamic)?\r\n override var oncanplay: ((Event) -> dynamic)?\r\n override var oncanplaythrough: ((Event) -> dynamic)?\r\n override var onchange: ((Event) -> dynamic)?\r\n override var onclick: ((MouseEvent) -> dynamic)?\r\n override var onclose: ((Event) -> dynamic)?\r\n override var oncontextmenu: ((MouseEvent) -> dynamic)?\r\n override var oncuechange: ((Event) -> dynamic)?\r\n override var ondblclick: ((MouseEvent) -> dynamic)?\r\n override var ondrag: ((DragEvent) -> dynamic)?\r\n override var ondragend: ((DragEvent) -> dynamic)?\r\n override var ondragenter: ((DragEvent) -> dynamic)?\r\n override var ondragexit: ((DragEvent) -> dynamic)?\r\n override var ondragleave: ((DragEvent) -> dynamic)?\r\n override var ondragover: ((DragEvent) -> dynamic)?\r\n override var ondragstart: ((DragEvent) -> dynamic)?\r\n override var ondrop: ((DragEvent) -> dynamic)?\r\n override var ondurationchange: ((Event) -> dynamic)?\r\n override var onemptied: ((Event) -> dynamic)?\r\n override var onended: ((Event) -> dynamic)?\r\n override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\r\n override var onfocus: ((FocusEvent) -> dynamic)?\r\n override var oninput: ((InputEvent) -> dynamic)?\r\n override var oninvalid: ((Event) -> dynamic)?\r\n override var onkeydown: ((KeyboardEvent) -> dynamic)?\r\n override var onkeypress: ((KeyboardEvent) -> dynamic)?\r\n override var onkeyup: ((KeyboardEvent) -> dynamic)?\r\n override var onload: ((Event) -> dynamic)?\r\n override var onloadeddata: ((Event) -> dynamic)?\r\n override var onloadedmetadata: ((Event) -> dynamic)?\r\n override var onloadend: ((Event) -> dynamic)?\r\n override var onloadstart: ((ProgressEvent) -> dynamic)?\r\n override var onmousedown: ((MouseEvent) -> dynamic)?\r\n override var onmouseenter: ((MouseEvent) -> dynamic)?\r\n override var onmouseleave: ((MouseEvent) -> dynamic)?\r\n override var onmousemove: ((MouseEvent) -> dynamic)?\r\n override var onmouseout: ((MouseEvent) -> dynamic)?\r\n override var onmouseover: ((MouseEvent) -> dynamic)?\r\n override var onmouseup: ((MouseEvent) -> dynamic)?\r\n override var onwheel: ((WheelEvent) -> dynamic)?\r\n override var onpause: ((Event) -> dynamic)?\r\n override var onplay: ((Event) -> dynamic)?\r\n override var onplaying: ((Event) -> dynamic)?\r\n override var onprogress: ((ProgressEvent) -> dynamic)?\r\n override var onratechange: ((Event) -> dynamic)?\r\n override var onreset: ((Event) -> dynamic)?\r\n override var onresize: ((Event) -> dynamic)?\r\n override var onscroll: ((Event) -> dynamic)?\r\n override var onseeked: ((Event) -> dynamic)?\r\n override var onseeking: ((Event) -> dynamic)?\r\n override var onselect: ((Event) -> dynamic)?\r\n override var onshow: ((Event) -> dynamic)?\r\n override var onstalled: ((Event) -> dynamic)?\r\n override var onsubmit: ((Event) -> dynamic)?\r\n override var onsuspend: ((Event) -> dynamic)?\r\n override var ontimeupdate: ((Event) -> dynamic)?\r\n override var ontoggle: ((Event) -> dynamic)?\r\n override var onvolumechange: ((Event) -> dynamic)?\r\n override var onwaiting: ((Event) -> dynamic)?\r\n override var

oncopy: ((ClipboardEvent) -> dynamic)?\r\n   override var oncut: ((ClipboardEvent) -> dynamic)?\r\n   override var onpaste: ((ClipboardEvent) -> dynamic)?\r\n   override var contentEditable: String\r\n   override val isContentEditable: Boolean\r\n   override fun prepend(vararg nodes: dynamic): Unit\r\n   override fun append(vararg nodes: dynamic): Unit\r\n   override fun querySelector(selectors: String): Element?\r\n   override fun querySelectorAll(selectors: String): NodeList\r\n   override fun before(vararg nodes: dynamic): Unit\r\n   override fun after(vararg nodes: dynamic): Unit\r\n   override fun replaceWith(vararg nodes: dynamic): Unit\r\n   override fun remove(): Unit\r\n   override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\r\n   override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\r\n   override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\r\n   override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLTextAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTextAreaElement) to Kotlin\r\n */\r\npublic external abstract class HTMLTextAreaElement : HTMLElement {\r\n   open var autocomplete: String\r\n   open var autofocus: Boolean\r\n   open var cols: Int\r\n   open var dirName: String\r\n   open var disabled: Boolean\r\n   open val form: HTMLFormElement?\r\n   open var inputMode: String\r\n   open var maxLength: Int\r\n   open var minLength: Int\r\n   open var name: String\r\n   open var placeholder: String\r\n   open var readOnly: Boolean\r\n   open var required: Boolean\r\n   open var rows: Int\r\n   open var wrap: String\r\n   open val type: String\r\n   open var defaultValue: String\r\n   open var value: String\r\n   open val textLength: Int\r\n   open val willValidate: Boolean\r\n   open val validity: ValidityState\r\n   open val validationMessage: String\r\n   open val labels: NodeList\r\n   open var selectionStart: Int?\r\n   open var selectionEnd: Int?\r\n   open var selectionDirection: String?\r\n   fun checkValidity(): Boolean\r\n   fun reportValidity(): Boolean\r\n   fun setCustomValidity(error: String): Unit\r\n   fun select(): Unit\r\n   fun setRangeText(replacement: String): Unit\r\n   fun setRangeText(replacement: String, start: Int, end: Int, selectionMode: SelectionMode = definedExternally): Unit\r\n   fun setSelectionRange(start: Int, end: Int, direction: String = definedExternally): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLKeygenElement](https://developer.mozilla.org/en/docs/Web/API/HTMLKeygenElement) to Kotlin\r\n */\r\npublic external abstract class HTMLKeygenElement : HTMLElement {\r\n   open var autofocus: Boolean\r\n   open var challenge: String\r\n   open var disabled: Boolean\r\n   open val form: HTMLFormElement?\r\n   open var keytype: String\r\n   open var name: String\r\n   open val type: String\r\n   open val willValidate: Boolean\r\n   open val validity: ValidityState\r\n   open val validationMessage: String\r\n   open val labels: NodeList\r\n   fun checkValidity(): Boolean\r\n   fun reportValidity(): Boolean\r\n   fun setCustomValidity(error: String): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLOutputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOutputElement) to Kotlin\r\n */\r\npublic external abstract class HTMLOutputElement : HTMLElement {\r\n   open val htmlFor: DOMTokenList\r\n   open val form: HTMLFormElement?\r\n   open var name: String\r\n   open val type: String\r\n   open var defaultValue: String\r\n   open var value: String\r\n   open val willValidate: Boolean\r\n   open val validity: ValidityState\r\n   open val validationMessage: String\r\n   open val labels: NodeList\r\n   fun checkValidity(): Boolean\r\n   fun reportValidity(): Boolean\r\n   fun setCustomValidity(error: String): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLProgressElement](https://developer.mozilla.org/en/docs/Web/API/HTMLProgressElement) to Kotlin\r\n */\r\npublic external abstract class HTMLProgressElement : HTMLElement {\r\n   open var value: Double\r\n   open var max: Double\r\n   open val position: Double\r\n   open val labels: NodeList\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLMeterElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMeterElement) to Kotlin\r\n */\r\npublic external abstract class HTMLMeterElement : HTMLElement {\r\n   open var value: Double\r\n   open var min: Double\r\n   open var max: Double\r\n   open var low: Double\r\n   open var high: Double\r\n   open var optimum: Double\r\n   open val labels: NodeList\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLFieldSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFieldSetElement) to Kotlin\r\n

*/\r\npublic external abstract class HTMLFieldSetElement : HTMLElement {\r\n   open var disabled: Boolean\r\n   open val form: HTMLFormElement?\r\n   open var name: String\r\n   open val type: String\r\n   open val elements: HTMLCollection\r\n   open val willValidate: Boolean\r\n   open val validity: ValidityState\r\n   open val validationMessage: String\r\n   fun checkValidity(): Boolean\r\n   fun reportValidity(): Boolean\r\n   fun setCustomValidity(error: String): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLLegendElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLegendElement) to Kotlin\r\n */\r\npublic external abstract class HTMLLegendElement : HTMLElement {\r\n   open val form: HTMLFormElement?\r\n   open var align: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ValidityState](https://developer.mozilla.org/en/docs/Web/API/ValidityState) to Kotlin\r\n */\r\npublic external abstract class ValidityState {\r\n   open val valueMissing: Boolean\r\n   open val typeMismatch: Boolean\r\n   open val patternMismatch: Boolean\r\n   open val tooLong: Boolean\r\n   open val tooShort: Boolean\r\n   open val rangeUnderflow: Boolean\r\n   open val rangeOverflow: Boolean\r\n   open val stepMismatch: Boolean\r\n   open val badInput: Boolean\r\n   open val customError: Boolean\r\n   open val valid: Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLDetailsElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDetailsElement) to Kotlin\r\n */\r\npublic external abstract class HTMLDetailsElement : HTMLElement {\r\n   open var open: Boolean\r\n}\r\n\r\npublic external abstract class HTMLMenuElement : HTMLElement {\r\n   open var type: String\r\n   open var label: String\r\n   open var compact: Boolean\r\n}\r\n\r\npublic external abstract class HTMLMenuItemElement : HTMLElement {\r\n   open var type: String\r\n   open var label: String\r\n   open var icon: String\r\n   open var disabled: Boolean\r\n   open var checked: Boolean\r\n   open var radiogroup: String\r\n   open var default: Boolean\r\n}\r\n\r\npublic external open class RelatedEvent(type: String, eventInitDict: RelatedEventInit = definedExternally) : Event {\r\n   open val relatedTarget: EventTarget?\r\n}\r\n\r\npublic external interface RelatedEventInit : EventInit {\r\n   var relatedTarget: EventTarget? /* = null */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun RelatedEventInit(relatedTarget: EventTarget? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): RelatedEventInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"relatedTarget\"] = relatedTarget\r\n   o[\"bubbles\"] = bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLDialogElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDialogElement) to Kotlin\r\n */\r\npublic external abstract class HTMLDialogElement : HTMLElement {\r\n   open var open: Boolean\r\n   open var returnValue: String\r\n   fun show(anchor: UnionElementOrMouseEvent = definedExternally): Unit\r\n   fun showModal(anchor: UnionElementOrMouseEvent = definedExternally): Unit\r\n   fun close(returnValue: String = definedExternally): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLScriptElement](https://developer.mozilla.org/en/docs/Web/API/HTMLScriptElement) to Kotlin\r\n */\r\npublic external abstract class HTMLScriptElement : HTMLElement, HTMLOrSVGScriptElement {\r\n   open var src: String\r\n   open var type: String\r\n   open var charset: String\r\n   open var async: Boolean\r\n   open var defer: Boolean\r\n   open var crossOrigin: String?\r\n   open var text: String\r\n   open var nonce: String\r\n   open var event: String\r\n   open var htmlFor: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLTemplateElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTemplateElement) to Kotlin\r\n */\r\npublic external abstract class HTMLTemplateElement : HTMLElement {\r\n   open val content: DocumentFragment\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLSlotElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSlotElement) to Kotlin\r\n */\r\npublic external abstract class HTMLSlotElement : HTMLElement {\r\n   open var name: String\r\n   fun assignedNodes(options: AssignedNodesOptions = definedExternally): Array<Node>\r\n}\r\n\r\npublic external interface AssignedNodesOptions {\r\n   var flatten: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun AssignedNodesOptions(flatten: Boolean? = false): AssignedNodesOptions {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"flatten\"] = flatten\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript

[HTMLCanvasElement](https://developer.mozilla.org/en/docs/Web/API/HTMLCanvasElement) to Kotlin\r\n */\r\npublic external abstract class HTMLCanvasElement : HTMLElement, TexImageSource {\r\n open var width: Int\r\n open var height: Int\r\n fun getContext(contextId: String, vararg arguments: Any?): RenderingContext?\r\n fun toDataURL(type: String = definedExternally, quality: Any? = definedExternally): String\r\n fun toBlob(_callback: (Blob?) -> Unit, type: String = definedExternally, quality: Any? = definedExternally): Unit\r\n}\r\n\r\npublic external interface CanvasRenderingContext2DSettings {\r\n var alpha: Boolean? /* = true */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun CanvasRenderingContext2DSettings(alpha: Boolean? = true): CanvasRenderingContext2DSettings {\r\n val o = js(\"({})\")\r\n\r\n o[\"alpha\"] = alpha\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CanvasRenderingContext2D](https://developer.mozilla.org/en/docs/Web/API/CanvasRenderingContext2D) to Kotlin\r\n */\r\npublic external abstract class CanvasRenderingContext2D : CanvasState, CanvasTransform, CanvasCompositing, CanvasImageSmoothing, CanvasFillStrokeStyles, CanvasShadowStyles, CanvasFilters, CanvasRect, CanvasDrawPath, CanvasUserInterface, CanvasText, CanvasDrawImage, CanvasHitRegion, CanvasImageData, CanvasPathDrawingStyles, CanvasTextDrawingStyles, CanvasPath, RenderingContext {\r\n open val canvas: HTMLCanvasElement\r\n}\r\n\r\npublic external interface CanvasState {\r\n fun save(): Unit\r\n fun restore(): Unit\r\n}\r\n\r\npublic external interface CanvasTransform {\r\n fun scale(x: Double, y: Double): Unit\r\n fun rotate(angle: Double): Unit\r\n fun translate(x: Double, y: Double): Unit\r\n fun transform(a: Double, b: Double, c: Double, d: Double, e: Double, f: Double): Unit\r\n fun getTransform(): DOMMatrix\r\n fun setTransform(a: Double, b: Double, c: Double, d: Double, e: Double, f: Double): Unit\r\n fun setTransform(transform: dynamic = definedExternally): Unit\r\n fun resetTransform(): Unit\r\n}\r\n\r\npublic external interface CanvasCompositing {\r\n var globalAlpha: Double\r\n var globalCompositeOperation: String\r\n}\r\n\r\npublic external interface CanvasImageSmoothing {\r\n var imageSmoothingEnabled: Boolean\r\n var imageSmoothingQuality: ImageSmoothingQuality\r\n}\r\n\r\npublic external interface CanvasFillStrokeStyles {\r\n var strokeStyle: dynamic\r\n var fillStyle: dynamic\r\n fun createLinearGradient(x0: Double, y0: Double, x1: Double, y1: Double): CanvasGradient\r\n fun createRadialGradient(x0: Double, y0: Double, r0: Double, x1: Double, y1: Double, r1: Double): CanvasGradient\r\n fun createPattern(image: dynamic, repetition: String): CanvasPattern?\r\n}\r\n\r\npublic external interface CanvasShadowStyles {\r\n var shadowOffsetX: Double\r\n var shadowOffsetY: Double\r\n var shadowBlur: Double\r\n var shadowColor: String\r\n}\r\n\r\npublic external interface CanvasFilters {\r\n var filter: String\r\n}\r\n\r\npublic external interface CanvasRect {\r\n fun clearRect(x: Double, y: Double, w: Double, h: Double): Unit\r\n fun fillRect(x: Double, y: Double, w: Double, h: Double): Unit\r\n fun strokeRect(x: Double, y: Double, w: Double, h: Double): Unit\r\n}\r\n\r\npublic external interface CanvasDrawPath {\r\n fun beginPath(): Unit\r\n fun fill(fillRule: CanvasFillRule = definedExternally): Unit\r\n fun fill(path: Path2D, fillRule: CanvasFillRule = definedExternally): Unit\r\n fun stroke(): Unit\r\n fun stroke(path: Path2D): Unit\r\n fun clip(fillRule: CanvasFillRule = definedExternally): Unit\r\n fun clip(path: Path2D, fillRule: CanvasFillRule = definedExternally): Unit\r\n fun resetClip(): Unit\r\n fun isPointInPath(x: Double, y: Double, fillRule: CanvasFillRule = definedExternally): Boolean\r\n fun isPointInPath(path: Path2D, x: Double, y: Double, fillRule: CanvasFillRule = definedExternally): Boolean\r\n fun isPointInStroke(x: Double, y: Double): Boolean\r\n fun isPointInStroke(path: Path2D, x: Double, y: Double): Boolean\r\n}\r\n\r\npublic external interface CanvasUserInterface {\r\n fun drawFocusIfNeeded(element: Element): Unit\r\n fun drawFocusIfNeeded(path: Path2D, element: Element): Unit\r\n fun scrollPathIntoView(): Unit\r\n fun scrollPathIntoView(path: Path2D): Unit\r\n}\r\n\r\npublic external interface CanvasText {\r\n fun fillText(text: String, x: Double, y: Double, maxWidth: Double = definedExternally): Unit\r\n fun strokeText(text: String, x: Double, y: Double, maxWidth: Double = definedExternally): Unit\r\n fun measureText(text: String): TextMetrics\r\n}\r\n\r\npublic external interface CanvasDrawImage {\r\n fun drawImage(image: dynamic, dx: Double, dy: Double): Unit\r\n fun drawImage(image: dynamic, dx: Double, dy: Double, dw: Double, dh: Double): Unit\r\n fun drawImage(image: dynamic, sx: Double, sy: Double, sw: Double, sh: Double, dx: Double, dy: Double, dw: Double, dh: Double):

Unit\r\n}\r\n\r\npublic external interface CanvasHitRegion {\r\n fun addHitRegion(options: HitRegionOptions = definedExternally): Unit\r\n fun removeHitRegion(id: String): Unit\r\n fun clearHitRegions(): Unit\r\n}\r\n\r\npublic external interface CanvasImageData {\r\n fun createImageData(sw: Double, sh: Double): ImageData\r\n fun createImageData(imagedata: ImageData): ImageData\r\n fun getImageData(sx: Double, sy: Double, sw: Double, sh: Double): ImageData\r\n fun putImageData(imagedata: ImageData, dx: Double, dy: Double): Unit\r\n fun putImageData(imagedata: ImageData, dx: Double, dy: Double, dirtyX: Double, dirtyY: Double, dirtyWidth: Double, dirtyHeight: Double): Unit\r\n}\r\n\r\npublic external interface CanvasPathDrawingStyles {\r\n var lineWidth: Double\r\n var lineCap: CanvasLineCap\r\n var lineJoin: CanvasLineJoin\r\n var miterLimit: Double\r\n var lineDashOffset: Double\r\n fun setLineDash(segments: Array<Double>): Unit\r\n fun getLineDash(): Array<Double>\r\n}\r\n\r\npublic external interface CanvasTextDrawingStyles {\r\n var font: String\r\n var textAlign: CanvasTextAlign\r\n var textBaseline: CanvasTextBaseline\r\n var direction: CanvasDirection\r\n}\r\n\r\npublic external interface CanvasPath {\r\n fun closePath(): Unit\r\n fun moveTo(x: Double, y: Double): Unit\r\n fun lineTo(x: Double, y: Double): Unit\r\n fun quadraticCurveTo(cpx: Double, cpy: Double, x: Double, y: Double): Unit\r\n fun bezierCurveTo(cp1x: Double, cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y: Double): Unit\r\n fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radius: Double): Unit\r\n fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radiusX: Double, radiusY: Double, rotation: Double): Unit\r\n fun rect(x: Double, y: Double, w: Double, h: Double): Unit\r\n fun arc(x: Double, y: Double, radius: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean = definedExternally): Unit\r\n fun ellipse(x: Double, y: Double, radiusX: Double, radiusY: Double, rotation: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean = definedExternally): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CanvasGradient](https://developer.mozilla.org/en/docs/Web/API/CanvasGradient) to Kotlin\r\n */\r\npublic external abstract class CanvasGradient {\r\n fun addColorStop(offset: Double, color: String): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CanvasPattern](https://developer.mozilla.org/en/docs/Web/API/CanvasPattern) to Kotlin\r\n */\r\npublic external abstract class CanvasPattern {\r\n fun setTransform(transform: dynamic = definedExternally): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [TextMetrics](https://developer.mozilla.org/en/docs/Web/API/TextMetrics) to Kotlin\r\n */\r\npublic external abstract class TextMetrics {\r\n open val width: Double\r\n open val actualBoundingBoxLeft: Double\r\n open val actualBoundingBoxRight: Double\r\n open val fontBoundingBoxAscent: Double\r\n open val fontBoundingBoxDescent: Double\r\n open val actualBoundingBoxAscent: Double\r\n open val actualBoundingBoxDescent: Double\r\n open val emHeightAscent: Double\r\n open val emHeightDescent: Double\r\n open val hangingBaseline: Double\r\n open val alphabeticBaseline: Double\r\n open val ideographicBaseline: Double\r\n}\r\n\r\npublic external interface HitRegionOptions {\r\n var path: Path2D? /* = null */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var fillRule: CanvasFillRule? /* = CanvasFillRule.NONZERO */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var id: String? /* = \"\" */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var parentID: String? /* = null */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var cursor: String? /* = \"inherit\" */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var control: Element? /* = null */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var label: String? /* = null */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var role: String? /* = null */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun HitRegionOptions(path: Path2D? = null, fillRule: CanvasFillRule? = CanvasFillRule.NONZERO, id: String? = \"\", parentID: String? = null, cursor: String? = \"inherit\", control: Element? = null, label: String? = null, role: String? = null): HitRegionOptions {\r\n val o = js(\"({})\")\r\n\r\n o[\"path\"] = path\r\n o[\"fillRule\"] = fillRule\r\n o[\"id\"] = id\r\n o[\"parentID\"] = parentID\r\n o[\"cursor\"] = cursor\r\n o[\"control\"] = control\r\n o[\"label\"] = label\r\n o[\"role\"] = role\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript

[ImageData](https://developer.mozilla.org/en/docs/Web/API/ImageData) to Kotlin\r\n */\r\npublic external open class ImageData : TexImageSource {\r\n constructor(sw: Int, sh: Int)\r\n constructor(data: Uint8ClampedArray, sw: Int, sh: Int = definedExternally)\r\n open val width: Int\r\n open val height: Int\r\n open val data: Uint8ClampedArray\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Path2D](https://developer.mozilla.org/en/docs/Web/API/Path2D) to Kotlin\r\n */\r\npublic external open class Path2D() : CanvasPath {\r\n constructor(path: Path2D)\r\n constructor(paths: Array<Path2D>, fillRule: CanvasFillRule = definedExternally)\r\n constructor(d: String)\r\n fun addPath(path: Path2D, transform: dynamic = definedExternally): Unit\r\n override fun closePath(): Unit\r\n override fun moveTo(x: Double, y: Double): Unit\r\n override fun lineTo(x: Double, y: Double): Unit\r\n override fun quadraticCurveTo(cpx: Double, cpy: Double, x: Double, y: Double): Unit\r\n override fun bezierCurveTo(cp1x: Double, cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y: Double): Unit\r\n override fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radius: Double): Unit\r\n override fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radiusX: Double, radiusY: Double, rotation: Double): Unit\r\n override fun rect(x: Double, y: Double, w: Double, h: Double): Unit\r\n override fun arc(x: Double, y: Double, radius: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean /* = definedExternally */): Unit\r\n override fun ellipse(x: Double, y: Double, radiusX: Double, radiusY: Double, rotation: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean /* = definedExternally */): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Touch](https://developer.mozilla.org/en/docs/Web/API/Touch) to Kotlin\r\n */\r\npublic external abstract class Touch {\r\n open val region: String?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ImageBitmapRenderingContext](https://developer.mozilla.org/en/docs/Web/API/ImageBitmapRenderingContext) to Kotlin\r\n */\r\npublic external abstract class ImageBitmapRenderingContext {\r\n open val canvas: HTMLCanvasElement\r\n fun transferFromImageBitmap(bitmap: ImageBitmap?): Unit\r\n}\r\n\r\npublic external interface ImageBitmapRenderingContextSettings {\r\n var alpha: Boolean? /* = true */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ImageBitmapRenderingContextSettings(alpha: Boolean? = true): ImageBitmapRenderingContextSettings {\r\n val o = js(\"({})\")\r\n\r\n o[\"alpha\"] = alpha\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CustomElementRegistry](https://developer.mozilla.org/en/docs/Web/API/CustomElementRegistry) to Kotlin\r\n */\r\npublic external abstract class CustomElementRegistry {\r\n fun define(name: String, constructor: () -> dynamic, options: ElementDefinitionOptions = definedExternally): Unit\r\n fun get(name: String): Any?\r\n fun whenDefined(name: String): Promise<Unit>\r\n}\r\n\r\npublic external interface ElementDefinitionOptions {\r\n var extends: String?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ElementDefinitionOptions(extends: String? = undefined): ElementDefinitionOptions {\r\n val o = js(\"({})\")\r\n\r\n o[\"extends\"] = extends\r\n\r\n return o\r\n}\r\n\r\npublic external interface ElementContentEditable {\r\n var contentEditable: String\r\n val isContentEditable: Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [DataTransfer](https://developer.mozilla.org/en/docs/Web/API/DataTransfer) to Kotlin\r\n */\r\npublic external abstract class DataTransfer {\r\n open var dropEffect: String\r\n open var effectAllowed: String\r\n open val items: DataTransferItemList\r\n open val types: Array<out String>\r\n open val files: FileList\r\n fun setDragImage(image: Element, x: Int, y: Int): Unit\r\n fun getData(format: String): String\r\n fun setData(format: String, data: String): Unit\r\n fun clearData(format: String = definedExternally): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [DataTransferItemList](https://developer.mozilla.org/en/docs/Web/API/DataTransferItemList) to Kotlin\r\n */\r\npublic external abstract class DataTransferItemList {\r\n open val length: Int\r\n fun add(data: String, type: String): DataTransferItem?\r\n fun add(data: File): DataTransferItem?\r\n fun remove(index: Int): Unit\r\n fun clear(): Unit\r\n}\r\n\r\n@kotlin.internal.InlineOnly inline operator fun DataTransferItemList.get(index: Int): DataTransferItem? = asDynamic()[index]\r\n\r\n/**\r\n * Exposes the JavaScript [DataTransferItem](https://developer.mozilla.org/en/docs/Web/API/DataTransferItem) to Kotlin\r\n */\r\npublic external abstract class DataTransferItem {\r\n open val kind: String\r\n open val type: String\r\n fun getAsString(_callback: ((String) -> Unit)?): Unit\r\n fun getAsFile(): File?\r\n}\r\n\r\n/**\r\n * Exposes the

JavaScript [DragEvent](https://developer.mozilla.org/en/docs/Web/API/DragEvent) to Kotlin\r\n */\r\npublic external open class DragEvent(type: String, eventInitDict: DragEventInit = definedExternally) : MouseEvent {\r\n open val dataTransfer: DataTransfer?\r\n}\r\n\r\npublic external interface DragEventInit : MouseEventInit {\r\n var dataTransfer: DataTransfer? /* = null */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun DragEventInit(dataTransfer: DataTransfer? = null, screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget: EventTarget? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): DragEventInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"dataTransfer\"] = dataTransfer\r\n o[\"screenX\"] = screenX\r\n o[\"screenY\"] = screenY\r\n o[\"clientX\"] = clientX\r\n o[\"clientY\"] = clientY\r\n o[\"button\"] = button\r\n o[\"buttons\"] = buttons\r\n o[\"relatedTarget\"] = relatedTarget\r\n o[\"ctrlKey\"] = ctrlKey\r\n o[\"shiftKey\"] = shiftKey\r\n o[\"altKey\"] = altKey\r\n o[\"metaKey\"] = metaKey\r\n o[\"modifierAltGraph\"] = modifierAltGraph\r\n o[\"modifierCapsLock\"] = modifierCapsLock\r\n o[\"modifierFn\"] = modifierFn\r\n o[\"modifierFnLock\"] = modifierFnLock\r\n o[\"modifierHyper\"] = modifierHyper\r\n o[\"modifierNumLock\"] = modifierNumLock\r\n o[\"modifierScrollLock\"] = modifierScrollLock\r\n o[\"modifierSuper\"] = modifierSuper\r\n o[\"modifierSymbol\"] = modifierSymbol\r\n o[\"modifierSymbolLock\"] = modifierSymbolLock\r\n o[\"view\"] = view\r\n o[\"detail\"] = detail\r\n o[\"bubbles\"] = bubbles\r\n o[\"cancelable\"] = cancelable\r\n o[\"composed\"] = composed\r\n\r\n return o\r\n}\r\n\r\npublic external abstract class BarProp {\r\n open val visible: Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [History](https://developer.mozilla.org/en/docs/Web/API/History) to Kotlin\r\n */\r\npublic external abstract class History {\r\n open val length: Int\r\n open var scrollRestoration: ScrollRestoration\r\n open val state: Any?\r\n fun go(delta: Int = definedExternally): Unit\r\n fun back(): Unit\r\n fun forward(): Unit\r\n fun pushState(data: Any?, title: String, url: String? = definedExternally): Unit\r\n fun replaceState(data: Any?, title: String, url: String? = definedExternally): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Location](https://developer.mozilla.org/en/docs/Web/API/Location) to Kotlin\r\n */\r\npublic external abstract class Location {\r\n open var href: String\r\n open val origin: String\r\n open var protocol: String\r\n open var host: String\r\n open var hostname: String\r\n open var port: String\r\n open var pathname: String\r\n open var search: String\r\n open var hash: String\r\n open val ancestorOrigins: Array<out String>\r\n fun assign(url: String): Unit\r\n fun replace(url: String): Unit\r\n fun reload(): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [PopStateEvent](https://developer.mozilla.org/en/docs/Web/API/PopStateEvent) to Kotlin\r\n */\r\npublic external open class PopStateEvent(type: String, eventInitDict: PopStateEventInit = definedExternally) : Event {\r\n open val state: Any?\r\n}\r\n\r\npublic external interface PopStateEventInit : EventInit {\r\n var state: Any? /* = null */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun PopStateEventInit(state: Any? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): PopStateEventInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"state\"] = state\r\n o[\"bubbles\"] = bubbles\r\n o[\"cancelable\"] = cancelable\r\n o[\"composed\"] = composed\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HashChangeEvent](https://developer.mozilla.org/en/docs/Web/API/HashChangeEvent) to Kotlin\r\n */\r\npublic external open class HashChangeEvent(type: String, eventInitDict: HashChangeEventInit = definedExternally) : Event {\r\n open val oldURL: String\r\n open val newURL: String\r\n}\r\n\r\npublic external interface HashChangeEventInit : EventInit {\r\n var oldURL: String? /* = \"\" */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var newURL: String? /* = \"\" */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun HashChangeEventInit(oldURL: String? = \"\", newURL: String? = \"\", bubbles: Boolean? = false, cancelable:

Boolean? = false, composed: Boolean? = false): HashChangeEventInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"oldURL\"] = oldURL\r\n   o[\"newURL\"] = newURL\r\n   o[\"bubbles\"] = bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [PageTransitionEvent](https://developer.mozilla.org/en/docs/Web/API/PageTransitionEvent) to Kotlin\r\n */\r\npublic external open class PageTransitionEvent(type: String, eventInitDict: PageTransitionEventInit = definedExternally) : Event {\r\n   open val persisted: Boolean\r\n}\r\n\r\npublic external interface PageTransitionEventInit : EventInit {\r\n   var persisted: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun PageTransitionEventInit(persisted: Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): PageTransitionEventInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"persisted\"] = persisted\r\n   o[\"bubbles\"] = bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [BeforeUnloadEvent](https://developer.mozilla.org/en/docs/Web/API/BeforeUnloadEvent) to Kotlin\r\n */\r\npublic external open class BeforeUnloadEvent : Event {\r\n   var returnValue: String\r\n}\r\n\r\npublic external abstract class ApplicationCache : EventTarget {\r\n   open val status: Short\r\n   open var onchecking: ((Event) -> dynamic)?\r\n   open var onerror: ((Event) -> dynamic)?\r\n   open var onnoupdate: ((Event) -> dynamic)?\r\n   open var ondownloading: ((Event) -> dynamic)?\r\n   open var onprogress: ((ProgressEvent) -> dynamic)?\r\n   open var onupdateready: ((Event) -> dynamic)?\r\n   open var oncached: ((Event) -> dynamic)?\r\n   open var onobsolete: ((Event) -> dynamic)?\r\n   fun update(): Unit\r\n   fun abort(): Unit\r\n   fun swapCache(): Unit\r\n\r\n   companion object {\r\n   val UNCACHED: Short\r\n   val IDLE: Short\r\n   val CHECKING: Short\r\n   val DOWNLOADING: Short\r\n   val UPDATEREADY: Short\r\n   val OBSOLETE: Short\r\n   }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [NavigatorOnLine](https://developer.mozilla.org/en/docs/Web/API/NavigatorOnLine) to Kotlin\r\n */\r\npublic external interface NavigatorOnLine {\r\n   val onLine: Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ErrorEvent](https://developer.mozilla.org/en/docs/Web/API/ErrorEvent) to Kotlin\r\n */\r\npublic external open class ErrorEvent(type: String, eventInitDict: ErrorEventInit = definedExternally) : Event {\r\n   open val message: String\r\n   open val filename: String\r\n   open val lineno: Int\r\n   open val colno: Int\r\n   open val error: Any?\r\n}\r\n\r\npublic external interface ErrorEventInit : EventInit {\r\n   var message: String? /* = \"\" */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var filename: String? /* = \"\" */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var lineno: Int? /* = 0 */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var colno: Int? /* = 0 */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var error: Any? /* = null */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ErrorEventInit(message: String? = \"\", filename: String? = \"\", lineno: Int? = 0, colno: Int? = 0, error: Any? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ErrorEventInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"message\"] = message\r\n   o[\"filename\"] = filename\r\n   o[\"lineno\"] = lineno\r\n   o[\"colno\"] = colno\r\n   o[\"error\"] = error\r\n   o[\"bubbles\"] = bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [PromiseRejectionEvent](https://developer.mozilla.org/en/docs/Web/API/PromiseRejectionEvent) to Kotlin\r\n */\r\npublic external open class PromiseRejectionEvent(type: String, eventInitDict: PromiseRejectionEventInit) : Event {\r\n   open val promise: Promise<Any?>\r\n   open val reason: Any?\r\n}\r\n\r\npublic external interface PromiseRejectionEventInit : EventInit {\r\n   var promise: Promise<Any?>?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var reason: Any?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun PromiseRejectionEventInit(promise: Promise<Any?>?, reason: Any? = undefined, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): PromiseRejectionEventInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"promise\"] = promise\r\n   o[\"reason\"] = reason\r\n   o[\"bubbles\"] = bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript

[GlobalEventHandlers](https://developer.mozilla.org/en/docs/Web/API/GlobalEventHandlers) to Kotlin\r\n */\r\npublic external interface GlobalEventHandlers {\r\n   var ongotpointercapture: ((PointerEvent) -> dynamic)?\r\n   var onlostpointercapture: ((PointerEvent) -> dynamic)?\r\n   var onpointerdown: ((PointerEvent) -> dynamic)?\r\n   var onpointermove: ((PointerEvent) -> dynamic)?\r\n   var onpointerup: ((PointerEvent) -> dynamic)?\r\n   var onpointercancel: ((PointerEvent) -> dynamic)?\r\n   var onpointerover: ((PointerEvent) -> dynamic)?\r\n   var onpointerout: ((PointerEvent) -> dynamic)?\r\n   var onpointerenter: ((PointerEvent) -> dynamic)?\r\n   var onpointerleave: ((PointerEvent) -> dynamic)?\r\n   var onabort: ((Event) -> dynamic)?\r\n   var onblur: ((FocusEvent) -> dynamic)?\r\n   var oncancel: ((Event) -> dynamic)?\r\n   var oncanplay: ((Event) -> dynamic)?\r\n   var oncanplaythrough: ((Event) -> dynamic)?\r\n   var onchange: ((Event) -> dynamic)?\r\n   var onclick: ((MouseEvent) -> dynamic)?\r\n   var onclose: ((Event) -> dynamic)?\r\n   var oncontextmenu: ((MouseEvent) -> dynamic)?\r\n   var oncuechange: ((Event) -> dynamic)?\r\n   var ondblclick: ((MouseEvent) -> dynamic)?\r\n   var ondrag: ((DragEvent) -> dynamic)?\r\n   var ondragend: ((DragEvent) -> dynamic)?\r\n   var ondragenter: ((DragEvent) -> dynamic)?\r\n   var ondragexit: ((DragEvent) -> dynamic)?\r\n   var ondragleave: ((DragEvent) -> dynamic)?\r\n   var ondragover: ((DragEvent) -> dynamic)?\r\n   var ondragstart: ((DragEvent) -> dynamic)?\r\n   var ondrop: ((DragEvent) -> dynamic)?\r\n   var ondurationchange: ((Event) -> dynamic)?\r\n   var onemptied: ((Event) -> dynamic)?\r\n   var onended: ((Event) -> dynamic)?\r\n   var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\r\n   var onfocus: ((FocusEvent) -> dynamic)?\r\n   var oninput: ((InputEvent) -> dynamic)?\r\n   var oninvalid: ((Event) -> dynamic)?\r\n   var onkeydown: ((KeyboardEvent) -> dynamic)?\r\n   var onkeypress: ((KeyboardEvent) -> dynamic)?\r\n   var onkeyup: ((KeyboardEvent) -> dynamic)?\r\n   var onload: ((Event) -> dynamic)?\r\n   var onloadeddata: ((Event) -> dynamic)?\r\n   var onloadedmetadata: ((Event) -> dynamic)?\r\n   var onloadend: ((Event) -> dynamic)?\r\n   var onloadstart: ((ProgressEvent) -> dynamic)?\r\n   var onmousedown: ((MouseEvent) -> dynamic)?\r\n   var onmouseenter: ((MouseEvent) -> dynamic)?\r\n   var onmouseleave: ((MouseEvent) -> dynamic)?\r\n   var onmousemove: ((MouseEvent) -> dynamic)?\r\n   var onmouseout: ((MouseEvent) -> dynamic)?\r\n   var onmouseover: ((MouseEvent) -> dynamic)?\r\n   var onmouseup: ((MouseEvent) -> dynamic)?\r\n   var onwheel: ((WheelEvent) -> dynamic)?\r\n   var onpause: ((Event) -> dynamic)?\r\n   var onplay: ((Event) -> dynamic)?\r\n   var onplaying: ((Event) -> dynamic)?\r\n   var onprogress: ((ProgressEvent) -> dynamic)?\r\n   var onratechange: ((Event) -> dynamic)?\r\n   var onreset: ((Event) -> dynamic)?\r\n   var onresize: ((Event) -> dynamic)?\r\n   var onscroll: ((Event) -> dynamic)?\r\n   var onseeked: ((Event) -> dynamic)?\r\n   var onseeking: ((Event) -> dynamic)?\r\n   var onselect: ((Event) -> dynamic)?\r\n   var onshow: ((Event) -> dynamic)?\r\n   var onstalled: ((Event) -> dynamic)?\r\n   var onsubmit: ((Event) -> dynamic)?\r\n   var onsuspend: ((Event) -> dynamic)?\r\n   var ontimeupdate: ((Event) -> dynamic)?\r\n   var ontoggle: ((Event) -> dynamic)?\r\n   var onvolumechange: ((Event) -> dynamic)?\r\n   var onwaiting: ((Event) -> dynamic)?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [WindowEventHandlers](https://developer.mozilla.org/en/docs/Web/API/WindowEventHandlers) to Kotlin\r\n */\r\npublic external interface WindowEventHandlers {\r\n   var onafterprint: ((Event) -> dynamic)?\r\n   var onbeforeprint: ((Event) -> dynamic)?\r\n   var onbeforeunload: ((BeforeUnloadEvent) -> String?)?\r\n   var onhashchange: ((HashChangeEvent) -> dynamic)?\r\n   var onlanguagechange: ((Event) -> dynamic)?\r\n   var onmessage: ((MessageEvent) -> dynamic)?\r\n   var onoffline: ((Event) -> dynamic)?\r\n   var ononline: ((Event) -> dynamic)?\r\n   var onpagehide: ((PageTransitionEvent) -> dynamic)?\r\n   var onpageshow: ((PageTransitionEvent) -> dynamic)?\r\n   var onpopstate: ((PopStateEvent) -> dynamic)?\r\n   var onrejectionhandled: ((Event) -> dynamic)?\r\n   var onstorage: ((StorageEvent) -> dynamic)?\r\n   var onunhandledrejection: ((PromiseRejectionEvent) -> dynamic)?\r\n   var onunload: ((Event) -> dynamic)?\r\n}\r\n\r\npublic external interface DocumentAndElementEventHandlers {\r\n   var oncopy: ((ClipboardEvent) -> dynamic)?\r\n   var oncut: ((ClipboardEvent) -> dynamic)?\r\n   var onpaste: ((ClipboardEvent) -> dynamic)?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [WindowOrWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WindowOrWorkerGlobalScope) to Kotlin\r\n */\r\npublic external interface WindowOrWorkerGlobalScope {\r\n   val caches: CacheStorage\r\n   val origin: String\r\n   fun fetch(input: dynamic, init: RequestInit = definedExternally): Promise<Response>\r\n

fun btoa(data: String): String\r\n fun atob(data: String): String\r\n fun setTimeout(handler: dynamic, timeout: Int = definedExternally, vararg arguments: Any?): Int\r\n fun clearTimeout(handle: Int = definedExternally): Unit\r\n fun setInterval(handler: dynamic, timeout: Int = definedExternally, vararg arguments: Any?): Int\r\n fun clearInterval(handle: Int = definedExternally): Unit\r\n fun createImageBitmap(image: dynamic, options: ImageBitmapOptions = definedExternally): Promise<ImageBitmap>\r\n fun createImageBitmap(image: dynamic, sx: Int, sy: Int, sw: Int, sh: Int, options: ImageBitmapOptions = definedExternally): Promise<ImageBitmap>\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [NavigatorID](https://developer.mozilla.org/en/docs/Web/API/NavigatorID) to Kotlin\r\n */\r\npublic external interface NavigatorID {\r\n val appCodeName: String\r\n val appName: String\r\n val appVersion: String\r\n val platform: String\r\n val product: String\r\n val productSub: String\r\n val userAgent: String\r\n val vendor: String\r\n val vendorSub: String\r\n val oscpu: String\r\n fun taintEnabled(): Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [NavigatorLanguage](https://developer.mozilla.org/en/docs/Web/API/NavigatorLanguage) to Kotlin\r\n */\r\npublic external interface NavigatorLanguage {\r\n val language: String\r\n val languages: Array<out String>\r\n}\r\n\r\npublic external interface NavigatorContentUtils {\r\n fun registerProtocolHandler(scheme: String, url: String, title: String): Unit\r\n fun registerContentHandler(mimeType: String, url: String, title: String): Unit\r\n fun isProtocolHandlerRegistered(scheme: String, url: String): String\r\n fun isContentHandlerRegistered(mimeType: String, url: String): String\r\n fun unregisterProtocolHandler(scheme: String, url: String): Unit\r\n fun unregisterContentHandler(mimeType: String, url: String): Unit\r\n}\r\n\r\npublic external interface NavigatorCookies {\r\n val cookieEnabled: Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [NavigatorPlugins](https://developer.mozilla.org/en/docs/Web/API/NavigatorPlugins) to Kotlin\r\n */\r\npublic external interface NavigatorPlugins {\r\n val plugins: PluginArray\r\n val mimeTypes: MimeTypeArray\r\n fun javaEnabled(): Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [PluginArray](https://developer.mozilla.org/en/docs/Web/API/PluginArray) to Kotlin\r\n */\r\npublic external abstract class PluginArray : ItemArrayLike<Plugin> {\r\n override val length: Int\r\n fun refresh(reload: Boolean = definedExternally): Unit\r\n override fun item(index: Int): Plugin?\r\n fun namedItem(name: String): Plugin?\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun PluginArray.get(index: Int): Plugin? = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun PluginArray.get(name: String): Plugin? = asDynamic()[name]\r\n\r\n/**\r\n * Exposes the JavaScript [MimeTypeArray](https://developer.mozilla.org/en/docs/Web/API/MimeTypeArray) to Kotlin\r\n */\r\npublic external abstract class MimeTypeArray : ItemArrayLike<MimeType> {\r\n override val length: Int\r\n override fun item(index: Int): MimeType?\r\n fun namedItem(name: String): MimeType?\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun MimeTypeArray.get(index: Int): MimeType? = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun MimeTypeArray.get(name: String): MimeType? = asDynamic()[name]\r\n\r\n/**\r\n * Exposes the JavaScript [Plugin](https://developer.mozilla.org/en/docs/Web/API/Plugin) to Kotlin\r\n */\r\npublic external abstract class Plugin : ItemArrayLike<MimeType> {\r\n open val name: String\r\n open val description: String\r\n open val filename: String\r\n override val length: Int\r\n override fun item(index: Int): MimeType?\r\n fun namedItem(name: String): MimeType?\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun Plugin.get(index: Int): MimeType? = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun Plugin.get(name: String): MimeType? = asDynamic()[name]\r\n\r\n/**\r\n * Exposes the JavaScript [MimeType](https://developer.mozilla.org/en/docs/Web/API/MimeType) to Kotlin\r\n */\r\npublic external abstract class MimeType {\r\n open val type: String\r\n open val description: String\r\n open val suffixes: String\r\n open val enabledPlugin: Plugin\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ImageBitmap](https://developer.mozilla.org/en/docs/Web/API/ImageBitmap) to Kotlin\r\n */\r\npublic external abstract class ImageBitmap : TexImageSource {\r\n open val width: Int\r\n open val height: Int\r\n fun close(): Unit\r\n}\r\n\r\npublic external interface ImageBitmapOptions {\r\n var imageOrientation: ImageOrientation? /* = ImageOrientation.NONE */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var

premultiplyAlpha: PremultiplyAlpha? /* = PremultiplyAlpha.DEFAULT */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var colorSpaceConversion: ColorSpaceConversion? /* = ColorSpaceConversion.DEFAULT */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var resizeWidth: Int?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var resizeHeight: Int?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var resizeQuality: ResizeQuality? /* = ResizeQuality.LOW */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ImageBitmapOptions(imageOrientation: ImageOrientation? = ImageOrientation.NONE, premultiplyAlpha: PremultiplyAlpha? = PremultiplyAlpha.DEFAULT, colorSpaceConversion: ColorSpaceConversion? = ColorSpaceConversion.DEFAULT, resizeWidth: Int? = undefined, resizeHeight: Int? = undefined, resizeQuality: ResizeQuality? = ResizeQuality.LOW): ImageBitmapOptions {\r\n val o = js(\"({})\")\r\n\r\n o[\"imageOrientation\"] = imageOrientation\r\n o[\"premultiplyAlpha\"] = premultiplyAlpha\r\n o[\"colorSpaceConversion\"] = colorSpaceConversion\r\n o[\"resizeWidth\"] = resizeWidth\r\n o[\"resizeHeight\"] = resizeHeight\r\n o[\"resizeQuality\"] = resizeQuality\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [MessageEvent](https://developer.mozilla.org/en/docs/Web/API/MessageEvent) to Kotlin\r\n */\r\npublic external open class MessageEvent(type: String, eventInitDict: MessageEventInit = definedExternally) : Event {\r\n open val data: Any?\r\n open val origin: String\r\n open val lastEventId: String\r\n open val source: UnionMessagePortOrWindow?\r\n open val ports: Array<out MessagePort>\r\n fun initMessageEvent(type: String, bubbles: Boolean, cancelable: Boolean, data: Any?, origin: String, lastEventId: String, source: UnionMessagePortOrWindow?, ports: Array<MessagePort>): Unit\r\n}\r\n\r\npublic external interface MessageEventInit : EventInit {\r\n var data: Any? /* = null */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var origin: String? /* = \"\" */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var lastEventId: String? /* = \"\" */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var source: UnionMessagePortOrWindow? /* = null */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var ports: Array<MessagePort>? /* = arrayOf() */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun MessageEventInit(data: Any? = null, origin: String? = \"\", lastEventId: String? = \"\", source: UnionMessagePortOrWindow? = null, ports: Array<MessagePort>? = arrayOf(), bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): MessageEventInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"data\"] = data\r\n o[\"origin\"] = origin\r\n o[\"lastEventId\"] = lastEventId\r\n o[\"source\"] = source\r\n o[\"ports\"] = ports\r\n o[\"bubbles\"] = bubbles\r\n o[\"cancelable\"] = cancelable\r\n o[\"composed\"] = composed\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [EventSource](https://developer.mozilla.org/en/docs/Web/API/EventSource) to Kotlin\r\n */\r\npublic external open class EventSource(url: String, eventSourceInitDict: EventSourceInit = definedExternally) : EventTarget {\r\n open val url: String\r\n open val withCredentials: Boolean\r\n open val readyState: Short\r\n var onopen: ((Event) -> dynamic)?\r\n var onmessage: ((MessageEvent) -> dynamic)?\r\n var onerror: ((Event) -> dynamic)?\r\n fun close(): Unit\r\n\r\n companion object {\r\n val CONNECTING: Short\r\n val OPEN: Short\r\n val CLOSED: Short\r\n }\r\n}\r\n\r\npublic external interface EventSourceInit {\r\n var withCredentials: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun EventSourceInit(withCredentials: Boolean? = false): EventSourceInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"withCredentials\"] = withCredentials\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [WebSocket](https://developer.mozilla.org/en/docs/Web/API/WebSocket) to Kotlin\r\n */\r\npublic external open class WebSocket(url: String, protocols: dynamic = definedExternally) : EventTarget {\r\n open val url: String\r\n open val readyState: Short\r\n open val bufferedAmount: Int\r\n var onopen: ((Event) -> dynamic)?\r\n var onerror: ((Event) -> dynamic)?\r\n var onclose: ((Event) -> dynamic)?\r\n open val extensions: String\r\n open val protocol: String\r\n var onmessage: ((MessageEvent) -> dynamic)?\r\n var binaryType: BinaryType\r\n fun close(code: Short = definedExternally, reason: String = definedExternally): Unit\r\n fun send(data: String):

Unit\r\n   fun send(data: Blob): Unit\r\n   fun send(data: ArrayBuffer): Unit\r\n   fun send(data: ArrayBufferView): Unit\r\n\r\n   companion object {\r\n   val CONNECTING: Short\r\n   val OPEN: Short\r\n   val CLOSING: Short\r\n   val CLOSED: Short\r\n   }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CloseEvent](https://developer.mozilla.org/en/docs/Web/API/CloseEvent) to Kotlin\r\n */\r\npublic external open class CloseEvent(type: String, eventInitDict: CloseEventInit = definedExternally) : Event {\r\n   open val wasClean: Boolean\r\n   open val code: Short\r\n   open val reason: String\r\n}\r\n\r\npublic external interface CloseEventInit : EventInit {\r\n   var wasClean: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var code: Short? /* = 0 */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var reason: String? /* = \"\" */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun CloseEventInit(wasClean: Boolean? = false, code: Short? = 0, reason: String? = \"\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): CloseEventInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"wasClean\"] = wasClean\r\n   o[\"code\"] = code\r\n   o[\"reason\"] = reason\r\n   o[\"bubbles\"] = bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [MessageChannel](https://developer.mozilla.org/en/docs/Web/API/MessageChannel) to Kotlin\r\n */\r\npublic external open class MessageChannel {\r\n   open val port1: MessagePort\r\n   open val port2: MessagePort\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [MessagePort](https://developer.mozilla.org/en/docs/Web/API/MessagePort) to Kotlin\r\n */\r\npublic external abstract class MessagePort : EventTarget, UnionMessagePortOrWindow, UnionMessagePortOrServiceWorker, UnionClientOrMessagePortOrServiceWorker {\r\n   open var onmessage: ((MessageEvent) -> dynamic)?\r\n   fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally): Unit\r\n   fun start(): Unit\r\n   fun close(): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [BroadcastChannel](https://developer.mozilla.org/en/docs/Web/API/BroadcastChannel) to Kotlin\r\n */\r\npublic external open class BroadcastChannel(name: String) : EventTarget {\r\n   open val name: String\r\n   var onmessage: ((MessageEvent) -> dynamic)?\r\n   fun postMessage(message: Any?): Unit\r\n   fun close(): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [WorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WorkerGlobalScope) to Kotlin\r\n */\r\npublic external abstract class WorkerGlobalScope : EventTarget, WindowOrWorkerGlobalScope, GlobalPerformance {\r\n   open val self: WorkerGlobalScope\r\n   open val location: WorkerLocation\r\n   open val navigator: WorkerNavigator\r\n   open var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\r\n   open var onlanguagechange: ((Event) -> dynamic)?\r\n   open var onoffline: ((Event) -> dynamic)?\r\n   open var ononline: ((Event) -> dynamic)?\r\n   open var onrejectionhandled: ((Event) -> dynamic)?\r\n   open var onunhandledrejection: ((PromiseRejectionEvent) -> dynamic)?\r\n   fun importScripts(vararg urls: String): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [DedicatedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/DedicatedWorkerGlobalScope) to Kotlin\r\n */\r\npublic external abstract class DedicatedWorkerGlobalScope : WorkerGlobalScope {\r\n   open var onmessage: ((MessageEvent) -> dynamic)?\r\n   fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally): Unit\r\n   fun close(): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SharedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/SharedWorkerGlobalScope) to Kotlin\r\n */\r\npublic external abstract class SharedWorkerGlobalScope : WorkerGlobalScope {\r\n   open val name: String\r\n   open val applicationCache: ApplicationCache\r\n   open var onconnect: ((Event) -> dynamic)?\r\n   fun close(): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [AbstractWorker](https://developer.mozilla.org/en/docs/Web/API/AbstractWorker) to Kotlin\r\n */\r\npublic external interface AbstractWorker {\r\n   var onerror: ((Event) -> dynamic)?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Worker](https://developer.mozilla.org/en/docs/Web/API/Worker) to Kotlin\r\n */\r\npublic external open class Worker(scriptURL: String, options: WorkerOptions = definedExternally) : EventTarget, AbstractWorker {\r\n   var onmessage: ((MessageEvent) -> dynamic)?\r\n   override var onerror: ((Event) -> dynamic)?\r\n   fun terminate(): Unit\r\n   fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally):

Unit\r\n}\r\n\r\npublic external interface WorkerOptions {\r\n var type: WorkerType? /* = WorkerType.CLASSIC */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var credentials: RequestCredentials? /* = RequestCredentials.OMIT */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun WorkerOptions(type: WorkerType? = WorkerType.CLASSIC, credentials: RequestCredentials? = RequestCredentials.OMIT): WorkerOptions {\r\n val o = js(\"({})\")\r\n\r\n o[\"type\"] = type\r\n o[\"credentials\"] = credentials\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SharedWorker](https://developer.mozilla.org/en/docs/Web/API/SharedWorker) to Kotlin\r\n */\r\npublic external open class SharedWorker(scriptURL: String, name: String = definedExternally, options: WorkerOptions = definedExternally) : EventTarget, AbstractWorker {\r\n open val port: MessagePort\r\n override var onerror: ((Event) -> dynamic)?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [NavigatorConcurrentHardware](https://developer.mozilla.org/en/docs/Web/API/NavigatorConcurrentHardware) to Kotlin\r\n */\r\npublic external interface NavigatorConcurrentHardware {\r\n val hardwareConcurrency: Int\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [WorkerNavigator](https://developer.mozilla.org/en/docs/Web/API/WorkerNavigator) to Kotlin\r\n */\r\npublic external abstract class WorkerNavigator : NavigatorID, NavigatorLanguage, NavigatorOnLine, NavigatorConcurrentHardware {\r\n open val serviceWorker: ServiceWorkerContainer\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [WorkerLocation](https://developer.mozilla.org/en/docs/Web/API/WorkerLocation) to Kotlin\r\n */\r\npublic external abstract class WorkerLocation {\r\n open var href: String\r\n open val origin: String\r\n open val protocol: String\r\n open val host: String\r\n open val hostname: String\r\n open val port: String\r\n open val pathname: String\r\n open val search: String\r\n open val hash: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Storage](https://developer.mozilla.org/en/docs/Web/API/Storage) to Kotlin\r\n */\r\npublic external abstract class Storage {\r\n open val length: Int\r\n fun key(index: Int): String?\r\n fun getItem(key: String): String?\r\n fun setItem(key: String, value: String): Unit\r\n fun removeItem(key: String): Unit\r\n fun clear(): Unit\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun Storage.get(key: String): String? = asDynamic()[key]\r\n@kotlin.internal.InlineOnly inline operator fun Storage.set(key: String, value: String): Unit { asDynamic()[key] = value; }\r\n\r\n/**\r\n * Exposes the JavaScript [WindowSessionStorage](https://developer.mozilla.org/en/docs/Web/API/WindowSessionStorage) to Kotlin\r\n */\r\npublic external interface WindowSessionStorage {\r\n val sessionStorage: Storage\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [WindowLocalStorage](https://developer.mozilla.org/en/docs/Web/API/WindowLocalStorage) to Kotlin\r\n */\r\npublic external interface WindowLocalStorage {\r\n val localStorage: Storage\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [StorageEvent](https://developer.mozilla.org/en/docs/Web/API/StorageEvent) to Kotlin\r\n */\r\npublic external open class StorageEvent(type: String, eventInitDict: StorageEventInit = definedExternally) : Event {\r\n open val key: String?\r\n open val oldValue: String?\r\n open val newValue: String?\r\n open val url: String\r\n open val storageArea: Storage?\r\n}\r\n\r\npublic external interface StorageEventInit : EventInit {\r\n var key: String? /* = null */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var oldValue: String? /* = null */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var newValue: String? /* = null */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var url: String? /* = \"\" */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var storageArea: Storage? /* = null */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun StorageEventInit(key: String? = null, oldValue: String? = null, newValue: String? = null, url: String? = \"\", storageArea: Storage? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): StorageEventInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"key\"] = key\r\n o[\"oldValue\"] = oldValue\r\n o[\"newValue\"] = newValue\r\n o[\"url\"] = url\r\n o[\"storageArea\"] = storageArea\r\n o[\"bubbles\"] = bubbles\r\n o[\"cancelable\"] = cancelable\r\n o[\"composed\"] = composed\r\n\r\n return o\r\n}\r\n\r\npublic external abstract class HTMLAppletElement : HTMLElement {\r\n open var align: String\r\n open var alt: String\r\n open var archive: String\r\n open var code: String\r\n open var codeBase: String\r\n open var height: String\r\n open

var hspace: Int\r\n   open var name: String\r\n   open var _object: String\r\n   open var vspace: Int\r\n   open var width: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLMarqueeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMarqueeElement) to Kotlin\r\n */\r\npublic external abstract class HTMLMarqueeElement : HTMLElement {\r\n   open var behavior: String\r\n   open var bgColor: String\r\n   open var direction: String\r\n   open var height: String\r\n   open var hspace: Int\r\n   open var loop: Int\r\n   open var scrollAmount: Int\r\n   open var scrollDelay: Int\r\n   open var trueSpeed: Boolean\r\n   open var vspace: Int\r\n   open var width: String\r\n   open var onbounce: ((Event) -> dynamic)?\r\n   open var onfinish: ((Event) -> dynamic)?\r\n   open var onstart: ((Event) -> dynamic)?\r\n   fun start(): Unit\r\n   fun stop(): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLFrameSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFrameSetElement) to Kotlin\r\n */\r\npublic external abstract class HTMLFrameSetElement : HTMLElement, WindowEventHandlers {\r\n   open var cols: String\r\n   open var rows: String\r\n}\r\n\r\npublic external abstract class HTMLFrameElement : HTMLElement {\r\n   open var name: String\r\n   open var scrolling: String\r\n   open var src: String\r\n   open var frameBorder: String\r\n   open var longDesc: String\r\n   open var noResize: Boolean\r\n   open val contentDocument: Document?\r\n   open val contentWindow: Window?\r\n   open var marginHeight: String\r\n   open var marginWidth: String\r\n}\r\n\r\npublic external abstract class HTMLDirectoryElement : HTMLElement {\r\n   open var compact: Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLFontElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFontElement) to Kotlin\r\n */\r\npublic external abstract class HTMLFontElement : HTMLElement {\r\n   open var color: String\r\n   open var face: String\r\n   open var size: String\r\n}\r\n\r\npublic external interface External {\r\n   fun AddSearchProvider(): Unit\r\n   fun IsSearchProviderInstalled(): Unit\r\n}\r\n\r\npublic external interface EventInit {\r\n   var bubbles: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var cancelable: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var composed: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun EventInit(bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): EventInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"bubbles\"] = bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CustomEvent](https://developer.mozilla.org/en/docs/Web/API/CustomEvent) to Kotlin\r\n */\r\npublic external open class CustomEvent(type: String, eventInitDict: CustomEventInit = definedExternally) : Event {\r\n   open val detail: Any?\r\n   fun initCustomEvent(type: String, bubbles: Boolean, cancelable: Boolean, detail: Any?): Unit\r\n}\r\n\r\npublic external interface CustomEventInit : EventInit {\r\n   var detail: Any? /* = null */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun CustomEventInit(detail: Any? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): CustomEventInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"detail\"] = detail\r\n   o[\"bubbles\"] = bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\npublic external interface EventListenerOptions {\r\n   var capture: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun EventListenerOptions(capture: Boolean? = false): EventListenerOptions {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"capture\"] = capture\r\n\r\n   return o\r\n}\r\n\r\npublic external interface AddEventListenerOptions : EventListenerOptions {\r\n   var passive: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var once: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun AddEventListenerOptions(passive: Boolean? = false, once: Boolean? = false, capture: Boolean? = false): AddEventListenerOptions {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"passive\"] = passive\r\n   o[\"once\"] = once\r\n   o[\"capture\"] = capture\r\n\r\n   return o\r\n}\r\n\r\npublic external interface NonElementParentNode {\r\n   fun getElementById(elementId: String): Element?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [DocumentOrShadowRoot](https://developer.mozilla.org/en/docs/Web/API/DocumentOrShadowRoot) to Kotlin\r\n

*/\r\npublic external interface DocumentOrShadowRoot {\r\n   val fullscreenElement: Element?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ParentNode](https://developer.mozilla.org/en/docs/Web/API/ParentNode) to Kotlin\r\n */\r\npublic external interface ParentNode {\r\n   val children: HTMLCollection\r\n   val firstElementChild: Element?\r\n   val lastElementChild: Element?\r\n   val childElementCount: Int\r\n   fun prepend(vararg nodes: dynamic): Unit\r\n   fun append(vararg nodes: dynamic): Unit\r\n   fun querySelector(selectors: String): Element?\r\n   fun querySelectorAll(selectors: String): NodeList\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [NonDocumentTypeChildNode](https://developer.mozilla.org/en/docs/Web/API/NonDocumentTypeChildNode) to Kotlin\r\n */\r\npublic external interface NonDocumentTypeChildNode {\r\n   val previousElementSibling: Element?\r\n   val nextElementSibling: Element?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ChildNode](https://developer.mozilla.org/en/docs/Web/API/ChildNode) to Kotlin\r\n */\r\npublic external interface ChildNode {\r\n   fun before(vararg nodes: dynamic): Unit\r\n   fun after(vararg nodes: dynamic): Unit\r\n   fun replaceWith(vararg nodes: dynamic): Unit\r\n   fun remove(): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Slotable](https://developer.mozilla.org/en/docs/Web/API/Slotable) to Kotlin\r\n */\r\npublic external interface Slotable {\r\n   val assignedSlot: HTMLSlotElement?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [NodeList](https://developer.mozilla.org/en/docs/Web/API/NodeList) to Kotlin\r\n */\r\npublic external abstract class NodeList : ItemArrayLike<Node> {\r\n   override val length: Int\r\n   override fun item(index: Int): Node?\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun NodeList.get(index: Int): Node? = asDynamic()[index]\r\n\r\n/**\r\n * Exposes the JavaScript [HTMLCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLCollection) to Kotlin\r\n */\r\npublic external abstract class HTMLCollection : UnionElementOrHTMLCollection, ItemArrayLike<Element> {\r\n   override val length: Int\r\n   override fun item(index: Int): Element?\r\n   fun namedItem(name: String): Element?\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun HTMLCollection.get(index: Int): Element? = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun HTMLCollection.get(name: String): Element? = asDynamic()[name]\r\n\r\n/**\r\n * Exposes the JavaScript [MutationObserver](https://developer.mozilla.org/en/docs/Web/API/MutationObserver) to Kotlin\r\n */\r\npublic external open class MutationObserver(callback: (Array<MutationRecord>, MutationObserver) -> Unit) {\r\n   fun observe(target: Node, options: MutationObserverInit = definedExternally): Unit\r\n   fun disconnect(): Unit\r\n   fun takeRecords(): Array<MutationRecord>\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [MutationObserverInit](https://developer.mozilla.org/en/docs/Web/API/MutationObserverInit) to Kotlin\r\n */\r\npublic external interface MutationObserverInit {\r\n   var childList: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var attributes: Boolean?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var characterData: Boolean?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var subtree: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var attributeOldValue: Boolean?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var characterDataOldValue: Boolean?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var attributeFilter: Array<String>?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun MutationObserverInit(childList: Boolean? = false, attributes: Boolean? = undefined, characterData: Boolean? = undefined, subtree: Boolean? = false, attributeOldValue: Boolean? = undefined, characterDataOldValue: Boolean? = undefined, attributeFilter: Array<String>? = undefined): MutationObserverInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"childList\"] = childList\r\n   o[\"attributes\"] = attributes\r\n   o[\"characterData\"] = characterData\r\n   o[\"subtree\"] = subtree\r\n   o[\"attributeOldValue\"] = attributeOldValue\r\n   o[\"characterDataOldValue\"] = characterDataOldValue\r\n   o[\"attributeFilter\"] = attributeFilter\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [MutationRecord](https://developer.mozilla.org/en/docs/Web/API/MutationRecord) to Kotlin\r\n */\r\npublic external abstract class MutationRecord {\r\n   open val type: String\r\n   open val target: Node\r\n   open val addedNodes: NodeList\r\n   open val removedNodes: NodeList\r\n   open val previousSibling: Node?\r\n   open val nextSibling: Node?\r\n   open val attributeName: String?\r\n   open val attributeNamespace: String?\r\n   open val oldValue: String?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript

[Node](https://developer.mozilla.org/en/docs/Web/API/Node) to Kotlin\r\n */\r\npublic external abstract class Node : EventTarget {\r\n open val nodeType: Short\r\n open val nodeName: String\r\n open val baseURI: String\r\n open val isConnected: Boolean\r\n open val ownerDocument: Document?\r\n open val parentNode: Node?\r\n open val parentElement: Element?\r\n open val childNodes: NodeList\r\n open val firstChild: Node?\r\n open val lastChild: Node?\r\n open val previousSibling: Node?\r\n open val nextSibling: Node?\r\n open var nodeValue: String?\r\n open var textContent: String?\r\n fun getRootNode(options: GetRootNodeOptions = definedExternally): Node\r\n fun hasChildNodes(): Boolean\r\n fun normalize(): Unit\r\n fun cloneNode(deep: Boolean = definedExternally): Node\r\n fun isEqualNode(otherNode: Node?): Boolean\r\n fun isSameNode(otherNode: Node?): Boolean\r\n fun compareDocumentPosition(other: Node): Short\r\n fun contains(other: Node?): Boolean\r\n fun lookupPrefix(namespace: String?): String?\r\n fun lookupNamespaceURI(prefix: String?): String?\r\n fun isDefaultNamespace(namespace: String?): Boolean\r\n fun insertBefore(node: Node, child: Node?): Node\r\n fun appendChild(node: Node): Node\r\n fun replaceChild(node: Node, child: Node): Node\r\n fun removeChild(child: Node): Node\r\n\r\n companion object {\r\n val ELEMENT_NODE: Short\r\n val ATTRIBUTE_NODE: Short\r\n val TEXT_NODE: Short\r\n val CDATA_SECTION_NODE: Short\r\n val ENTITY_REFERENCE_NODE: Short\r\n val ENTITY_NODE: Short\r\n val PROCESSING_INSTRUCTION_NODE: Short\r\n val COMMENT_NODE: Short\r\n val DOCUMENT_NODE: Short\r\n val DOCUMENT_TYPE_NODE: Short\r\n val DOCUMENT_FRAGMENT_NODE: Short\r\n val NOTATION_NODE: Short\r\n val DOCUMENT_POSITION_DISCONNECTED: Short\r\n val DOCUMENT_POSITION_PRECEDING: Short\r\n val DOCUMENT_POSITION_FOLLOWING: Short\r\n val DOCUMENT_POSITION_CONTAINS: Short\r\n val DOCUMENT_POSITION_CONTAINED_BY: Short\r\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\r\n }\r\n}\r\n\r\npublic external interface GetRootNodeOptions {\r\n var composed: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun GetRootNodeOptions(composed: Boolean? = false): GetRootNodeOptions {\r\n val o = js(\"({})\")\r\n\r\n o[\"composed\"] = composed\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [XMLDocument](https://developer.mozilla.org/en/docs/Web/API/XMLDocument) to Kotlin\r\n */\r\npublic external open class XMLDocument : Document {\r\n override fun getElementById(elementId: String): Element?\r\n override fun prepend(vararg nodes: dynamic): Unit\r\n override fun append(vararg nodes: dynamic): Unit\r\n override fun querySelector(selectors: String): Element?\r\n override fun querySelectorAll(selectors: String): NodeList\r\n override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\r\n override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\r\n override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\r\n override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\r\n}\r\n\r\npublic external interface ElementCreationOptions {\r\n @JsName(\"is\") var is_: String?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ElementCreationOptions(is_: String? = undefined): ElementCreationOptions {\r\n val o = js(\"({})\")\r\n\r\n o[\"is\"] = is_\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [DOMImplementation](https://developer.mozilla.org/en/docs/Web/API/DOMImplementation) to Kotlin\r\n */\r\npublic external abstract class DOMImplementation {\r\n fun createDocumentType(qualifiedName: String, publicId: String, systemId: String): DocumentType\r\n fun createDocument(namespace: String?, qualifiedName: String, doctype: DocumentType? = definedExternally): XMLDocument\r\n fun createHTMLDocument(title: String = definedExternally): Document\r\n fun hasFeature(): Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [DocumentType](https://developer.mozilla.org/en/docs/Web/API/DocumentType) to Kotlin\r\n */\r\npublic external abstract class DocumentType : Node, ChildNode {\r\n open val name: String\r\n open val publicId: String\r\n open val systemId: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript

[DocumentFragment](https://developer.mozilla.org/en/docs/Web/API/DocumentFragment) to Kotlin\r\n */\r\npublic external open class DocumentFragment : Node, NonElementParentNode, ParentNode {\r\n override val children: HTMLCollection\r\n override val firstElementChild: Element?\r\n override val lastElementChild: Element?\r\n override val childElementCount: Int\r\n override fun getElementById(elementId: String): Element?\r\n override fun prepend(vararg nodes: dynamic): Unit\r\n override fun append(vararg nodes: dynamic): Unit\r\n override fun querySelector(selectors: String): Element?\r\n override fun querySelectorAll(selectors: String): NodeList\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ShadowRoot](https://developer.mozilla.org/en/docs/Web/API/ShadowRoot) to Kotlin\r\n */\r\npublic external open class ShadowRoot : DocumentFragment, DocumentOrShadowRoot {\r\n open val mode: ShadowRootMode\r\n open val host: Element\r\n override val fullscreenElement: Element?\r\n override fun getElementById(elementId: String): Element?\r\n override fun prepend(vararg nodes: dynamic): Unit\r\n override fun append(vararg nodes: dynamic): Unit\r\n override fun querySelector(selectors: String): Element?\r\n override fun querySelectorAll(selectors: String): NodeList\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Element](https://developer.mozilla.org/en/docs/Web/API/Element) to Kotlin\r\n */\r\npublic external abstract class Element : Node, ParentNode, NonDocumentTypeChildNode, ChildNode, Slotable, GeometryUtils, UnionElementOrProcessingInstruction, UnionElementOrHTMLCollection, UnionElementOrRadioNodeList, UnionElementOrMouseEvent {\r\n open var innerHTML: String\r\n open var outerHTML: String\r\n open val namespaceURI: String?\r\n open val prefix: String?\r\n open val localName: String\r\n open val tagName: String\r\n open var id: String\r\n open var className: String\r\n open val classList: DOMTokenList\r\n open var slot: String\r\n open val attributes: NamedNodeMap\r\n open val shadowRoot: ShadowRoot?\r\n open var scrollTop: Double\r\n open var scrollLeft: Double\r\n open val scrollWidth: Int\r\n open val scrollHeight: Int\r\n open val clientTop: Int\r\n open val clientLeft: Int\r\n open val clientWidth: Int\r\n open val clientHeight: Int\r\n fun requestFullscreen(): Promise<Unit>\r\n fun setPointerCapture(pointerId: Int): Unit\r\n fun releasePointerCapture(pointerId: Int): Unit\r\n fun hasPointerCapture(pointerId: Int): Boolean\r\n fun insertAdjacentHTML(position: String, text: String): Unit\r\n fun hasAttributes(): Boolean\r\n fun getAttributeNames(): Array<String>\r\n fun getAttribute(qualifiedName: String): String?\r\n fun getAttributeNS(namespace: String?, localName: String): String?\r\n fun setAttribute(qualifiedName: String, value: String): Unit\r\n fun setAttributeNS(namespace: String?, qualifiedName: String, value: String): Unit\r\n fun removeAttribute(qualifiedName: String): Unit\r\n fun removeAttributeNS(namespace: String?, localName: String): Unit\r\n fun hasAttribute(qualifiedName: String): Boolean\r\n fun hasAttributeNS(namespace: String?, localName: String): Boolean\r\n fun getAttributeNode(qualifiedName: String): Attr?\r\n fun getAttributeNodeNS(namespace: String?, localName: String): Attr?\r\n fun setAttributeNode(attr: Attr): Attr?\r\n fun setAttributeNodeNS(attr: Attr): Attr?\r\n fun removeAttributeNode(attr: Attr): Attr\r\n fun attachShadow(init: ShadowRootInit): ShadowRoot\r\n fun closest(selectors: String): Element?\r\n fun matches(selectors: String): Boolean\r\n fun webkitMatchesSelector(selectors: String): Boolean\r\n fun getElementsByTagName(qualifiedName: String): HTMLCollection\r\n fun getElementsByTagNameNS(namespace: String?, localName: String): HTMLCollection\r\n fun getElementsByClassName(classNames: String): HTMLCollection\r\n fun insertAdjacentElement(where: String, element: Element): Element?\r\n fun insertAdjacentText(where: String, data: String): Unit\r\n fun getClientRects(): Array<DOMRect>\r\n fun getBoundingClientRect(): DOMRect\r\n fun scrollIntoView(): Unit\r\n fun scrollIntoView(arg: dynamic): Unit\r\n fun scroll(options: ScrollToOptions = definedExternally): Unit\r\n fun scroll(x: Double, y: Double): Unit\r\n fun scrollTo(options: ScrollToOptions = definedExternally): Unit\r\n fun scrollTo(x: Double, y: Double): Unit\r\n fun scrollBy(options: ScrollToOptions = definedExternally): Unit\r\n fun scrollBy(x: Double, y: Double): Unit\r\n}\r\n\r\npublic external interface ShadowRootInit {\r\n var mode: ShadowRootMode?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ShadowRootInit(mode: ShadowRootMode?): ShadowRootInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"mode\"] = mode\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript

[NamedNodeMap](https://developer.mozilla.org/en/docs/Web/API/NamedNodeMap) to Kotlin\r\n */\r\npublic external abstract class NamedNodeMap : ItemArrayLike<Attr> {\r\n override val length: Int\r\n override fun item(index: Int): Attr?\r\n fun getNamedItem(qualifiedName: String): Attr?\r\n fun getNamedItemNS(namespace: String?, localName: String): Attr?\r\n fun setNamedItem(attr: Attr): Attr?\r\n fun setNamedItemNS(attr: Attr): Attr?\r\n fun removeNamedItem(qualifiedName: String): Attr\r\n fun removeNamedItemNS(namespace: String?, localName: String): Attr\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun NamedNodeMap.get(index: Int): Attr? = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun NamedNodeMap.get(qualifiedName: String): Attr? = asDynamic()[qualifiedName]\r\n\r\n/**\r\n * Exposes the JavaScript [Attr](https://developer.mozilla.org/en/docs/Web/API/Attr) to Kotlin\r\n */\r\npublic external abstract class Attr : Node {\r\n open val namespaceURI: String?\r\n open val prefix: String?\r\n open val localName: String\r\n open val name: String\r\n open var value: String\r\n open val ownerElement: Element?\r\n open val specified: Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CharacterData](https://developer.mozilla.org/en/docs/Web/API/CharacterData) to Kotlin\r\n */\r\npublic external abstract class CharacterData : Node, NonDocumentTypeChildNode, ChildNode {\r\n open var data: String\r\n open val length: Int\r\n fun substringData(offset: Int, count: Int): String\r\n fun appendData(data: String): Unit\r\n fun insertData(offset: Int, data: String): Unit\r\n fun deleteData(offset: Int, count: Int): Unit\r\n fun replaceData(offset: Int, count: Int, data: String): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Text](https://developer.mozilla.org/en/docs/Web/API/Text) to Kotlin\r\n */\r\npublic external open class Text(data: String = definedExternally) : CharacterData, Slotable, GeometryUtils {\r\n open val wholeText: String\r\n override val previousElementSibling: Element?\r\n override val nextElementSibling: Element?\r\n override val assignedSlot: HTMLSlotElement?\r\n fun splitText(offset: Int): Text\r\n override fun before(vararg nodes: dynamic): Unit\r\n override fun after(vararg nodes: dynamic): Unit\r\n override fun replaceWith(vararg nodes: dynamic): Unit\r\n override fun remove(): Unit\r\n override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\r\n override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\r\n override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\r\n override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CDATASection](https://developer.mozilla.org/en/docs/Web/API/CDATASection) to Kotlin\r\n */\r\npublic external open class CDATASection : Text {\r\n override fun before(vararg nodes: dynamic): Unit\r\n override fun after(vararg nodes: dynamic): Unit\r\n override fun replaceWith(vararg nodes: dynamic): Unit\r\n override fun remove(): Unit\r\n override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\r\n override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\r\n override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\r\n override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ProcessingInstruction](https://developer.mozilla.org/en/docs/Web/API/ProcessingInstruction) to Kotlin\r\n */\r\npublic external abstract class ProcessingInstruction : CharacterData, LinkStyle, UnionElementOrProcessingInstruction {\r\n open val target: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Comment](https://developer.mozilla.org/en/docs/Web/API/Comment) to Kotlin\r\n */\r\npublic external open class Comment(data: String = definedExternally) : CharacterData {\r\n override val previousElementSibling: Element?\r\n override val nextElementSibling: Element?\r\n override fun before(vararg nodes: dynamic): Unit\r\n override fun after(vararg nodes: dynamic): Unit\r\n override fun replaceWith(vararg nodes: dynamic): Unit\r\n override fun remove(): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Range](https://developer.mozilla.org/en/docs/Web/API/Range) to Kotlin\r\n */\r\npublic external open class Range {\r\n open val startContainer: Node\r\n open val startOffset: Int\r\n open val endContainer: Node\r\n open val endOffset: Int\r\n open val collapsed: Boolean\r\n open val commonAncestorContainer: Node\r\n fun

createContextualFragment(fragment: String): DocumentFragment\r\n fun setStart(node: Node, offset: Int): Unit\r\n fun setEnd(node: Node, offset: Int): Unit\r\n fun setStartBefore(node: Node): Unit\r\n fun setStartAfter(node: Node): Unit\r\n fun setEndBefore(node: Node): Unit\r\n fun setEndAfter(node: Node): Unit\r\n fun collapse(toStart: Boolean = definedExternally): Unit\r\n fun selectNode(node: Node): Unit\r\n fun selectNodeContents(node: Node): Unit\r\n fun compareBoundaryPoints(how: Short, sourceRange: Range): Short\r\n fun deleteContents(): Unit\r\n fun extractContents(): DocumentFragment\r\n fun cloneContents(): DocumentFragment\r\n fun insertNode(node: Node): Unit\r\n fun surroundContents(newParent: Node): Unit\r\n fun cloneRange(): Range\r\n fun detach(): Unit\r\n fun isPointInRange(node: Node, offset: Int): Boolean\r\n fun comparePoint(node: Node, offset: Int): Short\r\n fun intersectsNode(node: Node): Boolean\r\n fun getClientRects(): Array<DOMRect>\r\n fun getBoundingClientRect(): DOMRect\r\n\r\n companion object {\r\n val START_TO_START: Short\r\n val START_TO_END: Short\r\n val END_TO_END: Short\r\n val END_TO_START: Short\r\n }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [NodeIterator](https://developer.mozilla.org/en/docs/Web/API/NodeIterator) to Kotlin\r\n */\r\npublic external abstract class NodeIterator {\r\n open val root: Node\r\n open val referenceNode: Node\r\n open val pointerBeforeReferenceNode: Boolean\r\n open val whatToShow: Int\r\n open val filter: NodeFilter?\r\n fun nextNode(): Node?\r\n fun previousNode(): Node?\r\n fun detach(): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [TreeWalker](https://developer.mozilla.org/en/docs/Web/API/TreeWalker) to Kotlin\r\n */\r\npublic external abstract class TreeWalker {\r\n open val root: Node\r\n open val whatToShow: Int\r\n open val filter: NodeFilter?\r\n open var currentNode: Node\r\n fun parentNode(): Node?\r\n fun firstChild(): Node?\r\n fun lastChild(): Node?\r\n fun previousSibling(): Node?\r\n fun nextSibling(): Node?\r\n fun previousNode(): Node?\r\n fun nextNode(): Node?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [NodeFilter](https://developer.mozilla.org/en/docs/Web/API/NodeFilter) to Kotlin\r\n */\r\npublic external interface NodeFilter {\r\n fun acceptNode(node: Node): Short\r\n\r\n companion object {\r\n val FILTER_ACCEPT: Short\r\n val FILTER_REJECT: Short\r\n val FILTER_SKIP: Short\r\n val SHOW_ALL: Int\r\n val SHOW_ELEMENT: Int\r\n val SHOW_ATTRIBUTE: Int\r\n val SHOW_TEXT: Int\r\n val SHOW_CDATA_SECTION: Int\r\n val SHOW_ENTITY_REFERENCE: Int\r\n val SHOW_ENTITY: Int\r\n val SHOW_PROCESSING_INSTRUCTION: Int\r\n val SHOW_COMMENT: Int\r\n val SHOW_DOCUMENT: Int\r\n val SHOW_DOCUMENT_TYPE: Int\r\n val SHOW_DOCUMENT_FRAGMENT: Int\r\n val SHOW_NOTATION: Int\r\n }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [DOMTokenList](https://developer.mozilla.org/en/docs/Web/API/DOMTokenList) to Kotlin\r\n */\r\npublic external abstract class DOMTokenList : ItemArrayLike<String> {\r\n override val length: Int\r\n open var value: String\r\n override fun item(index: Int): String?\r\n fun contains(token: String): Boolean\r\n fun add(vararg tokens: String): Unit\r\n fun remove(vararg tokens: String): Unit\r\n fun toggle(token: String, force: Boolean = definedExternally): Boolean\r\n fun replace(token: String, newToken: String): Unit\r\n fun supports(token: String): Boolean\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun DOMTokenList.get(index: Int): String? = asDynamic()[index]\r\n\r\n/**\r\n * Exposes the JavaScript [DOMPointReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMPointReadOnly) to Kotlin\r\n */\r\npublic external open class DOMPointReadOnly(x: Double, y: Double, z: Double, w: Double) {\r\n open val x: Double\r\n open val y: Double\r\n open val z: Double\r\n open val w: Double\r\n fun matrixTransform(matrix: DOMMatrixReadOnly): DOMPoint\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [DOMPoint](https://developer.mozilla.org/en/docs/Web/API/DOMPoint) to Kotlin\r\n */\r\npublic external open class DOMPoint : DOMPointReadOnly {\r\n constructor(point: DOMPointInit)\r\n constructor(x: Double = definedExternally, y: Double = definedExternally, z: Double = definedExternally, w: Double = definedExternally)\r\n override var x: Double\r\n override var y: Double\r\n override var z: Double\r\n override var w: Double\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [DOMPointInit](https://developer.mozilla.org/en/docs/Web/API/DOMPointInit) to Kotlin\r\n */\r\npublic external interface DOMPointInit {\r\n var x: Double? /* = 0.0 */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var y: Double? /* = 0.0 */\r\n get() = definedExternally\r\n set(value) =

definedExternally\r\n   var z: Double? /* = 0.0 */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var w: Double? /* = 1.0 */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun DOMPointInit(x: Double? = 0.0, y: Double? = 0.0, z: Double? = 0.0, w: Double? = 1.0): DOMPointInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"x\"] = x\r\n   o[\"y\"] = y\r\n   o[\"z\"] = z\r\n   o[\"w\"] = w\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [DOMRect](https://developer.mozilla.org/en/docs/Web/API/DOMRect) to Kotlin\r\n */\r\npublic external open class DOMRect(x: Double = definedExternally, y: Double = definedExternally, width: Double = definedExternally, height: Double = definedExternally) : DOMRectReadOnly {\r\n   override var x: Double\r\n   override var y: Double\r\n   override var width: Double\r\n   override var height: Double\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [DOMRectReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMRectReadOnly) to Kotlin\r\n */\r\npublic external open class DOMRectReadOnly(x: Double, y: Double, width: Double, height: Double) {\r\n   open val x: Double\r\n   open val y: Double\r\n   open val width: Double\r\n   open val height: Double\r\n   open val top: Double\r\n   open val right: Double\r\n   open val bottom: Double\r\n   open val left: Double\r\n}\r\n\r\npublic external interface DOMRectInit {\r\n   var x: Double? /* = 0.0 */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var y: Double? /* = 0.0 */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var width: Double? /* = 0.0 */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var height: Double? /* = 0.0 */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun DOMRectInit(x: Double? = 0.0, y: Double? = 0.0, width: Double? = 0.0, height: Double? = 0.0): DOMRectInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"x\"] = x\r\n   o[\"y\"] = y\r\n   o[\"width\"] = width\r\n   o[\"height\"] = height\r\n\r\n   return o\r\n}\r\n\r\npublic external interface DOMRectList : ItemArrayLike<DOMRect> {\r\n   override fun item(index: Int): DOMRect?\r\n}\r\n\r\n@kotlin.internal.InlineOnly inline operator fun DOMRectList.get(index: Int): DOMRect? = asDynamic()[index]\r\n\r\n/**\r\n * Exposes the JavaScript [DOMQuad](https://developer.mozilla.org/en/docs/Web/API/DOMQuad) to Kotlin\r\n */\r\npublic external open class DOMQuad {\r\n   constructor(p1: DOMPointInit = definedExternally, p2: DOMPointInit = definedExternally, p3: DOMPointInit = definedExternally, p4: DOMPointInit = definedExternally)\r\n   constructor(rect: DOMRectInit)\r\n   open val p1: DOMPoint\r\n   open val p2: DOMPoint\r\n   open val p3: DOMPoint\r\n   open val p4: DOMPoint\r\n   open val bounds: DOMRectReadOnly\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [DOMMatrixReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMMatrixReadOnly) to Kotlin\r\n */\r\npublic external open class DOMMatrixReadOnly(numberSequence: Array<Double>) {\r\n   open val a: Double\r\n   open val b: Double\r\n   open val c: Double\r\n   open val d: Double\r\n   open val e: Double\r\n   open val f: Double\r\n   open val m11: Double\r\n   open val m12: Double\r\n   open val m13: Double\r\n   open val m14: Double\r\n   open val m21: Double\r\n   open val m22: Double\r\n   open val m23: Double\r\n   open val m24: Double\r\n   open val m31: Double\r\n   open val m32: Double\r\n   open val m33: Double\r\n   open val m34: Double\r\n   open val m41: Double\r\n   open val m42: Double\r\n   open val m43: Double\r\n   open val m44: Double\r\n   open val is2D: Boolean\r\n   open val isIdentity: Boolean\r\n   fun translate(tx: Double, ty: Double, tz: Double = definedExternally): DOMMatrix\r\n   fun scale(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\r\n   fun scale3d(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix\r\n   fun scaleNonUniform(scaleX: Double, scaleY: Double = definedExternally, scaleZ: Double = definedExternally, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix\r\n   fun rotate(angle: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\r\n   fun rotateFromVector(x: Double, y: Double): DOMMatrix\r\n   fun rotateAxisAngle(x: Double, y: Double, z: Double, angle: Double): DOMMatrix\r\n   fun skewX(sx: Double): DOMMatrix\r\n   fun skewY(sy: Double): DOMMatrix\r\n   fun multiply(other: DOMMatrix): DOMMatrix\r\n   fun flipX(): DOMMatrix\r\n   fun flipY(): DOMMatrix\r\n   fun inverse(): DOMMatrix\r\n   fun transformPoint(point: DOMPointInit = definedExternally): DOMPoint\r\n   fun toFloat32Array(): Float32Array\r\n   fun toFloat64Array(): Float64Array\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript

[DOMMatrix](https://developer.mozilla.org/en/docs/Web/API/DOMMatrix) to Kotlin\r\n */\r\npublic external open class DOMMatrix() : DOMMatrixReadOnly {\r\n constructor(transformList: String)\r\n constructor(other: DOMMatrixReadOnly)\r\n constructor(array32: Float32Array)\r\n constructor(array64: Float64Array)\r\n constructor(numberSequence: Array<Double>)\r\n override var a: Double\r\n override var b: Double\r\n override var c: Double\r\n override var d: Double\r\n override var e: Double\r\n override var f: Double\r\n override var m11: Double\r\n override var m12: Double\r\n override var m13: Double\r\n override var m14: Double\r\n override var m21: Double\r\n override var m22: Double\r\n override var m23: Double\r\n override var m24: Double\r\n override var m31: Double\r\n override var m32: Double\r\n override var m33: Double\r\n override var m34: Double\r\n override var m41: Double\r\n override var m42: Double\r\n override var m43: Double\r\n override var m44: Double\r\n fun multiplySelf(other: DOMMatrix): DOMMatrix\r\n fun preMultiplySelf(other: DOMMatrix): DOMMatrix\r\n fun translateSelf(tx: Double, ty: Double, tz: Double = definedExternally): DOMMatrix\r\n fun scaleSelf(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\r\n fun scale3dSelf(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix\r\n fun scaleNonUniformSelf(scaleX: Double, scaleY: Double = definedExternally, scaleZ: Double = definedExternally, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix\r\n fun rotateSelf(angle: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\r\n fun rotateFromVectorSelf(x: Double, y: Double): DOMMatrix\r\n fun rotateAxisAngleSelf(x: Double, y: Double, z: Double, angle: Double): DOMMatrix\r\n fun skewXSelf(sx: Double): DOMMatrix\r\n fun skewYSelf(sy: Double): DOMMatrix\r\n fun invertSelf(): DOMMatrix\r\n fun setMatrixValue(transformList: String): DOMMatrix\r\n}\r\n\r\npublic external interface ScrollOptions {\r\n var behavior: ScrollBehavior? /* = ScrollBehavior.AUTO */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ScrollOptions(behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollOptions {\r\n val o = js(\"({})\")\r\n\r\n o[\"behavior\"] = behavior\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ScrollToOptions](https://developer.mozilla.org/en/docs/Web/API/ScrollToOptions) to Kotlin\r\n */\r\npublic external interface ScrollToOptions : ScrollOptions {\r\n var left: Double?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var top: Double?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ScrollToOptions(left: Double? = undefined, top: Double? = undefined, behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollToOptions {\r\n val o = js(\"({})\")\r\n\r\n o[\"left\"] = left\r\n o[\"top\"] = top\r\n o[\"behavior\"] = behavior\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [MediaQueryList](https://developer.mozilla.org/en/docs/Web/API/MediaQueryList) to Kotlin\r\n */\r\npublic external abstract class MediaQueryList : EventTarget {\r\n open val media: String\r\n open val matches: Boolean\r\n open var onchange: ((Event) -> dynamic)?\r\n fun addListener(listener: EventListener?): Unit\r\n fun addListener(listener: ((Event) -> Unit)?): Unit\r\n fun removeListener(listener: EventListener?): Unit\r\n fun removeListener(listener: ((Event) -> Unit)?): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [MediaQueryListEvent](https://developer.mozilla.org/en/docs/Web/API/MediaQueryListEvent) to Kotlin\r\n */\r\npublic external open class MediaQueryListEvent(type: String, eventInitDict: MediaQueryListEventInit = definedExternally) : Event {\r\n open val media: String\r\n open val matches: Boolean\r\n}\r\n\r\npublic external interface MediaQueryListEventInit : EventInit {\r\n var media: String? /* = \"\" */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var matches: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun MediaQueryListEventInit(media: String? = \"\", matches: Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): MediaQueryListEventInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"media\"] = media\r\n o[\"matches\"] = matches\r\n o[\"bubbles\"] = bubbles\r\n o[\"cancelable\"] = cancelable\r\n o[\"composed\"] = composed\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Screen](https://developer.mozilla.org/en/docs/Web/API/Screen) to Kotlin\r\n */\r\npublic external abstract class

Screen {\r\n   open val availWidth: Int\r\n   open val availHeight: Int\r\n   open val width: Int\r\n   open val height: Int\r\n   open val colorDepth: Int\r\n   open val pixelDepth: Int\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CaretPosition](https://developer.mozilla.org/en/docs/Web/API/CaretPosition) to Kotlin\r\n */\r\npublic external abstract class CaretPosition {\r\n   open val offsetNode: Node\r\n   open val offset: Int\r\n   fun getClientRect(): DOMRect?\r\n}\r\n\r\n\r\npublic external interface ScrollIntoViewOptions : ScrollOptions {\r\n   var block: ScrollLogicalPosition? /* = ScrollLogicalPosition.CENTER */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var inline: ScrollLogicalPosition? /* = ScrollLogicalPosition.CENTER */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ScrollIntoViewOptions(block: ScrollLogicalPosition? = ScrollLogicalPosition.CENTER, inline: ScrollLogicalPosition? = ScrollLogicalPosition.CENTER, behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollIntoViewOptions {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"block\"] = block\r\n   o[\"inline\"] = inline\r\n   o[\"behavior\"] = behavior\r\n\r\n\r\n   return o\r\n}\r\n\r\npublic external interface BoxQuadOptions {\r\n   var box: CSSBoxType? /* = CSSBoxType.BORDER */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var relativeTo: dynamic\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun BoxQuadOptions(box: CSSBoxType? = CSSBoxType.BORDER, relativeTo: dynamic = undefined): BoxQuadOptions {\r\n   val o = js(\"({})\")\r\n\r\n\r\n   o[\"box\"] = box\r\n   o[\"relativeTo\"] = relativeTo\r\n\r\n\r\n   return o\r\n}\r\n\r\npublic external interface ConvertCoordinateOptions {\r\n   var fromBox: CSSBoxType? /* = CSSBoxType.BORDER */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var toBox: CSSBoxType? /* = CSSBoxType.BORDER */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ConvertCoordinateOptions(fromBox: CSSBoxType? = CSSBoxType.BORDER, toBox: CSSBoxType? = CSSBoxType.BORDER): ConvertCoordinateOptions {\r\n   val o = js(\"({})\")\r\n\r\n\r\n   o[\"fromBox\"] = fromBox\r\n   o[\"toBox\"] = toBox\r\n\r\n\r\n   return o\r\n}\r\n\r\n\r\n/**\r\n * Exposes the JavaScript [GeometryUtils](https://developer.mozilla.org/en/docs/Web/API/GeometryUtils) to Kotlin\r\n */\r\npublic external interface GeometryUtils {\r\n   fun getBoxQuads(options: BoxQuadOptions = definedExternally): Array<DOMQuad>\r\n   fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions = definedExternally): DOMQuad\r\n   fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions = definedExternally): DOMQuad\r\n   fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions = definedExternally): DOMPoint\r\n}\r\n\r\n\r\npublic external @marker interface UnionElementOrProcessingInstruction {\r\n}\r\n\r\n\r\npublic external @marker interface UnionElementOrHTMLCollection {\r\n}\r\n\r\n\r\npublic external @marker interface UnionElementOrRadioNodeList {\r\n}\r\n\r\n\r\npublic external @marker interface UnionHTMLOptGroupElementOrHTMLOptionElement {\r\n}\r\n\r\n\r\npublic external @marker interface UnionAudioTrackOrTextTrackOrVideoTrack {\r\n}\r\n\r\n\r\npublic external @marker interface UnionElementOrMouseEvent {\r\n}\r\n\r\n\r\npublic external @marker interface UnionMessagePortOrWindow {\r\n}\r\n\r\n\r\npublic external @marker interface UnionMessagePortOrServiceWorker {\r\n}\r\n\r\n\r\npublic external @marker interface HTMLOrSVGScriptElement {\r\n}\r\n\r\n\r\npublic external @marker interface RenderingContext {\r\n}\r\n\r\n\r\npublic external @marker interface HTMLOrSVGImageElement {\r\n}\r\n\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface DocumentReadyState {\r\n   companion object\r\n}\r\n\r\npublic inline val DocumentReadyState.Companion.LOADING: DocumentReadyState get() = \"loading\".asDynamic().unsafeCast<DocumentReadyState>()\r\npublic inline val DocumentReadyState.Companion.INTERACTIVE: DocumentReadyState get() = \"interactive\".asDynamic().unsafeCast<DocumentReadyState>()\r\npublic inline val DocumentReadyState.Companion.COMPLETE: DocumentReadyState get() = \"complete\".asDynamic().unsafeCast<DocumentReadyState>()\r\n\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface CanPlayTypeResult {\r\n   companion object\r\n}\r\n\r\npublic inline val CanPlayTypeResult.Companion.EMPTY: CanPlayTypeResult get() =

\"\".asDynamic().unsafeCast<CanPlayTypeResult>()\r\npublic inline val CanPlayTypeResult.Companion.MAYBE: CanPlayTypeResult get() = \"maybe\".asDynamic().unsafeCast<CanPlayTypeResult>()\r\npublic inline val CanPlayTypeResult.Companion.PROBABLY: CanPlayTypeResult get() = \"probably\".asDynamic().unsafeCast<CanPlayTypeResult>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface TextTrackMode {\r\n   companion object\r\n}\r\npublic inline val TextTrackMode.Companion.DISABLED: TextTrackMode get() = \"disabled\".asDynamic().unsafeCast<TextTrackMode>()\r\npublic inline val TextTrackMode.Companion.HIDDEN: TextTrackMode get() = \"hidden\".asDynamic().unsafeCast<TextTrackMode>()\r\npublic inline val TextTrackMode.Companion.SHOWING: TextTrackMode get() = \"showing\".asDynamic().unsafeCast<TextTrackMode>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface TextTrackKind {\r\n   companion object\r\n}\r\npublic inline val TextTrackKind.Companion.SUBTITLES: TextTrackKind get() = \"subtitles\".asDynamic().unsafeCast<TextTrackKind>()\r\npublic inline val TextTrackKind.Companion.CAPTIONS: TextTrackKind get() = \"captions\".asDynamic().unsafeCast<TextTrackKind>()\r\npublic inline val TextTrackKind.Companion.DESCRIPTIONS: TextTrackKind get() = \"descriptions\".asDynamic().unsafeCast<TextTrackKind>()\r\npublic inline val TextTrackKind.Companion.CHAPTERS: TextTrackKind get() = \"chapters\".asDynamic().unsafeCast<TextTrackKind>()\r\npublic inline val TextTrackKind.Companion.METADATA: TextTrackKind get() = \"metadata\".asDynamic().unsafeCast<TextTrackKind>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface SelectionMode {\r\n   companion object\r\n}\r\npublic inline val SelectionMode.Companion.SELECT: SelectionMode get() = \"select\".asDynamic().unsafeCast<SelectionMode>()\r\npublic inline val SelectionMode.Companion.START: SelectionMode get() = \"start\".asDynamic().unsafeCast<SelectionMode>()\r\npublic inline val SelectionMode.Companion.END: SelectionMode get() = \"end\".asDynamic().unsafeCast<SelectionMode>()\r\npublic inline val SelectionMode.Companion.PRESERVE: SelectionMode get() = \"preserve\".asDynamic().unsafeCast<SelectionMode>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface CanvasFillRule {\r\n   companion object\r\n}\r\npublic inline val CanvasFillRule.Companion.NONZERO: CanvasFillRule get() = \"nonzero\".asDynamic().unsafeCast<CanvasFillRule>()\r\npublic inline val CanvasFillRule.Companion.EVENODD: CanvasFillRule get() = \"evenodd\".asDynamic().unsafeCast<CanvasFillRule>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface ImageSmoothingQuality {\r\n   companion object\r\n}\r\npublic inline val ImageSmoothingQuality.Companion.LOW: ImageSmoothingQuality get() = \"low\".asDynamic().unsafeCast<ImageSmoothingQuality>()\r\npublic inline val ImageSmoothingQuality.Companion.MEDIUM: ImageSmoothingQuality get() = \"medium\".asDynamic().unsafeCast<ImageSmoothingQuality>()\r\npublic inline val ImageSmoothingQuality.Companion.HIGH: ImageSmoothingQuality get() = \"high\".asDynamic().unsafeCast<ImageSmoothingQuality>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface CanvasLineCap {\r\n   companion object\r\n}\r\npublic inline val CanvasLineCap.Companion.BUTT: CanvasLineCap get() = \"butt\".asDynamic().unsafeCast<CanvasLineCap>()\r\npublic inline val CanvasLineCap.Companion.ROUND: CanvasLineCap get() = \"round\".asDynamic().unsafeCast<CanvasLineCap>()\r\npublic inline val CanvasLineCap.Companion.SQUARE: CanvasLineCap get() = \"square\".asDynamic().unsafeCast<CanvasLineCap>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface CanvasLineJoin {\r\n   companion object\r\n}\r\npublic inline val

CanvasLineJoin.Companion.ROUND: CanvasLineJoin get() =
\"round\".asDynamic().unsafeCast<CanvasLineJoin>()\r\npublic inline val CanvasLineJoin.Companion.BEVEL:
CanvasLineJoin get() = \"bevel\".asDynamic().unsafeCast<CanvasLineJoin>()\r\npublic inline val
CanvasLineJoin.Companion.MITER: CanvasLineJoin get() =
\"miter\".asDynamic().unsafeCast<CanvasLineJoin>()\r\n\r\n/* please, don't implement this interface! */\r\npublic
external interface CanvasTextAlign {\r\n   companion object\r\n}\r\npublic inline val
CanvasTextAlign.Companion.START: CanvasTextAlign get() =
\"start\".asDynamic().unsafeCast<CanvasTextAlign>()\r\npublic inline val CanvasTextAlign.Companion.END:
CanvasTextAlign get() = \"end\".asDynamic().unsafeCast<CanvasTextAlign>()\r\npublic inline val
CanvasTextAlign.Companion.LEFT: CanvasTextAlign get() =
\"left\".asDynamic().unsafeCast<CanvasTextAlign>()\r\npublic inline val CanvasTextAlign.Companion.RIGHT:
CanvasTextAlign get() = \"right\".asDynamic().unsafeCast<CanvasTextAlign>()\r\npublic inline val
CanvasTextAlign.Companion.CENTER: CanvasTextAlign get() =
\"center\".asDynamic().unsafeCast<CanvasTextAlign>()\r\n\r\n/* please, don't implement this interface! */\r\npublic
external interface CanvasTextBaseline {\r\n   companion object\r\n}\r\npublic inline val
CanvasTextBaseline.Companion.TOP: CanvasTextBaseline get() =
\"top\".asDynamic().unsafeCast<CanvasTextBaseline>()\r\npublic inline val
CanvasTextBaseline.Companion.HANGING: CanvasTextBaseline get() =
\"hanging\".asDynamic().unsafeCast<CanvasTextBaseline>()\r\npublic inline val
CanvasTextBaseline.Companion.MIDDLE: CanvasTextBaseline get() =
\"middle\".asDynamic().unsafeCast<CanvasTextBaseline>()\r\npublic inline val
CanvasTextBaseline.Companion.ALPHABETIC: CanvasTextBaseline get() =
\"alphabetic\".asDynamic().unsafeCast<CanvasTextBaseline>()\r\npublic inline val
CanvasTextBaseline.Companion.IDEOGRAPHIC: CanvasTextBaseline get() =
\"ideographic\".asDynamic().unsafeCast<CanvasTextBaseline>()\r\npublic inline val
CanvasTextBaseline.Companion.BOTTOM: CanvasTextBaseline get() =
\"bottom\".asDynamic().unsafeCast<CanvasTextBaseline>()\r\n\r\n/* please, don't implement this interface!
*/\r\npublic external interface CanvasDirection {\r\n   companion object\r\n}\r\npublic inline val
CanvasDirection.Companion.LTR: CanvasDirection get() =
\"ltr\".asDynamic().unsafeCast<CanvasDirection>()\r\npublic inline val CanvasDirection.Companion.RTL:
CanvasDirection get() = \"rtl\".asDynamic().unsafeCast<CanvasDirection>()\r\npublic inline val
CanvasDirection.Companion.INHERIT: CanvasDirection get() =
\"inherit\".asDynamic().unsafeCast<CanvasDirection>()\r\n\r\n/* please, don't implement this interface! */\r\npublic
external interface ScrollRestoration {\r\n   companion object\r\n}\r\npublic inline val
ScrollRestoration.Companion.AUTO: ScrollRestoration get() =
\"auto\".asDynamic().unsafeCast<ScrollRestoration>()\r\npublic inline val
ScrollRestoration.Companion.MANUAL: ScrollRestoration get() =
\"manual\".asDynamic().unsafeCast<ScrollRestoration>()\r\n\r\n/* please, don't implement this interface!
*/\r\npublic external interface ImageOrientation {\r\n   companion object\r\n}\r\npublic inline val
ImageOrientation.Companion.NONE: ImageOrientation get() =
\"none\".asDynamic().unsafeCast<ImageOrientation>()\r\npublic inline val ImageOrientation.Companion.FLIPY:
ImageOrientation get() = \"flipY\".asDynamic().unsafeCast<ImageOrientation>()\r\n\r\n/* please, don't implement
this interface! */\r\npublic external interface PremultiplyAlpha {\r\n   companion object\r\n}\r\npublic inline val
PremultiplyAlpha.Companion.NONE: PremultiplyAlpha get() =
\"none\".asDynamic().unsafeCast<PremultiplyAlpha>()\r\npublic inline val
PremultiplyAlpha.Companion.PREMULTIPLY: PremultiplyAlpha get() =
\"premultiply\".asDynamic().unsafeCast<PremultiplyAlpha>()\r\npublic inline val
PremultiplyAlpha.Companion.DEFAULT: PremultiplyAlpha get() =

\"default\".asDynamic().unsafeCast<PremultiplyAlpha>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface ColorSpaceConversion {\r\n   companion object\r\n}\r\npublic inline val ColorSpaceConversion.Companion.NONE: ColorSpaceConversion get() = \"none\".asDynamic().unsafeCast<ColorSpaceConversion>()\r\npublic inline val ColorSpaceConversion.Companion.DEFAULT: ColorSpaceConversion get() = \"default\".asDynamic().unsafeCast<ColorSpaceConversion>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface ResizeQuality {\r\n   companion object\r\n}\r\npublic inline val ResizeQuality.Companion.PIXELATED: ResizeQuality get() = \"pixelated\".asDynamic().unsafeCast<ResizeQuality>()\r\npublic inline val ResizeQuality.Companion.LOW: ResizeQuality get() = \"low\".asDynamic().unsafeCast<ResizeQuality>()\r\npublic inline val ResizeQuality.Companion.MEDIUM: ResizeQuality get() = \"medium\".asDynamic().unsafeCast<ResizeQuality>()\r\npublic inline val ResizeQuality.Companion.HIGH: ResizeQuality get() = \"high\".asDynamic().unsafeCast<ResizeQuality>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface BinaryType {\r\n   companion object\r\n}\r\npublic inline val BinaryType.Companion.BLOB: BinaryType get() = \"blob\".asDynamic().unsafeCast<BinaryType>()\r\npublic inline val BinaryType.Companion.ARRAYBUFFER: BinaryType get() = \"arraybuffer\".asDynamic().unsafeCast<BinaryType>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface WorkerType {\r\n   companion object\r\n}\r\npublic inline val WorkerType.Companion.CLASSIC: WorkerType get() = \"classic\".asDynamic().unsafeCast<WorkerType>()\r\npublic inline val WorkerType.Companion.MODULE: WorkerType get() = \"module\".asDynamic().unsafeCast<WorkerType>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface ShadowRootMode {\r\n   companion object\r\n}\r\npublic inline val ShadowRootMode.Companion.OPEN: ShadowRootMode get() = \"open\".asDynamic().unsafeCast<ShadowRootMode>()\r\npublic inline val ShadowRootMode.Companion.CLOSED: ShadowRootMode get() = \"closed\".asDynamic().unsafeCast<ShadowRootMode>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface ScrollBehavior {\r\n   companion object\r\n}\r\npublic inline val ScrollBehavior.Companion.AUTO: ScrollBehavior get() = \"auto\".asDynamic().unsafeCast<ScrollBehavior>()\r\npublic inline val ScrollBehavior.Companion.INSTANT: ScrollBehavior get() = \"instant\".asDynamic().unsafeCast<ScrollBehavior>()\r\npublic inline val ScrollBehavior.Companion.SMOOTH: ScrollBehavior get() = \"smooth\".asDynamic().unsafeCast<ScrollBehavior>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface ScrollLogicalPosition {\r\n   companion object\r\n}\r\npublic inline val ScrollLogicalPosition.Companion.START: ScrollLogicalPosition get() = \"start\".asDynamic().unsafeCast<ScrollLogicalPosition>()\r\npublic inline val ScrollLogicalPosition.Companion.CENTER: ScrollLogicalPosition get() = \"center\".asDynamic().unsafeCast<ScrollLogicalPosition>()\r\npublic inline val ScrollLogicalPosition.Companion.END: ScrollLogicalPosition get() = \"end\".asDynamic().unsafeCast<ScrollLogicalPosition>()\r\npublic inline val ScrollLogicalPosition.Companion.NEAREST: ScrollLogicalPosition get() = \"nearest\".asDynamic().unsafeCast<ScrollLogicalPosition>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface CSSBoxType {\r\n   companion object\r\n}\r\npublic inline val CSSBoxType.Companion.MARGIN: CSSBoxType get() = \"margin\".asDynamic().unsafeCast<CSSBoxType>()\r\npublic inline val CSSBoxType.Companion.BORDER: CSSBoxType get() = \"border\".asDynamic().unsafeCast<CSSBoxType>()\r\npublic inline val CSSBoxType.Companion.PADDING: CSSBoxType get() = \"padding\".asDynamic().unsafeCast<CSSBoxType>()\r\npublic inline val CSSBoxType.Companion.CONTENT: CSSBoxType get() = \"content\".asDynamic().unsafeCast<CSSBoxType>()\r\n\r\n","/*\r\n * Copyright 2010-2018

JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\r\n// See libraries/tools/idl2k for details\r\n\r\n@file:Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\r\npackage org.w3c.fetch\r\n\r\nimport kotlin.js.*\r\nimport org.khronos.webgl.*\r\nimport org.w3c.css.masking.*\r\nimport org.w3c.dom.*\r\nimport org.w3c.dom.clipboard.*\r\nimport org.w3c.dom.css.*\r\nimport org.w3c.dom.events.*\r\nimport org.w3c.dom.mediacapture.*\r\nimport org.w3c.dom.parsing.*\r\nimport org.w3c.dom.pointerevents.*\r\nimport org.w3c.dom.svg.*\r\nimport org.w3c.dom.url.*\r\nimport org.w3c.files.*\r\nimport org.w3c.notifications.*\r\nimport org.w3c.performance.*\r\nimport org.w3c.workers.*\r\nimport org.w3c.xhr.*\r\n\r\n/**\r\n * Exposes the JavaScript [Headers](https://developer.mozilla.org/en/docs/Web/API/Headers) to Kotlin\r\n */\r\npublic external open class Headers(init: dynamic = definedExternally) {\r\n   fun append(name: String, value: String): Unit\r\n   fun delete(name: String): Unit\r\n   fun get(name: String): String?\r\n   fun has(name: String): Boolean\r\n   fun set(name: String, value: String): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Body](https://developer.mozilla.org/en/docs/Web/API/Body) to Kotlin\r\n */\r\npublic external interface Body {\r\n   val bodyUsed: Boolean\r\n   fun arrayBuffer(): Promise<ArrayBuffer>\r\n   fun blob(): Promise<Blob>\r\n   fun formData(): Promise<FormData>\r\n   fun json(): Promise<Any?>\r\n   fun text(): Promise<String>\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Request](https://developer.mozilla.org/en/docs/Web/API/Request) to Kotlin\r\n */\r\npublic external open class Request(input: dynamic, init: RequestInit = definedExternally) : Body {\r\n   open val method: String\r\n   open val url: String\r\n   open val headers: Headers\r\n   open val type: RequestType\r\n   open val destination: RequestDestination\r\n   open val referrer: String\r\n   open val referrerPolicy: dynamic\r\n   open val mode: RequestMode\r\n   open val credentials: RequestCredentials\r\n   open val cache: RequestCache\r\n   open val redirect: RequestRedirect\r\n   open val integrity: String\r\n   open val keepalive: Boolean\r\n   override val bodyUsed: Boolean\r\n   fun clone(): Request\r\n   override fun arrayBuffer(): Promise<ArrayBuffer>\r\n   override fun blob(): Promise<Blob>\r\n   override fun formData(): Promise<FormData>\r\n   override fun json(): Promise<Any?>\r\n   override fun text(): Promise<String>\r\n}\r\n\r\npublic external interface RequestInit {\r\n   var method: String?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var headers: dynamic\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var body: dynamic\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var referrer: String?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var referrerPolicy: dynamic\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var mode: RequestMode?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var credentials: RequestCredentials?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var cache: RequestCache?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var redirect: RequestRedirect?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var integrity: String?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var keepalive: Boolean?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var window: Any?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun RequestInit(method: String? = undefined, headers: dynamic = undefined, body: dynamic = undefined, referrer: String? = undefined, referrerPolicy: dynamic = undefined, mode: RequestMode? = undefined, credentials: RequestCredentials? = undefined, cache: RequestCache? = undefined, redirect: RequestRedirect? = undefined, integrity: String? = undefined, keepalive: Boolean? = undefined, window: Any? = undefined): RequestInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"method\"] = method\r\n   o[\"headers\"] = headers\r\n   o[\"body\"] = body\r\n   o[\"referrer\"] = referrer\r\n   o[\"referrerPolicy\"] = referrerPolicy\r\n   o[\"mode\"] = mode\r\n   o[\"credentials\"] = credentials\r\n   o[\"cache\"] = cache\r\n   o[\"redirect\"] = redirect\r\n   o[\"integrity\"] = integrity\r\n   o[\"keepalive\"] = keepalive\r\n   o[\"window\"] = window\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Response](https://developer.mozilla.org/en/docs/Web/API/Response) to Kotlin\r\n */\r\npublic external

open class Response(body: dynamic = definedExternally, init: ResponseInit = definedExternally) : Body {\r\n open val type: ResponseType\r\n open val url: String\r\n open val redirected: Boolean\r\n open val status: Short\r\n open val ok: Boolean\r\n open val statusText: String\r\n open val headers: Headers\r\n open val body: dynamic\r\n open val trailer: Promise<Headers>\r\n override val bodyUsed: Boolean\r\n fun clone(): Response\r\n override fun arrayBuffer(): Promise<ArrayBuffer>\r\n override fun blob(): Promise<Blob>\r\n override fun formData(): Promise<FormData>\r\n override fun json(): Promise<Any?>\r\n override fun text(): Promise<String>\r\n\r\n companion object {\r\n fun error(): Response\r\n fun redirect(url: String, status: Short = definedExternally): Response\r\n }\r\n}\r\n\r\npublic external interface ResponseInit {\r\n var status: Short? /* = 200 */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var statusText: String? /* = \"OK\" */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var headers: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ResponseInit(status: Short? = 200, statusText: String? = \"OK\", headers: dynamic = undefined): ResponseInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"status\"] = status\r\n o[\"statusText\"] = statusText\r\n o[\"headers\"] = headers\r\n\r\n return o\r\n}\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface RequestType {\r\n companion object\r\n}\r\npublic inline val RequestType.Companion.EMPTY: RequestType get() = \"\".asDynamic().unsafeCast<RequestType>()\r\npublic inline val RequestType.Companion.AUDIO: RequestType get() = \"audio\".asDynamic().unsafeCast<RequestType>()\r\npublic inline val RequestType.Companion.FONT: RequestType get() = \"font\".asDynamic().unsafeCast<RequestType>()\r\npublic inline val RequestType.Companion.IMAGE: RequestType get() = \"image\".asDynamic().unsafeCast<RequestType>()\r\npublic inline val RequestType.Companion.SCRIPT: RequestType get() = \"script\".asDynamic().unsafeCast<RequestType>()\r\npublic inline val RequestType.Companion.STYLE: RequestType get() = \"style\".asDynamic().unsafeCast<RequestType>()\r\npublic inline val RequestType.Companion.TRACK: RequestType get() = \"track\".asDynamic().unsafeCast<RequestType>()\r\npublic inline val RequestType.Companion.VIDEO: RequestType get() = \"video\".asDynamic().unsafeCast<RequestType>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface RequestDestination {\r\n companion object\r\n}\r\npublic inline val RequestDestination.Companion.EMPTY: RequestDestination get() = \"\".asDynamic().unsafeCast<RequestDestination>()\r\npublic inline val RequestDestination.Companion.DOCUMENT: RequestDestination get() = \"document\".asDynamic().unsafeCast<RequestDestination>()\r\npublic inline val RequestDestination.Companion.EMBED: RequestDestination get() = \"embed\".asDynamic().unsafeCast<RequestDestination>()\r\npublic inline val RequestDestination.Companion.FONT: RequestDestination get() = \"font\".asDynamic().unsafeCast<RequestDestination>()\r\npublic inline val RequestDestination.Companion.IMAGE: RequestDestination get() = \"image\".asDynamic().unsafeCast<RequestDestination>()\r\npublic inline val RequestDestination.Companion.MANIFEST: RequestDestination get() = \"manifest\".asDynamic().unsafeCast<RequestDestination>()\r\npublic inline val RequestDestination.Companion.MEDIA: RequestDestination get() = \"media\".asDynamic().unsafeCast<RequestDestination>()\r\npublic inline val RequestDestination.Companion.OBJECT: RequestDestination get() = \"object\".asDynamic().unsafeCast<RequestDestination>()\r\npublic inline val RequestDestination.Companion.REPORT: RequestDestination get() = \"report\".asDynamic().unsafeCast<RequestDestination>()\r\npublic inline val RequestDestination.Companion.SCRIPT: RequestDestination get() = \"script\".asDynamic().unsafeCast<RequestDestination>()\r\npublic inline val

RequestDestination.Companion.SERVICEWORKER: RequestDestination get() =
\"serviceworker\".asDynamic().unsafeCast<RequestDestination>()\r\npublic inline val
RequestDestination.Companion.SHAREDWORKER: RequestDestination get() =
\"sharedworker\".asDynamic().unsafeCast<RequestDestination>()\r\npublic inline val
RequestDestination.Companion.STYLE: RequestDestination get() =
\"style\".asDynamic().unsafeCast<RequestDestination>()\r\npublic inline val
RequestDestination.Companion.WORKER: RequestDestination get() =
\"worker\".asDynamic().unsafeCast<RequestDestination>()\r\npublic inline val
RequestDestination.Companion.XSLT: RequestDestination get() =
\"xslt\".asDynamic().unsafeCast<RequestDestination>()\r\n\r\n/* please, don't implement this interface! */\r\npublic
external interface RequestMode {\r\n   companion object\r\n}\r\npublic inline val
RequestMode.Companion.NAVIGATE: RequestMode get() =
\"navigate\".asDynamic().unsafeCast<RequestMode>()\r\npublic inline val
RequestMode.Companion.SAME_ORIGIN: RequestMode get() = \"same-
origin\".asDynamic().unsafeCast<RequestMode>()\r\npublic inline val RequestMode.Companion.NO_CORS:
RequestMode get() = \"no-cors\".asDynamic().unsafeCast<RequestMode>()\r\npublic inline val
RequestMode.Companion.CORS: RequestMode get() = \"cors\".asDynamic().unsafeCast<RequestMode>()\r\n\r\n/*
please, don't implement this interface! */\r\npublic external interface RequestCredentials {\r\n   companion
object\r\n}\r\npublic inline val RequestCredentials.Companion.OMIT: RequestCredentials get() =
\"omit\".asDynamic().unsafeCast<RequestCredentials>()\r\npublic inline val
RequestCredentials.Companion.SAME_ORIGIN: RequestCredentials get() = \"same-
origin\".asDynamic().unsafeCast<RequestCredentials>()\r\npublic inline val
RequestCredentials.Companion.INCLUDE: RequestCredentials get() =
\"include\".asDynamic().unsafeCast<RequestCredentials>()\r\n\r\n/* please, don't implement this interface!
*/\r\npublic external interface RequestCache {\r\n   companion object\r\n}\r\npublic inline val
RequestCache.Companion.DEFAULT: RequestCache get() =
\"default\".asDynamic().unsafeCast<RequestCache>()\r\npublic inline val RequestCache.Companion.NO_STORE:
RequestCache get() = \"no-store\".asDynamic().unsafeCast<RequestCache>()\r\npublic inline val
RequestCache.Companion.RELOAD: RequestCache get() =
\"reload\".asDynamic().unsafeCast<RequestCache>()\r\npublic inline val RequestCache.Companion.NO_CACHE:
RequestCache get() = \"no-cache\".asDynamic().unsafeCast<RequestCache>()\r\npublic inline val
RequestCache.Companion.FORCE_CACHE: RequestCache get() = \"force-
cache\".asDynamic().unsafeCast<RequestCache>()\r\npublic inline val
RequestCache.Companion.ONLY_IF_CACHED: RequestCache get() = \"only-if-
cached\".asDynamic().unsafeCast<RequestCache>()\r\n\r\n/* please, don't implement this interface! */\r\npublic
external interface RequestRedirect {\r\n   companion object\r\n}\r\npublic inline val
RequestRedirect.Companion.FOLLOW: RequestRedirect get() =
\"follow\".asDynamic().unsafeCast<RequestRedirect>()\r\npublic inline val RequestRedirect.Companion.ERROR:
RequestRedirect get() = \"error\".asDynamic().unsafeCast<RequestRedirect>()\r\npublic inline val
RequestRedirect.Companion.MANUAL: RequestRedirect get() =
\"manual\".asDynamic().unsafeCast<RequestRedirect>()\r\n\r\n/* please, don't implement this interface! */\r\npublic
external interface ResponseType {\r\n   companion object\r\n}\r\npublic inline val
ResponseType.Companion.BASIC: ResponseType get() =
\"basic\".asDynamic().unsafeCast<ResponseType>()\r\npublic inline val ResponseType.Companion.CORS:
ResponseType get() = \"cors\".asDynamic().unsafeCast<ResponseType>()\r\npublic inline val
ResponseType.Companion.DEFAULT: ResponseType get() =
\"default\".asDynamic().unsafeCast<ResponseType>()\r\npublic inline val ResponseType.Companion.ERROR:
ResponseType get() = \"error\".asDynamic().unsafeCast<ResponseType>()\r\npublic inline val

ResponseType.Companion.OPAQUE: ResponseType get() = \"opaque\".asDynamic().unsafeCast<ResponseType>()\r\npublic inline val ResponseType.Companion.OPAQUEREDIRECT: ResponseType get() = \"opaqueredirect\".asDynamic().unsafeCast<ResponseType>()\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\r\n// See libraries/tools/idl2k for details\r\n\r\n@file:Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\r\npackage org.w3c.dom.mediacapture\r\n\r\nimport kotlin.js.*\r\nimport org.khronos.webgl.*\r\nimport org.w3c.css.masking.*\r\nimport org.w3c.dom.*\r\nimport org.w3c.dom.clipboard.*\r\nimport org.w3c.dom.css.*\r\nimport org.w3c.dom.events.*\r\nimport org.w3c.dom.parsing.*\r\nimport org.w3c.dom.pointerevents.*\r\nimport org.w3c.dom.svg.*\r\nimport org.w3c.dom.url.*\r\nimport org.w3c.fetch.*\r\nimport org.w3c.files.*\r\nimport org.w3c.notifications.*\r\nimport org.w3c.performance.*\r\nimport org.w3c.workers.*\r\nimport org.w3c.xhr.*\r\n\r\n/**\r\n * Exposes the JavaScript [MediaStream](https://developer.mozilla.org/en/docs/Web/API/MediaStream) to Kotlin\r\n */\r\npublic external open class MediaStream() : EventTarget {\r\n   constructor(stream: MediaStream)\r\n   constructor(tracks: Array<MediaStreamTrack>)\r\n   open val id: String\r\n   open val active: Boolean\r\n   var onaddtrack: ((MediaStreamTrackEvent) -> dynamic)?\r\n   var onremovetrack: ((MediaStreamTrackEvent) -> dynamic)?\r\n   fun getAudioTracks(): Array<MediaStreamTrack>\r\n   fun getVideoTracks(): Array<MediaStreamTrack>\r\n   fun getTracks(): Array<MediaStreamTrack>\r\n   fun getTrackById(trackId: String): MediaStreamTrack?\r\n   fun addTrack(track: MediaStreamTrack): Unit\r\n   fun removeTrack(track: MediaStreamTrack): Unit\r\n   fun clone(): MediaStream\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [MediaStreamTrack](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrack) to Kotlin\r\n */\r\npublic external abstract class MediaStreamTrack : EventTarget {\r\n   open val kind: String\r\n   open val id: String\r\n   open val label: String\r\n   open var enabled: Boolean\r\n   open val muted: Boolean\r\n   open var onmute: ((Event) -> dynamic)?\r\n   open var onunmute: ((Event) -> dynamic)?\r\n   open val readyState: MediaStreamTrackState\r\n   open var onended: ((Event) -> dynamic)?\r\n   open var onoverconstrained: ((Event) -> dynamic)?\r\n   fun clone(): MediaStreamTrack\r\n   fun stop(): Unit\r\n   fun getCapabilities(): MediaTrackCapabilities\r\n   fun getConstraints(): MediaTrackConstraints\r\n   fun getSettings(): MediaTrackSettings\r\n   fun applyConstraints(constraints: MediaTrackConstraints = definedExternally): Promise<Unit>\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [MediaTrackSupportedConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSupportedConstraints) to Kotlin\r\n */\r\npublic external interface MediaTrackSupportedConstraints {\r\n   var width: Boolean? /* = true */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var height: Boolean? /* = true */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var aspectRatio: Boolean? /* = true */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var frameRate: Boolean? /* = true */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var facingMode: Boolean? /* = true */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var resizeMode: Boolean? /* = true */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var volume: Boolean? /* = true */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var sampleRate: Boolean? /* = true */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var sampleSize: Boolean? /* = true */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var echoCancellation: Boolean? /* = true */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var autoGainControl: Boolean? /* = true */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var noiseSuppression: Boolean? /* = true */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var latency: Boolean? /* = true */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var channelCount: Boolean? /* = true */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var deviceId: Boolean? /* = true */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var

groupId: Boolean? /* = true */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun MediaTrackSupportedConstraints(width: Boolean? = true, height: Boolean? = true, aspectRatio: Boolean? = true, frameRate: Boolean? = true, facingMode: Boolean? = true, resizeMode: Boolean? = true, volume: Boolean? = true, sampleRate: Boolean? = true, sampleSize: Boolean? = true, echoCancellation: Boolean? = true, autoGainControl: Boolean? = true, noiseSuppression: Boolean? = true, latency: Boolean? = true, channelCount: Boolean? = true, deviceId: Boolean? = true, groupId: Boolean? = true): MediaTrackSupportedConstraints {\r\n val o = js(\"({})\")\r\n\r\n o[\"width\"] = width\r\n o[\"height\"] = height\r\n o[\"aspectRatio\"] = aspectRatio\r\n o[\"frameRate\"] = frameRate\r\n o[\"facingMode\"] = facingMode\r\n o[\"resizeMode\"] = resizeMode\r\n o[\"volume\"] = volume\r\n o[\"sampleRate\"] = sampleRate\r\n o[\"sampleSize\"] = sampleSize\r\n o[\"echoCancellation\"] = echoCancellation\r\n o[\"autoGainControl\"] = autoGainControl\r\n o[\"noiseSuppression\"] = noiseSuppression\r\n o[\"latency\"] = latency\r\n o[\"channelCount\"] = channelCount\r\n o[\"deviceId\"] = deviceId\r\n o[\"groupId\"] = groupId\r\n\r\n return o\r\n}\r\n\r\n\r\npublic external interface MediaTrackCapabilities {\r\n var width: ULongRange?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var height: ULongRange?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var aspectRatio: DoubleRange?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var frameRate: DoubleRange?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var facingMode: Array<String>?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var resizeMode: Array<String>?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var volume: DoubleRange?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var sampleRate: ULongRange?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var sampleSize: ULongRange?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var echoCancellation: Array<Boolean>?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var autoGainControl: Array<Boolean>?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var noiseSuppression: Array<Boolean>?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var latency: DoubleRange?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var channelCount: ULongRange?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var deviceId: String?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var groupId: String?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun MediaTrackCapabilities(width: ULongRange? = undefined, height: ULongRange? = undefined, aspectRatio: DoubleRange? = undefined, frameRate: DoubleRange? = undefined, facingMode: Array<String>? = undefined, resizeMode: Array<String>? = undefined, volume: DoubleRange? = undefined, sampleRate: ULongRange? = undefined, sampleSize: ULongRange? = undefined, echoCancellation: Array<Boolean>? = undefined, autoGainControl: Array<Boolean>? = undefined, noiseSuppression: Array<Boolean>? = undefined, latency: DoubleRange? = undefined, channelCount: ULongRange? = undefined, deviceId: String? = undefined, groupId: String? = undefined): MediaTrackCapabilities {\r\n val o = js(\"({})\")\r\n\r\n o[\"width\"] = width\r\n o[\"height\"] = height\r\n o[\"aspectRatio\"] = aspectRatio\r\n o[\"frameRate\"] = frameRate\r\n o[\"facingMode\"] = facingMode\r\n o[\"resizeMode\"] = resizeMode\r\n o[\"volume\"] = volume\r\n o[\"sampleRate\"] = sampleRate\r\n o[\"sampleSize\"] = sampleSize\r\n o[\"echoCancellation\"] = echoCancellation\r\n o[\"autoGainControl\"] = autoGainControl\r\n o[\"noiseSuppression\"] = noiseSuppression\r\n o[\"latency\"] = latency\r\n o[\"channelCount\"] = channelCount\r\n o[\"deviceId\"] = deviceId\r\n o[\"groupId\"] = groupId\r\n\r\n return o\r\n}\r\n\r\n\r\n/**\r\n * Exposes the JavaScript [MediaTrackConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackConstraints) to Kotlin\r\n */\r\npublic external interface MediaTrackConstraints : MediaTrackConstraintSet {\r\n var advanced: Array<MediaTrackConstraintSet>?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun MediaTrackConstraints(advanced: Array<MediaTrackConstraintSet>? = undefined, width: dynamic = undefined, height: dynamic = undefined,

aspectRatio: dynamic = undefined, frameRate: dynamic = undefined, facingMode: dynamic = undefined, resizeMode: dynamic = undefined, volume: dynamic = undefined, sampleRate: dynamic = undefined, sampleSize: dynamic = undefined, echoCancellation: dynamic = undefined, autoGainControl: dynamic = undefined, noiseSuppression: dynamic = undefined, latency: dynamic = undefined, channelCount: dynamic = undefined, deviceId: dynamic = undefined, groupId: dynamic = undefined): MediaTrackConstraints {\r\n val o = js(\"({})\")\r\n\r\n o[\"advanced\"] = advanced\r\n o[\"width\"] = width\r\n o[\"height\"] = height\r\n o[\"aspectRatio\"] = aspectRatio\r\n o[\"frameRate\"] = frameRate\r\n o[\"facingMode\"] = facingMode\r\n o[\"resizeMode\"] = resizeMode\r\n o[\"volume\"] = volume\r\n o[\"sampleRate\"] = sampleRate\r\n o[\"sampleSize\"] = sampleSize\r\n o[\"echoCancellation\"] = echoCancellation\r\n o[\"autoGainControl\"] = autoGainControl\r\n o[\"noiseSuppression\"] = noiseSuppression\r\n o[\"latency\"] = latency\r\n o[\"channelCount\"] = channelCount\r\n o[\"deviceId\"] = deviceId\r\n o[\"groupId\"] = groupId\r\n\r\n return o\r\n}\r\n\r\npublic external interface MediaTrackConstraintSet {\r\n var width: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var height: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var aspectRatio: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var frameRate: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var facingMode: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var resizeMode: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var volume: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var sampleRate: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var sampleSize: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var echoCancellation: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var autoGainControl: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var noiseSuppression: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var latency: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var channelCount: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var deviceId: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var groupId: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun MediaTrackConstraintSet(width: dynamic = undefined, height: dynamic = undefined, aspectRatio: dynamic = undefined, frameRate: dynamic = undefined, facingMode: dynamic = undefined, resizeMode: dynamic = undefined, volume: dynamic = undefined, sampleRate: dynamic = undefined, sampleSize: dynamic = undefined, echoCancellation: dynamic = undefined, autoGainControl: dynamic = undefined, noiseSuppression: dynamic = undefined, latency: dynamic = undefined, channelCount: dynamic = undefined, deviceId: dynamic = undefined, groupId: dynamic = undefined): MediaTrackConstraintSet {\r\n val o = js(\"({})\")\r\n\r\n o[\"width\"] = width\r\n o[\"height\"] = height\r\n o[\"aspectRatio\"] = aspectRatio\r\n o[\"frameRate\"] = frameRate\r\n o[\"facingMode\"] = facingMode\r\n o[\"resizeMode\"] = resizeMode\r\n o[\"volume\"] = volume\r\n o[\"sampleRate\"] = sampleRate\r\n o[\"sampleSize\"] = sampleSize\r\n o[\"echoCancellation\"] = echoCancellation\r\n o[\"autoGainControl\"] = autoGainControl\r\n o[\"noiseSuppression\"] = noiseSuppression\r\n o[\"latency\"] = latency\r\n o[\"channelCount\"] = channelCount\r\n o[\"deviceId\"] = deviceId\r\n o[\"groupId\"] = groupId\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [MediaTrackSettings](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSettings) to Kotlin\r\n */\r\npublic external interface MediaTrackSettings {\r\n var width: Int?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var height: Int?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var aspectRatio: Double?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var frameRate: Double?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var facingMode: String?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var resizeMode: String?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var volume: Double?\r\n get() = definedExternally\r\n set(value) =

definedExternally\r\n   var sampleRate: Int?\r\n   get() = definedExternally\r\n   set(value) =
definedExternally\r\n   var sampleSize: Int?\r\n   get() = definedExternally\r\n   set(value) =
definedExternally\r\n   var echoCancellation: Boolean?\r\n   get() = definedExternally\r\n   set(value) =
definedExternally\r\n   var autoGainControl: Boolean?\r\n   get() = definedExternally\r\n   set(value) =
definedExternally\r\n   var noiseSuppression: Boolean?\r\n   get() = definedExternally\r\n   set(value) =
definedExternally\r\n   var latency: Double?\r\n   get() = definedExternally\r\n   set(value) =
definedExternally\r\n   var channelCount: Int?\r\n   get() = definedExternally\r\n   set(value) =
definedExternally\r\n   var deviceId: String?\r\n   get() = definedExternally\r\n   set(value) =
definedExternally\r\n   var groupId: String?\r\n   get() = definedExternally\r\n   set(value) =
definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun MediaTrackSettings(width: Int? =
undefined, height: Int? = undefined, aspectRatio: Double? = undefined, frameRate: Double? = undefined,
facingMode: String? = undefined, resizeMode: String? = undefined, volume: Double? = undefined, sampleRate: Int?
= undefined, sampleSize: Int? = undefined, echoCancellation: Boolean? = undefined, autoGainControl: Boolean? =
undefined, noiseSuppression: Boolean? = undefined, latency: Double? = undefined, channelCount: Int? = undefined,
deviceId: String? = undefined, groupId: String? = undefined): MediaTrackSettings {\r\n   val o = js(\"({})\")\r\n\r\n
o[\"width\"] = width\r\n   o[\"height\"] = height\r\n   o[\"aspectRatio\"] = aspectRatio\r\n   o[\"frameRate\"] =
frameRate\r\n   o[\"facingMode\"] = facingMode\r\n   o[\"resizeMode\"] = resizeMode\r\n   o[\"volume\"] =
volume\r\n   o[\"sampleRate\"] = sampleRate\r\n   o[\"sampleSize\"] = sampleSize\r\n   o[\"echoCancellation\"] =
echoCancellation\r\n   o[\"autoGainControl\"] = autoGainControl\r\n   o[\"noiseSuppression\"] =
noiseSuppression\r\n   o[\"latency\"] = latency\r\n   o[\"channelCount\"] = channelCount\r\n   o[\"deviceId\"] =
deviceId\r\n   o[\"groupId\"] = groupId\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript
[MediaStreamTrackEvent](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrackEvent) to Kotlin\r\n
*/\r\npublic external open class MediaStreamTrackEvent(type: String, eventInitDict: MediaStreamTrackEventInit) :
Event {\r\n   open val track: MediaStreamTrack\r\n}\r\n\r\npublic external interface MediaStreamTrackEventInit :
EventInit {\r\n   var track: MediaStreamTrack?\r\n   get() = definedExternally\r\n   set(value) =
definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun MediaStreamTrackEventInit(track:
MediaStreamTrack?, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
MediaStreamTrackEventInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"track\"] = track\r\n   o[\"bubbles\"] =
bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\npublic
external open class OverconstrainedErrorEvent(type: String, eventInitDict: OverconstrainedErrorEventInit) : Event
{\r\n   open val error: dynamic\r\n}\r\n\r\npublic external interface OverconstrainedErrorEventInit : EventInit {\r\n
var error: dynamic /* = null */\r\n   get() = definedExternally\r\n   set(value) =
definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun OverconstrainedErrorEventInit(error:
dynamic = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
OverconstrainedErrorEventInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"error\"] = error\r\n   o[\"bubbles\"] =
bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n *
Exposes the JavaScript [MediaDevices](https://developer.mozilla.org/en/docs/Web/API/MediaDevices) to Kotlin\r\n
*/\r\npublic external abstract class MediaDevices : EventTarget {\r\n   open var ondevicechange: ((Event) ->
dynamic)?\r\n   fun enumerateDevices(): Promise<dynamic>\r\n   fun getSupportedConstraints():
MediaTrackSupportedConstraints\r\n   fun getUserMedia(constraints: MediaStreamConstraints =
definedExternally): Promise<MediaStream>\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript
[MediaDeviceInfo](https://developer.mozilla.org/en/docs/Web/API/MediaDeviceInfo) to Kotlin\r\n */\r\npublic
external abstract class MediaDeviceInfo {\r\n   open val deviceId: String\r\n   open val kind: MediaDeviceKind\r\n
open val label: String\r\n   open val groupId: String\r\n   fun toJSON(): dynamic\r\n}\r\n\r\npublic external abstract
class InputDeviceInfo : MediaDeviceInfo {\r\n   fun getCapabilities(): MediaTrackCapabilities\r\n}\r\n\r\n/**\r\n *
Exposes the JavaScript
[MediaStreamConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaStreamConstraints) to Kotlin\r\n
/\r\npublic external interface MediaStreamConstraints {\r\n   var video: dynamic / = false */\r\n   get() =

definedExternally\r\n set(value) = definedExternally\r\n var audio: dynamic /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun MediaStreamConstraints(video: dynamic = false, audio: dynamic = false): MediaStreamConstraints {\r\n val o = js(\"({})\")\r\n\r\n o[\"video\"] = video\r\n o[\"audio\"] = audio\r\n\r\n return o\r\n}\r\n\r\npublic external interface ConstrainablePattern {\r\n var onoverconstrained: ((Event) -> dynamic)?\r\n fun getCapabilities(): Capabilities\r\n fun getConstraints(): Constraints\r\n fun getSettings(): Settings\r\n fun applyConstraints(constraints: Constraints = definedExternally): Promise<Unit>\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [DoubleRange](https://developer.mozilla.org/en/docs/Web/API/DoubleRange) to Kotlin\r\n */\r\npublic external interface DoubleRange {\r\n var max: Double?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var min: Double?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun DoubleRange(max: Double? = undefined, min: Double? = undefined): DoubleRange {\r\n val o = js(\"({})\")\r\n\r\n o[\"max\"] = max\r\n o[\"min\"] = min\r\n\r\n return o\r\n}\r\n\r\npublic external interface ConstrainDoubleRange : DoubleRange {\r\n var exact: Double?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var ideal: Double?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ConstrainDoubleRange(exact: Double? = undefined, ideal: Double? = undefined, max: Double? = undefined, min: Double? = undefined): ConstrainDoubleRange {\r\n val o = js(\"({})\")\r\n\r\n o[\"exact\"] = exact\r\n o[\"ideal\"] = ideal\r\n o[\"max\"] = max\r\n o[\"min\"] = min\r\n\r\n return o\r\n}\r\n\r\npublic external interface ULongRange {\r\n var max: Int?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var min: Int?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ULongRange(max: Int? = undefined, min: Int? = undefined): ULongRange {\r\n val o = js(\"({})\")\r\n\r\n o[\"max\"] = max\r\n o[\"min\"] = min\r\n\r\n return o\r\n}\r\n\r\npublic external interface ConstrainULongRange : ULongRange {\r\n var exact: Int?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var ideal: Int?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ConstrainULongRange(exact: Int? = undefined, ideal: Int? = undefined, max: Int? = undefined, min: Int? = undefined): ConstrainULongRange {\r\n val o = js(\"({})\")\r\n\r\n o[\"exact\"] = exact\r\n o[\"ideal\"] = ideal\r\n o[\"max\"] = max\r\n o[\"min\"] = min\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ConstrainBooleanParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainBooleanParameters) to Kotlin\r\n */\r\npublic external interface ConstrainBooleanParameters {\r\n var exact: Boolean?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var ideal: Boolean?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ConstrainBooleanParameters(exact: Boolean? = undefined, ideal: Boolean? = undefined): ConstrainBooleanParameters {\r\n val o = js(\"({})\")\r\n\r\n o[\"exact\"] = exact\r\n o[\"ideal\"] = ideal\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ConstrainDOMStringParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainDOMStringParameters) to Kotlin\r\n */\r\npublic external interface ConstrainDOMStringParameters {\r\n var exact: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var ideal: dynamic\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ConstrainDOMStringParameters(exact: dynamic = undefined, ideal: dynamic = undefined): ConstrainDOMStringParameters {\r\n val o = js(\"({})\")\r\n\r\n o[\"exact\"] = exact\r\n o[\"ideal\"] = ideal\r\n\r\n return o\r\n}\r\n\r\npublic external interface Capabilities {\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Capabilities(): Capabilities {\r\n val o = js(\"({})\")\r\n\r\n return o\r\n}\r\n\r\npublic external interface Settings {\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Settings(): Settings {\r\n val o = js(\"({})\")\r\n\r\n return o\r\n}\r\n\r\npublic external interface ConstraintSet {\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ConstraintSet(): ConstraintSet {\r\n val o =

js(\"({})\")\r\n\r\n\r\n\r\n   return o\r\n}\r\n\r\n\npublic external interface Constraints : ConstraintSet {\r\n   var advanced: Array<ConstraintSet>?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Constraints(advanced: Array<ConstraintSet>? = undefined): Constraints {\r\n   val o = js(\"({})\")\r\n\r\n\r\n   o[\"advanced\"] = advanced\r\n\r\n\r\n   return o\r\n}\r\n\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface MediaStreamTrackState {\r\n   companion object\r\n}\r\npublic inline val MediaStreamTrackState.Companion.LIVE: MediaStreamTrackState get() = \"live\".asDynamic().unsafeCast<MediaStreamTrackState>()\r\npublic inline val MediaStreamTrackState.Companion.ENDED: MediaStreamTrackState get() = \"ended\".asDynamic().unsafeCast<MediaStreamTrackState>()\r\n\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface VideoFacingModeEnum {\r\n   companion object\r\n}\r\npublic inline val VideoFacingModeEnum.Companion.USER: VideoFacingModeEnum get() = \"user\".asDynamic().unsafeCast<VideoFacingModeEnum>()\r\npublic inline val VideoFacingModeEnum.Companion.ENVIRONMENT: VideoFacingModeEnum get() = \"environment\".asDynamic().unsafeCast<VideoFacingModeEnum>()\r\npublic inline val VideoFacingModeEnum.Companion.LEFT: VideoFacingModeEnum get() = \"left\".asDynamic().unsafeCast<VideoFacingModeEnum>()\r\npublic inline val VideoFacingModeEnum.Companion.RIGHT: VideoFacingModeEnum get() = \"right\".asDynamic().unsafeCast<VideoFacingModeEnum>()\r\n\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface VideoResizeModeEnum {\r\n   companion object\r\n}\r\npublic inline val VideoResizeModeEnum.Companion.NONE: VideoResizeModeEnum get() = \"none\".asDynamic().unsafeCast<VideoResizeModeEnum>()\r\npublic inline val VideoResizeModeEnum.Companion.CROP_AND_SCALE: VideoResizeModeEnum get() = \"crop-and-scale\".asDynamic().unsafeCast<VideoResizeModeEnum>()\r\n\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface MediaDeviceKind {\r\n   companion object\r\n}\r\npublic inline val MediaDeviceKind.Companion.AUDIOINPUT: MediaDeviceKind get() = \"audioinput\".asDynamic().unsafeCast<MediaDeviceKind>()\r\npublic inline val MediaDeviceKind.Companion.AUDIOOUTPUT: MediaDeviceKind get() = \"audiooutput\".asDynamic().unsafeCast<MediaDeviceKind>()\r\npublic inline val MediaDeviceKind.Companion.VIDEOINPUT: MediaDeviceKind get() = \"videoinput\".asDynamic().unsafeCast<MediaDeviceKind>()\r\n\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\r\n// See libraries/tools/idl2k for details\r\n\r\n\r\n@file:Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\r\npackage org.w3c.dom.pointerevents\r\n\r\n\r\nimport kotlin.js.*\r\nimport org.khronos.webgl.*\r\nimport org.w3c.css.masking.*\r\nimport org.w3c.dom.*\r\nimport org.w3c.dom.clipboard.*\r\nimport org.w3c.dom.css.*\r\nimport org.w3c.dom.events.*\r\nimport org.w3c.dom.mediacapture.*\r\nimport org.w3c.dom.parsing.*\r\nimport org.w3c.dom.svg.*\r\nimport org.w3c.dom.url.*\r\nimport org.w3c.fetch.*\r\nimport org.w3c.files.*\r\nimport org.w3c.notifications.*\r\nimport org.w3c.performance.*\r\nimport org.w3c.workers.*\r\nimport org.w3c.xhr.*\r\n\r\n\r\npublic external interface PointerEventInit : MouseEventInit {\r\n   var pointerId: Int? /* = 0 */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var width: Double? /* = 1.0 */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var height: Double? /* = 1.0 */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var pressure: Float? /* = 0f */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var tangentialPressure: Float? /* = 0f */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var tiltX: Int? /* = 0 */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var tiltY: Int? /* = 0 */\r\n   get() = definedExternally\r\n   set(value) =

definedExternally\r\n   var twist: Int? /* = 0 */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var pointerType: String? /* = \"\" */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var isPrimary: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun PointerEventInit(pointerId: Int? = 0, width: Double? = 1.0, height: Double? = 1.0, pressure: Float? = 0f, tangentialPressure: Float? = 0f, tiltX: Int? = 0, tiltY: Int? = 0, twist: Int? = 0, pointerType: String? = \"\", isPrimary: Boolean? = false, screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget: EventTarget? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): PointerEventInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"pointerId\"] = pointerId\r\n   o[\"width\"] = width\r\n   o[\"height\"] = height\r\n   o[\"pressure\"] = pressure\r\n   o[\"tangentialPressure\"] = tangentialPressure\r\n   o[\"tiltX\"] = tiltX\r\n   o[\"tiltY\"] = tiltY\r\n   o[\"twist\"] = twist\r\n   o[\"pointerType\"] = pointerType\r\n   o[\"isPrimary\"] = isPrimary\r\n   o[\"screenX\"] = screenX\r\n   o[\"screenY\"] = screenY\r\n   o[\"clientX\"] = clientX\r\n   o[\"clientY\"] = clientY\r\n   o[\"button\"] = button\r\n   o[\"buttons\"] = buttons\r\n   o[\"relatedTarget\"] = relatedTarget\r\n   o[\"ctrlKey\"] = ctrlKey\r\n   o[\"shiftKey\"] = shiftKey\r\n   o[\"altKey\"] = altKey\r\n   o[\"metaKey\"] = metaKey\r\n   o[\"modifierAltGraph\"] = modifierAltGraph\r\n   o[\"modifierCapsLock\"] = modifierCapsLock\r\n   o[\"modifierFn\"] = modifierFn\r\n   o[\"modifierFnLock\"] = modifierFnLock\r\n   o[\"modifierHyper\"] = modifierHyper\r\n   o[\"modifierNumLock\"] = modifierNumLock\r\n   o[\"modifierScrollLock\"] = modifierScrollLock\r\n   o[\"modifierSuper\"] = modifierSuper\r\n   o[\"modifierSymbol\"] = modifierSymbol\r\n   o[\"modifierSymbolLock\"] = modifierSymbolLock\r\n   o[\"view\"] = view\r\n   o[\"detail\"] = detail\r\n   o[\"bubbles\"] = bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [PointerEvent](https://developer.mozilla.org/en/docs/Web/API/PointerEvent) to Kotlin\r\n */\r\npublic external open class PointerEvent(type: String, eventInitDict: PointerEventInit = definedExternally) : MouseEvent {\r\n   open val pointerId: Int\r\n   open val width: Double\r\n   open val height: Double\r\n   open val pressure: Float\r\n   open val tangentialPressure: Float\r\n   open val tiltX: Int\r\n   open val tiltY: Int\r\n   open val twist: Int\r\n   open val pointerType: String\r\n   open val isPrimary: Boolean\r\n}\r\n\r\n\","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\r\n// See libraries/tools/idl2k for details\r\n\r\n@file:Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\r\npackage org.w3c.dom.svg\r\n\r\nimport kotlin.js.*\r\nimport org.khronos.webgl.*\r\nimport org.w3c.css.masking.*\r\nimport org.w3c.dom.*\r\nimport org.w3c.dom.clipboard.*\r\nimport org.w3c.dom.css.*\r\nimport org.w3c.dom.events.*\r\nimport org.w3c.dom.mediacapture.*\r\nimport org.w3c.dom.parsing.*\r\nimport org.w3c.dom.pointerevents.*\r\nimport org.w3c.dom.url.*\r\nimport org.w3c.fetch.*\r\nimport org.w3c.files.*\r\nimport org.w3c.notifications.*\r\nimport org.w3c.performance.*\r\nimport org.w3c.workers.*\r\nimport org.w3c.xhr.*\r\n\r\n/**\r\n * Exposes the JavaScript [SVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGElement) to Kotlin\r\n */\r\npublic external abstract class SVGElement : Element, ElementCSSInlineStyle, GlobalEventHandlers, SVGElementInstance {\r\n   open val dataset: DOMStringMap\r\n   open val ownerSVGElement: SVGSVGElement?\r\n   open val viewportElement: SVGElement?\r\n   open var tabIndex: Int\r\n   fun focus(): Unit\r\n   fun blur(): Unit\r\n}\r\n\r\npublic external interface SVGBoundingBoxOptions {\r\n   var fill: Boolean? /* = true */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var stroke: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var markers: Boolean? /* = false */\r\n   get() =

definedExternally\r\n   set(value) = definedExternally\r\n   var clipped: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun SVGBoundingBoxOptions(fill: Boolean? = true, stroke: Boolean? = false, markers: Boolean? = false, clipped: Boolean? = false): SVGBoundingBoxOptions {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"fill\"] = fill\r\n   o[\"stroke\"] = stroke\r\n   o[\"markers\"] = markers\r\n   o[\"clipped\"] = clipped\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGGraphicsElement](https://developer.mozilla.org/en/docs/Web/API/SVGGraphicsElement) to Kotlin\r\n */\r\npublic external abstract class SVGGraphicsElement : SVGElement, SVGTests {\r\n   open val transform: SVGAnimatedTransformList\r\n   fun getBBox(options: SVGBoundingBoxOptions = definedExternally): DOMRect\r\n   fun getCTM(): DOMMatrix?\r\n   fun getScreenCTM(): DOMMatrix?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGGeometryElement](https://developer.mozilla.org/en/docs/Web/API/SVGGeometryElement) to Kotlin\r\n */\r\npublic external abstract class SVGGeometryElement : SVGGraphicsElement {\r\n   open val pathLength: SVGAnimatedNumber\r\n   fun isPointInFill(point: DOMPoint): Boolean\r\n   fun isPointInStroke(point: DOMPoint): Boolean\r\n   fun getTotalLength(): Float\r\n   fun getPointAtLength(distance: Float): DOMPoint\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGNumber](https://developer.mozilla.org/en/docs/Web/API/SVGNumber) to Kotlin\r\n */\r\npublic external abstract class SVGNumber {\r\n   open var value: Float\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGLength](https://developer.mozilla.org/en/docs/Web/API/SVGLength) to Kotlin\r\n */\r\npublic external abstract class SVGLength {\r\n   open val unitType: Short\r\n   open var value: Float\r\n   open var valueInSpecifiedUnits: Float\r\n   open var valueAsString: String\r\n   fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits: Float): Unit\r\n   fun convertToSpecifiedUnits(unitType: Short): Unit\r\n\r\n   companion object {\r\n   val SVG_LENGTHTYPE_UNKNOWN: Short\r\n   val SVG_LENGTHTYPE_NUMBER: Short\r\n   val SVG_LENGTHTYPE_PERCENTAGE: Short\r\n   val SVG_LENGTHTYPE_EMS: Short\r\n   val SVG_LENGTHTYPE_EXS: Short\r\n   val SVG_LENGTHTYPE_PX: Short\r\n   val SVG_LENGTHTYPE_CM: Short\r\n   val SVG_LENGTHTYPE_MM: Short\r\n   val SVG_LENGTHTYPE_IN: Short\r\n   val SVG_LENGTHTYPE_PT: Short\r\n   val SVG_LENGTHTYPE_PC: Short\r\n   }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAngle) to Kotlin\r\n */\r\npublic external abstract class SVGAngle {\r\n   open val unitType: Short\r\n   open var value: Float\r\n   open var valueInSpecifiedUnits: Float\r\n   open var valueAsString: String\r\n   fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits: Float): Unit\r\n   fun convertToSpecifiedUnits(unitType: Short): Unit\r\n\r\n   companion object {\r\n   val SVG_ANGLETYPE_UNKNOWN: Short\r\n   val SVG_ANGLETYPE_UNSPECIFIED: Short\r\n   val SVG_ANGLETYPE_DEG: Short\r\n   val SVG_ANGLETYPE_RAD: Short\r\n   val SVG_ANGLETYPE_GRAD: Short\r\n   }\r\n}\r\n\r\npublic external abstract class SVGNameList {\r\n   open val length: Int\r\n   open val numberOfItems: Int\r\n   fun clear(): Unit\r\n   fun initialize(newItem: dynamic): dynamic\r\n   fun getItem(index: Int): dynamic\r\n   fun insertItemBefore(newItem: dynamic, index: Int): dynamic\r\n   fun replaceItem(newItem: dynamic, index: Int): dynamic\r\n   fun removeItem(index: Int): dynamic\r\n   fun appendItem(newItem: dynamic): dynamic\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun SVGNameList.get(index: Int): dynamic = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun SVGNameList.set(index: Int, newItem: dynamic): Unit { asDynamic()[index] = newItem; }\r\n\r\n/**\r\n * Exposes the JavaScript [SVGNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGNumberList) to Kotlin\r\n */\r\npublic external abstract class SVGNumberList {\r\n   open val length: Int\r\n   open val numberOfItems: Int\r\n   fun clear(): Unit\r\n   fun initialize(newItem: SVGNumber): SVGNumber\r\n   fun getItem(index: Int): SVGNumber\r\n   fun insertItemBefore(newItem: SVGNumber, index: Int): SVGNumber\r\n   fun replaceItem(newItem: SVGNumber, index: Int): SVGNumber\r\n   fun removeItem(index: Int): SVGNumber\r\n   fun appendItem(newItem: SVGNumber): SVGNumber\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun SVGNumberList.get(index: Int): SVGNumber? = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline

operator fun SVGNumberList.set(index: Int, newItem: SVGNumber): Unit { asDynamic()[index] = newItem; }\r\n\r\n/**\r\n * Exposes the JavaScript [SVGLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGLengthList) to Kotlin\r\n */\r\npublic external abstract class SVGLengthList {\r\n open val length: Int\r\n open val numberOfItems: Int\r\n fun clear(): Unit\r\n fun initialize(newItem: SVGLength): SVGLength\r\n fun getItem(index: Int): SVGLength\r\n fun insertItemBefore(newItem: SVGLength, index: Int): SVGLength\r\n fun replaceItem(newItem: SVGLength, index: Int): SVGLength\r\n fun removeItem(index: Int): SVGLength\r\n fun appendItem(newItem: SVGLength): SVGLength\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun SVGLengthList.get(index: Int): SVGLength? = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun SVGLengthList.set(index: Int, newItem: SVGLength): Unit { asDynamic()[index] = newItem; }\r\n\r\n/**\r\n * Exposes the JavaScript [SVGAnimatedBoolean](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedBoolean) to Kotlin\r\n */\r\npublic external abstract class SVGAnimatedBoolean {\r\n open var baseVal: Boolean\r\n open val animVal: Boolean\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGAnimatedEnumeration](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedEnumeration) to Kotlin\r\n */\r\npublic external abstract class SVGAnimatedEnumeration {\r\n open var baseVal: Short\r\n open val animVal: Short\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGAnimatedInteger](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedInteger) to Kotlin\r\n */\r\npublic external abstract class SVGAnimatedInteger {\r\n open var baseVal: Int\r\n open val animVal: Int\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGAnimatedNumber](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumber) to Kotlin\r\n */\r\npublic external abstract class SVGAnimatedNumber {\r\n open var baseVal: Float\r\n open val animVal: Float\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGAnimatedLength](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLength) to Kotlin\r\n */\r\npublic external abstract class SVGAnimatedLength {\r\n open val baseVal: SVGLength\r\n open val animVal: SVGLength\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGAnimatedAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedAngle) to Kotlin\r\n */\r\npublic external abstract class SVGAnimatedAngle {\r\n open val baseVal: SVGAngle\r\n open val animVal: SVGAngle\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGAnimatedString](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedString) to Kotlin\r\n */\r\npublic external abstract class SVGAnimatedString {\r\n open var baseVal: String\r\n open val animVal: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGAnimatedRect](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedRect) to Kotlin\r\n */\r\npublic external abstract class SVGAnimatedRect {\r\n open val baseVal: DOMRect\r\n open val animVal: DOMRectReadOnly\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGAnimatedNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumberList) to Kotlin\r\n */\r\npublic external abstract class SVGAnimatedNumberList {\r\n open val baseVal: SVGNumberList\r\n open val animVal: SVGNumberList\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGAnimatedLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLengthList) to Kotlin\r\n */\r\npublic external abstract class SVGAnimatedLengthList {\r\n open val baseVal: SVGLengthList\r\n open val animVal: SVGLengthList\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGStringList](https://developer.mozilla.org/en/docs/Web/API/SVGStringList) to Kotlin\r\n */\r\npublic external abstract class SVGStringList {\r\n open val length: Int\r\n open val numberOfItems: Int\r\n fun clear(): Unit\r\n fun initialize(newItem: String): String\r\n fun getItem(index: Int): String\r\n fun insertItemBefore(newItem: String, index: Int): String\r\n fun replaceItem(newItem: String, index: Int): String\r\n fun removeItem(index: Int): String\r\n fun appendItem(newItem: String): String\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun SVGStringList.get(index: Int): String? = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun SVGStringList.set(index: Int, newItem: String): Unit { asDynamic()[index] = newItem; }\r\n\r\n/**\r\n * Exposes the JavaScript [SVGUnitTypes](https://developer.mozilla.org/en/docs/Web/API/SVGUnitTypes) to Kotlin\r\n

*/\r\npublic external interface SVGUnitTypes {\r\n\r\n   companion object {\r\n   val SVG_UNIT_TYPE_UNKNOWN: Short\r\n   val SVG_UNIT_TYPE_USERSPACEONUSE: Short\r\n   val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\r\n   }\r\n}\r\n\r\n\r\n/**\r\n * Exposes the JavaScript [SVGTests](https://developer.mozilla.org/en/docs/Web/API/SVGTests) to Kotlin\r\n */\r\npublic external interface SVGTests {\r\n   val requiredExtensions: SVGStringList\r\n   val systemLanguage: SVGStringList\r\n}\r\n\r\n\r\npublic external interface SVGFitToViewBox {\r\n   val viewBox: SVGAnimatedRect\r\n   val preserveAspectRatio: SVGAnimatedPreserveAspectRatio\r\n}\r\n\r\n\r\n/**\r\n * Exposes the JavaScript [SVGZoomAndPan](https://developer.mozilla.org/en/docs/Web/API/SVGZoomAndPan) to Kotlin\r\n */\r\npublic external interface SVGZoomAndPan {\r\n   var zoomAndPan: Short\r\n\r\n   companion object {\r\n   val SVG_ZOOMANDPAN_UNKNOWN: Short\r\n   val SVG_ZOOMANDPAN_DISABLE: Short\r\n   val SVG_ZOOMANDPAN_MAGNIFY: Short\r\n   }\r\n}\r\n\r\n\r\n/**\r\n * Exposes the JavaScript [SVGURIReference](https://developer.mozilla.org/en/docs/Web/API/SVGURIReference) to Kotlin\r\n */\r\npublic external interface SVGURIReference {\r\n   val href: SVGAnimatedString\r\n}\r\n\r\n\r\n/**\r\n * Exposes the JavaScript [SVGSVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGSVGElement) to Kotlin\r\n */\r\npublic external abstract class SVGSVGElement : SVGGraphicsElement, SVGFitToViewBox, SVGZoomAndPan, WindowEventHandlers {\r\n   open val x: SVGAnimatedLength\r\n   open val y: SVGAnimatedLength\r\n   open val width: SVGAnimatedLength\r\n   open val height: SVGAnimatedLength\r\n   open var currentScale: Float\r\n   open val currentTranslate: DOMPointReadOnly\r\n   fun getIntersectionList(rect: DOMRectReadOnly, referenceElement: SVGElement?): NodeList\r\n   fun getEnclosureList(rect: DOMRectReadOnly, referenceElement: SVGElement?): NodeList\r\n   fun checkIntersection(element: SVGElement, rect: DOMRectReadOnly): Boolean\r\n   fun checkEnclosure(element: SVGElement, rect: DOMRectReadOnly): Boolean\r\n   fun deselectAll(): Unit\r\n   fun createSVGNumber(): SVGNumber\r\n   fun createSVGLength(): SVGLength\r\n   fun createSVGAngle(): SVGAngle\r\n   fun createSVGPoint(): DOMPoint\r\n   fun createSVGMatrix(): DOMMatrix\r\n   fun createSVGRect(): DOMRect\r\n   fun createSVGTransform(): SVGTransform\r\n   fun createSVGTransformFromMatrix(matrix: DOMMatrixReadOnly): SVGTransform\r\n   fun getElementById(elementId: String): Element\r\n   fun suspendRedraw(maxWaitMilliseconds: Int): Int\r\n   fun unsuspendRedraw(suspendHandleID: Int): Unit\r\n   fun unsuspendRedrawAll(): Unit\r\n   fun forceRedraw(): Unit\r\n\r\n   companion object {\r\n   val SVG_ZOOMANDPAN_UNKNOWN: Short\r\n   val SVG_ZOOMANDPAN_DISABLE: Short\r\n   val SVG_ZOOMANDPAN_MAGNIFY: Short\r\n   }\r\n}\r\n\r\n\r\n/**\r\n * Exposes the JavaScript [SVGGElement](https://developer.mozilla.org/en/docs/Web/API/SVGGElement) to Kotlin\r\n */\r\npublic external abstract class SVGGElement : SVGGraphicsElement {\r\n}\r\n\r\n\r\npublic external abstract class SVGUnknownElement : SVGGraphicsElement {\r\n}\r\n\r\n\r\n/**\r\n * Exposes the JavaScript [SVGDefsElement](https://developer.mozilla.org/en/docs/Web/API/SVGDefsElement) to Kotlin\r\n */\r\npublic external abstract class SVGDefsElement : SVGGraphicsElement {\r\n}\r\n\r\n\r\n/**\r\n * Exposes the JavaScript [SVGDescElement](https://developer.mozilla.org/en/docs/Web/API/SVGDescElement) to Kotlin\r\n */\r\npublic external abstract class SVGDescElement : SVGElement {\r\n}\r\n\r\n\r\n/**\r\n * Exposes the JavaScript [SVGMetadataElement](https://developer.mozilla.org/en/docs/Web/API/SVGMetadataElement) to Kotlin\r\n */\r\npublic external abstract class SVGMetadataElement : SVGElement {\r\n}\r\n\r\n\r\n/**\r\n * Exposes the JavaScript [SVGTitleElement](https://developer.mozilla.org/en/docs/Web/API/SVGTitleElement) to Kotlin\r\n */\r\npublic external abstract class SVGTitleElement : SVGElement {\r\n}\r\n\r\n\r\n/**\r\n * Exposes the JavaScript [SVGSymbolElement](https://developer.mozilla.org/en/docs/Web/API/SVGSymbolElement) to Kotlin\r\n */\r\npublic external abstract class SVGSymbolElement : SVGGraphicsElement, SVGFitToViewBox {\r\n}\r\n\r\n\r\n/**\r\n * Exposes the JavaScript [SVGUseElement](https://developer.mozilla.org/en/docs/Web/API/SVGUseElement) to Kotlin\r\n */\r\npublic external abstract class SVGUseElement : SVGGraphicsElement, SVGURIReference {\r\n   open val x: SVGAnimatedLength\r\n   open val y: SVGAnimatedLength\r\n   open val width: SVGAnimatedLength\r\n   open val height: SVGAnimatedLength\r\n   open val instanceRoot: SVGElement?\r\n   open val animatedInstanceRoot:

SVGElement?\r\n}\r\n\r\npublic external open class SVGUseElementShadowRoot : ShadowRoot {\r\n override fun getElementById(elementId: String): Element?\r\n override fun prepend(vararg nodes: dynamic): Unit\r\n override fun append(vararg nodes: dynamic): Unit\r\n override fun querySelector(selectors: String): Element?\r\n override fun querySelectorAll(selectors: String): NodeList\r\n}\r\n\r\npublic external interface SVGElementInstance {\r\n val correspondingElement: SVGElement?\r\n val correspondingUseElement: SVGUseElement?\r\n}\r\n\r\npublic external open class ShadowAnimation(source: dynamic, newTarget: dynamic) {\r\n open val sourceAnimation: dynamic\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGSwitchElement](https://developer.mozilla.org/en/docs/Web/API/SVGSwitchElement) to Kotlin\r\n */\r\npublic external abstract class SVGSwitchElement : SVGGraphicsElement {\r\n}\r\n\r\npublic external interface GetSVGDocument {\r\n fun getSVGDocument(): Document\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGStyleElement](https://developer.mozilla.org/en/docs/Web/API/SVGStyleElement) to Kotlin\r\n */\r\npublic external abstract class SVGStyleElement : SVGElement, LinkStyle {\r\n open var type: String\r\n open var media: String\r\n open var title: String\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGTransform](https://developer.mozilla.org/en/docs/Web/API/SVGTransform) to Kotlin\r\n */\r\npublic external abstract class SVGTransform {\r\n open val type: Short\r\n open val matrix: DOMMatrix\r\n open val angle: Float\r\n fun setMatrix(matrix: DOMMatrixReadOnly): Unit\r\n fun setTranslate(tx: Float, ty: Float): Unit\r\n fun setScale(sx: Float, sy: Float): Unit\r\n fun setRotate(angle: Float, cx: Float, cy: Float): Unit\r\n fun setSkewX(angle: Float): Unit\r\n fun setSkewY(angle: Float): Unit\r\n\r\n companion object {\r\n val SVG_TRANSFORM_UNKNOWN: Short\r\n val SVG_TRANSFORM_MATRIX: Short\r\n val SVG_TRANSFORM_TRANSLATE: Short\r\n val SVG_TRANSFORM_SCALE: Short\r\n val SVG_TRANSFORM_ROTATE: Short\r\n val SVG_TRANSFORM_SKEWX: Short\r\n val SVG_TRANSFORM_SKEWY: Short\r\n }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGTransformList) to Kotlin\r\n */\r\npublic external abstract class SVGTransformList {\r\n open val length: Int\r\n open val numberOfItems: Int\r\n fun clear(): Unit\r\n fun initialize(newItem: SVGTransform): SVGTransform\r\n fun getItem(index: Int): SVGTransform\r\n fun insertItemBefore(newItem: SVGTransform, index: Int): SVGTransform\r\n fun replaceItem(newItem: SVGTransform, index: Int): SVGTransform\r\n fun removeItem(index: Int): SVGTransform\r\n fun appendItem(newItem: SVGTransform): SVGTransform\r\n fun createSVGTransformFromMatrix(matrix: DOMMatrixReadOnly): SVGTransform\r\n fun consolidate(): SVGTransform?\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun SVGTransformList.get(index: Int): SVGTransform? = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun SVGTransformList.set(index: Int, newItem: SVGTransform): Unit { asDynamic()[index] = newItem; }\r\n\r\n/**\r\n * Exposes the JavaScript [SVGAnimatedTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedTransformList) to Kotlin\r\n */\r\npublic external abstract class SVGAnimatedTransformList {\r\n open val baseVal: SVGTransformList\r\n open val animVal: SVGTransformList\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGPreserveAspectRatio) to Kotlin\r\n */\r\npublic external abstract class SVGPreserveAspectRatio {\r\n open var align: Short\r\n open var meetOrSlice: Short\r\n\r\n companion object {\r\n val SVG_PRESERVEASPECTRATIO_UNKNOWN: Short\r\n val SVG_PRESERVEASPECTRATIO_NONE: Short\r\n val SVG_PRESERVEASPECTRATIO_XMINYMIN: Short\r\n val SVG_PRESERVEASPECTRATIO_XMIDYMIN: Short\r\n val SVG_PRESERVEASPECTRATIO_XMAXYMIN: Short\r\n val SVG_PRESERVEASPECTRATIO_XMINYMID: Short\r\n val SVG_PRESERVEASPECTRATIO_XMIDYMID: Short\r\n val SVG_PRESERVEASPECTRATIO_XMAXYMID: Short\r\n val SVG_PRESERVEASPECTRATIO_XMINYMAX: Short\r\n val SVG_PRESERVEASPECTRATIO_XMIDYMAX: Short\r\n val

SVG_PRESERVEASPECTRATIO_XMAXYMAX: Short\r\n val SVG_MEETORSLICE_UNKNOWN: Short\r\n val SVG_MEETORSLICE_MEET: Short\r\n val SVG_MEETORSLICE_SLICE: Short\r\n }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGAnimatedPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPreserveAspectRatio) to Kotlin\r\n */\r\npublic external abstract class SVGAnimatedPreserveAspectRatio {\r\n open val baseVal: SVGPreserveAspectRatio\r\n open val animVal: SVGPreserveAspectRatio\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGPathElement) to Kotlin\r\n */\r\npublic external abstract class SVGPathElement : SVGGeometryElement {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGRectElement](https://developer.mozilla.org/en/docs/Web/API/SVGRectElement) to Kotlin\r\n */\r\npublic external abstract class SVGRectElement : SVGGeometryElement {\r\n open val x: SVGAnimatedLength\r\n open val y: SVGAnimatedLength\r\n open val width: SVGAnimatedLength\r\n open val height: SVGAnimatedLength\r\n open val rx: SVGAnimatedLength\r\n open val ry: SVGAnimatedLength\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGCircleElement](https://developer.mozilla.org/en/docs/Web/API/SVGCircleElement) to Kotlin\r\n */\r\npublic external abstract class SVGCircleElement : SVGGeometryElement {\r\n open val cx: SVGAnimatedLength\r\n open val cy: SVGAnimatedLength\r\n open val r: SVGAnimatedLength\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGEllipseElement](https://developer.mozilla.org/en/docs/Web/API/SVGEllipseElement) to Kotlin\r\n */\r\npublic external abstract class SVGEllipseElement : SVGGeometryElement {\r\n open val cx: SVGAnimatedLength\r\n open val cy: SVGAnimatedLength\r\n open val rx: SVGAnimatedLength\r\n open val ry: SVGAnimatedLength\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGLineElement](https://developer.mozilla.org/en/docs/Web/API/SVGLineElement) to Kotlin\r\n */\r\npublic external abstract class SVGLineElement : SVGGeometryElement {\r\n open val x1: SVGAnimatedLength\r\n open val y1: SVGAnimatedLength\r\n open val x2: SVGAnimatedLength\r\n open val y2: SVGAnimatedLength\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGMeshElement](https://developer.mozilla.org/en/docs/Web/API/SVGMeshElement) to Kotlin\r\n */\r\npublic external abstract class SVGMeshElement : SVGGeometryElement, SVGURIReference {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGAnimatedPoints](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPoints) to Kotlin\r\n */\r\npublic external interface SVGAnimatedPoints {\r\n val points: SVGPointList\r\n val animatedPoints: SVGPointList\r\n}\r\n\r\npublic external abstract class SVGPointList {\r\n open val length: Int\r\n open val numberOfItems: Int\r\n fun clear(): Unit\r\n fun initialize(newItem: DOMPoint): DOMPoint\r\n fun getItem(index: Int): DOMPoint\r\n fun insertItemBefore(newItem: DOMPoint, index: Int): DOMPoint\r\n fun replaceItem(newItem: DOMPoint, index: Int): DOMPoint\r\n fun removeItem(index: Int): DOMPoint\r\n fun appendItem(newItem: DOMPoint): DOMPoint\r\n}\r\n@kotlin.internal.InlineOnly inline operator fun SVGPointList.get(index: Int): DOMPoint? = asDynamic()[index]\r\n@kotlin.internal.InlineOnly inline operator fun SVGPointList.set(index: Int, newItem: DOMPoint): Unit { asDynamic()[index] = newItem; }\r\n\r\n/**\r\n * Exposes the JavaScript [SVGPolylineElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolylineElement) to Kotlin\r\n */\r\npublic external abstract class SVGPolylineElement : SVGGeometryElement, SVGAnimatedPoints {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGPolygonElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolygonElement) to Kotlin\r\n */\r\npublic external abstract class SVGPolygonElement : SVGGeometryElement, SVGAnimatedPoints {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGTextContentElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextContentElement) to Kotlin\r\n */\r\npublic external abstract class SVGTextContentElement : SVGGraphicsElement {\r\n open val textLength: SVGAnimatedLength\r\n open val lengthAdjust: SVGAnimatedEnumeration\r\n fun getNumberOfChars(): Int\r\n fun getComputedTextLength(): Float\r\n fun getSubStringLength(charnum: Int, nchars: Int): Float\r\n fun getStartPositionOfChar(charnum: Int): DOMPoint\r\n fun getEndPositionOfChar(charnum: Int):

DOMPoint\r\n   fun getExtentOfChar(charnum: Int): DOMRect\r\n   fun getRotationOfChar(charnum: Int): Float\r\n   fun getCharNumAtPosition(point: DOMPoint): Int\r\n   fun selectSubString(charnum: Int, nchars: Int): Unit\r\n\r\n   companion object {\r\n   val LENGTHADJUST_UNKNOWN: Short\r\n   val LENGTHADJUST_SPACING: Short\r\n   val LENGTHADJUST_SPACINGANDGLYPHS: Short\r\n   }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGTextPositioningElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPositioningElement) to Kotlin\r\n */\r\npublic external abstract class SVGTextPositioningElement : SVGTextContentElement {\r\n   open val x: SVGAnimatedLengthList\r\n   open val y: SVGAnimatedLengthList\r\n   open val dx: SVGAnimatedLengthList\r\n   open val dy: SVGAnimatedLengthList\r\n   open val rotate: SVGAnimatedNumberList\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGTextElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextElement) to Kotlin\r\n */\r\npublic external abstract class SVGTextElement : SVGTextPositioningElement {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGTSpanElement](https://developer.mozilla.org/en/docs/Web/API/SVGTSpanElement) to Kotlin\r\n */\r\npublic external abstract class SVGTSpanElement : SVGTextPositioningElement {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGTextPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPathElement) to Kotlin\r\n */\r\npublic external abstract class SVGTextPathElement : SVGTextContentElement, SVGURIReference {\r\n   open val startOffset: SVGAnimatedLength\r\n   open val method: SVGAnimatedEnumeration\r\n   open val spacing: SVGAnimatedEnumeration\r\n\r\n   companion object {\r\n   val TEXTPATH_METHODTYPE_UNKNOWN: Short\r\n   val TEXTPATH_METHODTYPE_ALIGN: Short\r\n   val TEXTPATH_METHODTYPE_STRETCH: Short\r\n   val TEXTPATH_SPACINGTYPE_UNKNOWN: Short\r\n   val TEXTPATH_SPACINGTYPE_AUTO: Short\r\n   val TEXTPATH_SPACINGTYPE_EXACT: Short\r\n   }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGImageElement](https://developer.mozilla.org/en/docs/Web/API/SVGImageElement) to Kotlin\r\n */\r\npublic external abstract class SVGImageElement : SVGGraphicsElement, SVGURIReference, HTMLOrSVGImageElement {\r\n   open val x: SVGAnimatedLength\r\n   open val y: SVGAnimatedLength\r\n   open val width: SVGAnimatedLength\r\n   open val height: SVGAnimatedLength\r\n   open val preserveAspectRatio: SVGAnimatedPreserveAspectRatio\r\n   open var crossOrigin: String?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGForeignObjectElement](https://developer.mozilla.org/en/docs/Web/API/SVGForeignObjectElement) to Kotlin\r\n */\r\npublic external abstract class SVGForeignObjectElement : SVGGraphicsElement {\r\n   open val x: SVGAnimatedLength\r\n   open val y: SVGAnimatedLength\r\n   open val width: SVGAnimatedLength\r\n   open val height: SVGAnimatedLength\r\n}\r\n\r\npublic external abstract class SVGMarkerElement : SVGElement, SVGFitToViewBox {\r\n   open val refX: SVGAnimatedLength\r\n   open val refY: SVGAnimatedLength\r\n   open val markerUnits: SVGAnimatedEnumeration\r\n   open val markerWidth: SVGAnimatedLength\r\n   open val markerHeight: SVGAnimatedLength\r\n   open val orientType: SVGAnimatedEnumeration\r\n   open val orientAngle: SVGAnimatedAngle\r\n   open var orient: String\r\n   fun setOrientToAuto(): Unit\r\n   fun setOrientToAngle(angle: SVGAngle): Unit\r\n\r\n   companion object {\r\n   val SVG_MARKERUNITS_UNKNOWN: Short\r\n   val SVG_MARKERUNITS_USERSPACEONUSE: Short\r\n   val SVG_MARKERUNITS_STROKEWIDTH: Short\r\n   val SVG_MARKER_ORIENT_UNKNOWN: Short\r\n   val SVG_MARKER_ORIENT_AUTO: Short\r\n   val SVG_MARKER_ORIENT_ANGLE: Short\r\n   }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGSolidcolorElement](https://developer.mozilla.org/en/docs/Web/API/SVGSolidcolorElement) to Kotlin\r\n */\r\npublic external abstract class SVGSolidcolorElement : SVGElement {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGGradientElement) to Kotlin\r\n */\r\npublic external abstract class SVGGradientElement : SVGElement, SVGURIReference, SVGUnitTypes {\r\n   open val gradientUnits: SVGAnimatedEnumeration\r\n   open val gradientTransform: SVGAnimatedTransformList\r\n   open val spreadMethod: SVGAnimatedEnumeration\r\n\r\n   companion object {\r\n   val SVG_SPREADMETHOD_UNKNOWN: Short\r\n   val SVG_SPREADMETHOD_PAD: Short\r\n

val SVG_SPREADMETHOD_REFLECT: Short\r\n val SVG_SPREADMETHOD_REPEAT: Short\r\n val SVG_UNIT_TYPE_UNKNOWN: Short\r\n val SVG_UNIT_TYPE_USERSPACEONUSE: Short\r\n val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\r\n }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGLinearGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGLinearGradientElement) to Kotlin\r\n */\r\npublic external abstract class SVGLinearGradientElement : SVGGradientElement {\r\n open val x1: SVGAnimatedLength\r\n open val y1: SVGAnimatedLength\r\n open val x2: SVGAnimatedLength\r\n open val y2: SVGAnimatedLength\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGRadialGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGRadialGradientElement) to Kotlin\r\n */\r\npublic external abstract class SVGRadialGradientElement : SVGGradientElement {\r\n open val cx: SVGAnimatedLength\r\n open val cy: SVGAnimatedLength\r\n open val r: SVGAnimatedLength\r\n open val fx: SVGAnimatedLength\r\n open val fy: SVGAnimatedLength\r\n open val fr: SVGAnimatedLength\r\n}\r\n\r\npublic external abstract class SVGMeshGradientElement : SVGGradientElement {\r\n}\r\n\r\npublic external abstract class SVGMeshrowElement : SVGElement {\r\n}\r\n\r\npublic external abstract class SVGMeshpatchElement : SVGElement {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGStopElement](https://developer.mozilla.org/en/docs/Web/API/SVGStopElement) to Kotlin\r\n */\r\npublic external abstract class SVGStopElement : SVGElement {\r\n open val offset: SVGAnimatedNumber\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGPatternElement](https://developer.mozilla.org/en/docs/Web/API/SVGPatternElement) to Kotlin\r\n */\r\npublic external abstract class SVGPatternElement : SVGElement, SVGFitToViewBox, SVGURIReference, SVGUnitTypes {\r\n open val patternUnits: SVGAnimatedEnumeration\r\n open val patternContentUnits: SVGAnimatedEnumeration\r\n open val patternTransform: SVGAnimatedTransformList\r\n open val x: SVGAnimatedLength\r\n open val y: SVGAnimatedLength\r\n open val width: SVGAnimatedLength\r\n open val height: SVGAnimatedLength\r\n\r\n companion object {\r\n val SVG_UNIT_TYPE_UNKNOWN: Short\r\n val SVG_UNIT_TYPE_USERSPACEONUSE: Short\r\n val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\r\n }\r\n}\r\n\r\npublic external abstract class SVGHatchElement : SVGElement {\r\n}\r\n\r\npublic external abstract class SVGHatchpathElement : SVGElement {\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGCursorElement](https://developer.mozilla.org/en/docs/Web/API/SVGCursorElement) to Kotlin\r\n */\r\npublic external abstract class SVGCursorElement : SVGElement, SVGURIReference {\r\n open val x: SVGAnimatedLength\r\n open val y: SVGAnimatedLength\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGScriptElement](https://developer.mozilla.org/en/docs/Web/API/SVGScriptElement) to Kotlin\r\n */\r\npublic external abstract class SVGScriptElement : SVGElement, SVGURIReference, HTMLOrSVGScriptElement {\r\n open var type: String\r\n open var crossOrigin: String?\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGAElement](https://developer.mozilla.org/en/docs/Web/API/SVGAElement) to Kotlin\r\n */\r\npublic external abstract class SVGAElement : SVGGraphicsElement, SVGURIReference {\r\n open val target: SVGAnimatedString\r\n open val download: SVGAnimatedString\r\n open val rel: SVGAnimatedString\r\n open val relList: SVGAnimatedString\r\n open val hreflang: SVGAnimatedString\r\n open val type: SVGAnimatedString\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [SVGViewElement](https://developer.mozilla.org/en/docs/Web/API/SVGViewElement) to Kotlin\r\n */\r\npublic external abstract class SVGViewElement : SVGElement, SVGFitToViewBox, SVGZoomAndPan {\r\n\r\n companion object {\r\n val SVG_ZOOMANDPAN_UNKNOWN: Short\r\n val SVG_ZOOMANDPAN_DISABLE: Short\r\n val SVG_ZOOMANDPAN_MAGNIFY: Short\r\n }\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\r\n// See libraries/tools/idl2k for details\r\n\r\n@file:Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\r\npackage org.w3c.files\r\n\r\nimport kotlin.js.*\r\nimport org.khronos.webgl.*\r\nimport org.w3c.css.masking.*\r\nimport org.w3c.dom.*\r\nimport org.w3c.dom.clipboard.*\r\nimport org.w3c.dom.css.*\r\nimport

org.w3c.dom.events.*\r\nimport org.w3c.dom.mediacapture.*\r\nimport org.w3c.dom.parsing.*\r\nimport org.w3c.dom.pointerevents.*\r\nimport org.w3c.dom.svg.*\r\nimport org.w3c.dom.url.*\r\nimport org.w3c.fetch.*\r\nimport org.w3c.notifications.*\r\nimport org.w3c.performance.*\r\nimport org.w3c.workers.*\r\nimport org.w3c.xhr.*\r\n\r\n/**\r\n * Exposes the JavaScript [Blob](https://developer.mozilla.org/en/docs/Web/API/Blob) to Kotlin\r\n */\r\npublic external open class Blob(blobParts: Array<dynamic> = definedExternally, options: BlobPropertyBag = definedExternally) {\r\n   open val size: Int\r\n   open val type: String\r\n   open val isClosed: Boolean\r\n   fun slice(start: Int = definedExternally, end: Int = definedExternally, contentType: String = definedExternally): Blob\r\n   fun close(): Unit\r\n}\r\n\r\npublic external interface BlobPropertyBag {\r\n   var type: String? /* = \"\" */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun BlobPropertyBag(type: String? = \"\"): BlobPropertyBag {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"type\"] = type\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [File](https://developer.mozilla.org/en/docs/Web/API/File) to Kotlin\r\n */\r\npublic external open class File(fileBits: Array<dynamic>, fileName: String, options: FilePropertyBag = definedExternally) : Blob {\r\n   open val name: String\r\n   open val lastModified: Int\r\n}\r\n\r\npublic external interface FilePropertyBag : BlobPropertyBag {\r\n   var lastModified: Int?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun FilePropertyBag(lastModified: Int? = undefined, type: String? = \"\"): FilePropertyBag {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"lastModified\"] = lastModified\r\n   o[\"type\"] = type\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [FileList](https://developer.mozilla.org/en/docs/Web/API/FileList) to Kotlin\r\n */\r\npublic external abstract class FileList : ItemArrayLike<File> {\r\n   override val length: Int\r\n   override fun item(index: Int): File?\r\n}\r\n\r\n@kotlin.internal.InlineOnly inline operator fun FileList.get(index: Int): File? = asDynamic()[index]\r\n\r\n/**\r\n * Exposes the JavaScript [FileReader](https://developer.mozilla.org/en/docs/Web/API/FileReader) to Kotlin\r\n */\r\npublic external open class FileReader : EventTarget {\r\n   open val readyState: Short\r\n   open val result: dynamic\r\n   open val error: dynamic\r\n   var onloadstart: ((ProgressEvent) -> dynamic)?\r\n   var onprogress: ((ProgressEvent) -> dynamic)?\r\n   var onload: ((Event) -> dynamic)?\r\n   var onabort: ((Event) -> dynamic)?\r\n   var onerror: ((Event) -> dynamic)?\r\n   var onloadend: ((Event) -> dynamic)?\r\n   fun readAsArrayBuffer(blob: Blob): Unit\r\n   fun readAsBinaryString(blob: Blob): Unit\r\n   fun readAsText(blob: Blob, label: String = definedExternally): Unit\r\n   fun readAsDataURL(blob: Blob): Unit\r\n   fun abort(): Unit\r\n\r\n   companion object {\r\n   val EMPTY: Short\r\n   val LOADING: Short\r\n   val DONE: Short\r\n   }\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [FileReaderSync](https://developer.mozilla.org/en/docs/Web/API/FileReaderSync) to Kotlin\r\n */\r\npublic external open class FileReaderSync {\r\n   fun readAsArrayBuffer(blob: Blob): ArrayBuffer\r\n   fun readAsBinaryString(blob: Blob): String\r\n   fun readAsText(blob: Blob, label: String = definedExternally): String\r\n   fun readAsDataURL(blob: Blob): String\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\r\n// See libraries/tools/idl2k for details\r\n\r\n@file:Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\r\npackage org.w3c.notifications\r\n\r\nimport kotlin.js.*\r\nimport org.khronos.webgl.*\r\nimport org.w3c.css.masking.*\r\nimport org.w3c.dom.*\r\nimport org.w3c.dom.clipboard.*\r\nimport org.w3c.dom.css.*\r\nimport org.w3c.dom.events.*\r\nimport org.w3c.dom.mediacapture.*\r\nimport org.w3c.dom.parsing.*\r\nimport org.w3c.dom.pointerevents.*\r\nimport org.w3c.dom.svg.*\r\nimport org.w3c.dom.url.*\r\nimport org.w3c.fetch.*\r\nimport org.w3c.files.*\r\nimport org.w3c.performance.*\r\nimport org.w3c.workers.*\r\nimport org.w3c.xhr.*\r\n\r\n/**\r\n * Exposes the JavaScript [Notification](https://developer.mozilla.org/en/docs/Web/API/Notification) to Kotlin\r\n */\r\npublic external open class Notification(title: String, options: NotificationOptions = definedExternally) : EventTarget {\r\n   var onclick: ((MouseEvent) -> dynamic)?\r\n   var onerror: ((Event) -> dynamic)?\r\n   open val title: String\r\n   open val dir:

NotificationDirection\r\n   open val lang: String\r\n   open val body: String\r\n   open val tag: String\r\n   open val image: String\r\n   open val icon: String\r\n   open val badge: String\r\n   open val sound: String\r\n   open val vibrate: Array<out Int>\r\n   open val timestamp: Number\r\n   open val renotify: Boolean\r\n   open val silent: Boolean\r\n   open val noscreen: Boolean\r\n   open val requireInteraction: Boolean\r\n   open val sticky: Boolean\r\n   open val data: Any?\r\n   open val actions: Array<out NotificationAction>\r\n   fun close(): Unit\r\n\r\n   companion object {\r\n   var permission: NotificationPermission\r\n   var maxActions: Int\r\n   fun requestPermission(deprecatedCallback: (NotificationPermission) -> Unit = definedExternally): Promise<NotificationPermission>\r\n   }\r\n}\r\n\r\npublic external interface NotificationOptions {\r\n   var dir: NotificationDirection? /* = NotificationDirection.AUTO */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var lang: String? /* = \"\" */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var body: String? /* = \"\" */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var tag: String? /* = \"\" */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var image: String?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var icon: String?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var badge: String?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var sound: String?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var vibrate: dynamic\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var timestamp: Number?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var renotify: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var silent: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var noscreen: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var requireInteraction: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var sticky: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var data: Any? /* = null */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var actions: Array<NotificationAction>? /* = arrayOf() */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun NotificationOptions(dir: NotificationDirection? = NotificationDirection.AUTO, lang: String? = \"\", body: String? = \"\", tag: String? = \"\", image: String? = undefined, icon: String? = undefined, badge: String? = undefined, sound: String? = undefined, vibrate: dynamic = undefined, timestamp: Number? = undefined, renotify: Boolean? = false, silent: Boolean? = false, noscreen: Boolean? = false, requireInteraction: Boolean? = false, sticky: Boolean? = false, data: Any? = null, actions: Array<NotificationAction>? = arrayOf()): NotificationOptions {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"dir\"] = dir\r\n   o[\"lang\"] = lang\r\n   o[\"body\"] = body\r\n   o[\"tag\"] = tag\r\n   o[\"image\"] = image\r\n   o[\"icon\"] = icon\r\n   o[\"badge\"] = badge\r\n   o[\"sound\"] = sound\r\n   o[\"vibrate\"] = vibrate\r\n   o[\"timestamp\"] = timestamp\r\n   o[\"renotify\"] = renotify\r\n   o[\"silent\"] = silent\r\n   o[\"noscreen\"] = noscreen\r\n   o[\"requireInteraction\"] = requireInteraction\r\n   o[\"sticky\"] = sticky\r\n   o[\"data\"] = data\r\n   o[\"actions\"] = actions\r\n\r\n   return o\r\n}\r\n\r\npublic external interface NotificationAction {\r\n   var action: String?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var title: String?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var icon: String?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun NotificationAction(action: String?, title: String?, icon: String? = undefined): NotificationAction {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"action\"] = action\r\n   o[\"title\"] = title\r\n   o[\"icon\"] = icon\r\n\r\n   return o\r\n}\r\n\r\npublic external interface GetNotificationOptions {\r\n   var tag: String? /* = \"\" */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun GetNotificationOptions(tag: String? = \"\"): GetNotificationOptions {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"tag\"] = tag\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [NotificationEvent](https://developer.mozilla.org/en/docs/Web/API/NotificationEvent) to Kotlin\r\n */\r\npublic external open class NotificationEvent(type: String, eventInitDict: NotificationEventInit) : ExtendableEvent {\r\n   open val notification: Notification\r\n   open val action: String\r\n}\r\n\r\npublic external interface

NotificationEventInit : ExtendableEventInit {\r\n   var notification: Notification?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var action: String? /* = \"\" */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun NotificationEventInit(notification: Notification?, action: String? = \"\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): NotificationEventInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"notification\"] = notification\r\n   o[\"action\"] = action\r\n   o[\"bubbles\"] = bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface NotificationPermission {\r\n   companion object\r\n}\r\npublic inline val NotificationPermission.Companion.DEFAULT: NotificationPermission get() = \"default\".asDynamic().unsafeCast<NotificationPermission>()\r\npublic inline val NotificationPermission.Companion.DENIED: NotificationPermission get() = \"denied\".asDynamic().unsafeCast<NotificationPermission>()\r\npublic inline val NotificationPermission.Companion.GRANTED: NotificationPermission get() = \"granted\".asDynamic().unsafeCast<NotificationPermission>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface NotificationDirection {\r\n   companion object\r\n}\r\npublic inline val NotificationDirection.Companion.AUTO: NotificationDirection get() = \"auto\".asDynamic().unsafeCast<NotificationDirection>()\r\npublic inline val NotificationDirection.Companion.LTR: NotificationDirection get() = \"ltr\".asDynamic().unsafeCast<NotificationDirection>()\r\npublic inline val NotificationDirection.Companion.RTL: NotificationDirection get() = \"rtl\".asDynamic().unsafeCast<NotificationDirection>()\r\n\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\r\n// See libraries/tools/idl2k for details\r\n\r\n@file:Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\r\npackage org.w3c.workers\r\n\r\nimport kotlin.js.*\r\nimport org.khronos.webgl.*\r\nimport org.w3c.css.masking.*\r\nimport org.w3c.dom.*\r\nimport org.w3c.dom.clipboard.*\r\nimport org.w3c.dom.css.*\r\nimport org.w3c.dom.events.*\r\nimport org.w3c.dom.mediacapture.*\r\nimport org.w3c.dom.parsing.*\r\nimport org.w3c.dom.pointerevents.*\r\nimport org.w3c.dom.svg.*\r\nimport org.w3c.dom.url.*\r\nimport org.w3c.fetch.*\r\nimport org.w3c.files.*\r\nimport org.w3c.notifications.*\r\nimport org.w3c.performance.*\r\nimport org.w3c.xhr.*\r\n\r\n/**\r\n * Exposes the JavaScript [ServiceWorkerRegistration](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerRegistration) to Kotlin\r\n */\r\npublic external abstract class ServiceWorkerRegistration : EventTarget {\r\n   open val installing: ServiceWorker?\r\n   open val waiting: ServiceWorker?\r\n   open val active: ServiceWorker?\r\n   open val scope: String\r\n   open var onupdatefound: ((Event) -> dynamic)?\r\n   open val APISpace: dynamic\r\n   fun update(): Promise<Unit>\r\n   fun unregister(): Promise<Boolean>\r\n   fun methodName(): Promise<dynamic>\r\n   fun showNotification(title: String, options: NotificationOptions = definedExternally): Promise<Unit>\r\n   fun getNotifications(filter: GetNotificationOptions = definedExternally): Promise<dynamic>\r\n}\r\n\r\n\r\n/**\r\n * Exposes the JavaScript [ServiceWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerGlobalScope) to Kotlin\r\n */\r\npublic external abstract class ServiceWorkerGlobalScope : WorkerGlobalScope {\r\n   open val clients: Clients\r\n   open val registration: ServiceWorkerRegistration\r\n   open var oninstall: ((Event) -> dynamic)?\r\n   open var onactivate: ((Event) -> dynamic)?\r\n   open var onfetch: ((FetchEvent) -> dynamic)?\r\n   open var onforeignfetch: ((Event) -> dynamic)?\r\n   open var onmessage: ((MessageEvent) -> dynamic)?\r\n   open var onfunctionalevent: ((Event) -> dynamic)?\r\n   open var onnotificationclick: ((NotificationEvent) -> dynamic)?\r\n   open var onnotificationclose: ((NotificationEvent) -> dynamic)?\r\n   fun skipWaiting(): Promise<Unit>\r\n}\r\n\r\n\r\n/**\r\n * Exposes the JavaScript [ServiceWorker](https://developer.mozilla.org/en/docs/Web/API/ServiceWorker) to Kotlin\r\n */\r\npublic external

abstract class ServiceWorker : EventTarget, AbstractWorker, UnionMessagePortOrServiceWorker, UnionClientOrMessagePortOrServiceWorker {\r\n   open val scriptURL: String\r\n   open val state: ServiceWorkerState\r\n   open var onstatechange: ((Event) -> dynamic)?\r\n   fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ServiceWorkerContainer](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerContainer) to Kotlin\r\n */\r\npublic external abstract class ServiceWorkerContainer : EventTarget {\r\n   open val controller: ServiceWorker?\r\n   open val ready: Promise<ServiceWorkerRegistration>\r\n   open var oncontrollerchange: ((Event) -> dynamic)?\r\n   open var onmessage: ((MessageEvent) -> dynamic)?\r\n   fun register(scriptURL: String, options: RegistrationOptions = definedExternally): Promise<ServiceWorkerRegistration>\r\n   fun getRegistration(clientURL: String = definedExternally): Promise<Any?>\r\n   fun getRegistrations(): Promise<dynamic>\r\n   fun startMessages(): Unit\r\n}\r\n\r\npublic external interface RegistrationOptions {\r\n   var scope: String?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var type: WorkerType? /* = WorkerType.CLASSIC */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun RegistrationOptions(scope: String? = undefined, type: WorkerType? = WorkerType.CLASSIC): RegistrationOptions {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"scope\"] = scope\r\n   o[\"type\"] = type\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ServiceWorkerMessageEvent](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerMessageEvent) to Kotlin\r\n */\r\npublic external open class ServiceWorkerMessageEvent(type: String, eventInitDict: ServiceWorkerMessageEventInit = definedExternally) : Event {\r\n   open val data: Any?\r\n   open val origin: String\r\n   open val lastEventId: String\r\n   open val source: UnionMessagePortOrServiceWorker?\r\n   open val ports: Array<out MessagePort>?\r\n}\r\n\r\npublic external interface ServiceWorkerMessageEventInit : EventInit {\r\n   var data: Any?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var origin: String?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var lastEventId: String?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var source: UnionMessagePortOrServiceWorker?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var ports: Array<MessagePort>?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ServiceWorkerMessageEventInit(data: Any? = undefined, origin: String? = undefined, lastEventId: String? = undefined, source: UnionMessagePortOrServiceWorker? = undefined, ports: Array<MessagePort>? = undefined, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ServiceWorkerMessageEventInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"data\"] = data\r\n   o[\"origin\"] = origin\r\n   o[\"lastEventId\"] = lastEventId\r\n   o[\"source\"] = source\r\n   o[\"ports\"] = ports\r\n   o[\"bubbles\"] = bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Client](https://developer.mozilla.org/en/docs/Web/API/Client) to Kotlin\r\n */\r\npublic external abstract class Client : UnionClientOrMessagePortOrServiceWorker {\r\n   open val url: String\r\n   open val frameType: FrameType\r\n   open val id: String\r\n   fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [WindowClient](https://developer.mozilla.org/en/docs/Web/API/WindowClient) to Kotlin\r\n */\r\npublic external abstract class WindowClient : Client {\r\n   open val visibilityState: dynamic\r\n   open val focused: Boolean\r\n   fun focus(): Promise<WindowClient>\r\n   fun navigate(url: String): Promise<WindowClient>\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Clients](https://developer.mozilla.org/en/docs/Web/API/Clients) to Kotlin\r\n */\r\npublic external abstract class Clients {\r\n   fun get(id: String): Promise<Any?>\r\n   fun matchAll(options: ClientQueryOptions = definedExternally): Promise<dynamic>\r\n   fun openWindow(url: String): Promise<WindowClient?>\r\n   fun claim(): Promise<Unit>\r\n}\r\n\r\npublic external interface ClientQueryOptions {\r\n   var includeUncontrolled: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var type: ClientType? /* = ClientType.WINDOW */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ClientQueryOptions(includeUncontrolled: Boolean? = false, type: ClientType? = ClientType.WINDOW):

ClientQueryOptions {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"includeUncontrolled\"] = includeUncontrolled\r\n   o[\"type\"] = type\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ExtendableEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableEvent) to Kotlin\r\n */\r\npublic external open class ExtendableEvent(type: String, eventInitDict: ExtendableEventInit = definedExternally) : Event {\r\n   fun waitUntil(f: Promise<Any?>): Unit\r\n}\r\n\r\npublic external interface ExtendableEventInit : EventInit {\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ExtendableEventInit(bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ExtendableEventInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"bubbles\"] = bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [InstallEvent](https://developer.mozilla.org/en/docs/Web/API/InstallEvent) to Kotlin\r\n */\r\npublic external open class InstallEvent(type: String, eventInitDict: ExtendableEventInit = definedExternally) : ExtendableEvent {\r\n   fun registerForeignFetch(options: ForeignFetchOptions): Unit\r\n}\r\n\r\npublic external interface ForeignFetchOptions {\r\n   var scopes: Array<String>?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var origins: Array<String>?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ForeignFetchOptions(scopes: Array<String>?, origins: Array<String>?): ForeignFetchOptions {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"scopes\"] = scopes\r\n   o[\"origins\"] = origins\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [FetchEvent](https://developer.mozilla.org/en/docs/Web/API/FetchEvent) to Kotlin\r\n */\r\npublic external open class FetchEvent(type: String, eventInitDict: FetchEventInit) : ExtendableEvent {\r\n   open val request: Request\r\n   open val clientId: String?\r\n   open val isReload: Boolean\r\n   fun respondWith(r: Promise<Response>): Unit\r\n}\r\n\r\npublic external interface FetchEventInit : ExtendableEventInit {\r\n   var request: Request?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var clientId: String? /* = null */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var isReload: Boolean? /* = false */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun FetchEventInit(request: Request?, clientId: String? = null, isReload: Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): FetchEventInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"request\"] = request\r\n   o[\"clientId\"] = clientId\r\n   o[\"isReload\"] = isReload\r\n   o[\"bubbles\"] = bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\npublic external open class ForeignFetchEvent(type: String, eventInitDict: ForeignFetchEventInit) : ExtendableEvent {\r\n   open val request: Request\r\n   open val origin: String\r\n   fun respondWith(r: Promise<ForeignFetchResponse>): Unit\r\n}\r\n\r\npublic external interface ForeignFetchEventInit : ExtendableEventInit {\r\n   var request: Request?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var origin: String? /* = \"null\" */\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ForeignFetchEventInit(request: Request?, origin: String? = \"null\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ForeignFetchEventInit {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"request\"] = request\r\n   o[\"origin\"] = origin\r\n   o[\"bubbles\"] = bubbles\r\n   o[\"cancelable\"] = cancelable\r\n   o[\"composed\"] = composed\r\n\r\n   return o\r\n}\r\n\r\npublic external interface ForeignFetchResponse {\r\n   var response: Response?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var origin: String?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n   var headers: Array<String>?\r\n   get() = definedExternally\r\n   set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ForeignFetchResponse(response: Response?, origin: String? = undefined, headers: Array<String>? = undefined): ForeignFetchResponse {\r\n   val o = js(\"({})\")\r\n\r\n   o[\"response\"] = response\r\n   o[\"origin\"] = origin\r\n   o[\"headers\"] = headers\r\n\r\n   return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ExtendableMessageEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableMessageEvent) to Kotlin\r\n */\r\npublic external open class ExtendableMessageEvent(type: String, eventInitDict: ExtendableMessageEventInit = definedExternally) : ExtendableEvent {\r\n   open val data: Any?\r\n   open val origin: String\r\n   open val lastEventId: String\r\n   open val source: UnionClientOrMessagePortOrServiceWorker?\r\n   open val ports:

Array<out MessagePort>?\r\n}\r\n\r\npublic external interface ExtendableMessageEventInit : ExtendableEventInit {\r\n var data: Any?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var origin: String?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var lastEventId: String?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var source: UnionClientOrMessagePortOrServiceWorker?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var ports: Array<MessagePort>?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ExtendableMessageEventInit(data: Any? = undefined, origin: String? = undefined, lastEventId: String? = undefined, source: UnionClientOrMessagePortOrServiceWorker? = undefined, ports: Array<MessagePort>? = undefined, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ExtendableMessageEventInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"data\"] = data\r\n o[\"origin\"] = origin\r\n o[\"lastEventId\"] = lastEventId\r\n o[\"source\"] = source\r\n o[\"ports\"] = ports\r\n o[\"bubbles\"] = bubbles\r\n o[\"cancelable\"] = cancelable\r\n o[\"composed\"] = composed\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [Cache](https://developer.mozilla.org/en/docs/Web/API/Cache) to Kotlin\r\n */\r\npublic external abstract class Cache {\r\n fun match(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Any?>\r\n fun matchAll(request: dynamic = definedExternally, options: CacheQueryOptions = definedExternally): Promise<dynamic>\r\n fun add(request: dynamic): Promise<Unit>\r\n fun addAll(requests: Array<dynamic>): Promise<Unit>\r\n fun put(request: dynamic, response: Response): Promise<Unit>\r\n fun delete(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Boolean>\r\n fun keys(request: dynamic = definedExternally, options: CacheQueryOptions = definedExternally): Promise<dynamic>\r\n}\r\n\r\npublic external interface CacheQueryOptions {\r\n var ignoreSearch: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var ignoreMethod: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var ignoreVary: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var cacheName: String?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun CacheQueryOptions(ignoreSearch: Boolean? = false, ignoreMethod: Boolean? = false, ignoreVary: Boolean? = false, cacheName: String? = undefined): CacheQueryOptions {\r\n val o = js(\"({})\")\r\n\r\n o[\"ignoreSearch\"] = ignoreSearch\r\n o[\"ignoreMethod\"] = ignoreMethod\r\n o[\"ignoreVary\"] = ignoreVary\r\n o[\"cacheName\"] = cacheName\r\n\r\n return o\r\n}\r\n\r\npublic external interface CacheBatchOperation {\r\n var type: String?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var request: Request?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var response: Response?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var options: CacheQueryOptions?\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun CacheBatchOperation(type: String? = undefined, request: Request? = undefined, response: Response? = undefined, options: CacheQueryOptions? = undefined): CacheBatchOperation {\r\n val o = js(\"({})\")\r\n\r\n o[\"type\"] = type\r\n o[\"request\"] = request\r\n o[\"response\"] = response\r\n o[\"options\"] = options\r\n\r\n return o\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [CacheStorage](https://developer.mozilla.org/en/docs/Web/API/CacheStorage) to Kotlin\r\n */\r\npublic external abstract class CacheStorage {\r\n fun match(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Any?>\r\n fun has(cacheName: String): Promise<Boolean>\r\n fun open(cacheName: String): Promise<Cache>\r\n fun delete(cacheName: String): Promise<Boolean>\r\n fun keys(): Promise<dynamic>\r\n}\r\n\r\npublic external open class FunctionalEvent : ExtendableEvent {\r\n}\r\n\r\npublic external @marker interface UnionClientOrMessagePortOrServiceWorker {\r\n}\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface ServiceWorkerState {\r\n companion object\r\n}\r\npublic inline val ServiceWorkerState.Companion.INSTALLING: ServiceWorkerState get() = \"installing\".asDynamic().unsafeCast<ServiceWorkerState>()\r\npublic inline val ServiceWorkerState.Companion.INSTALLED: ServiceWorkerState get() = \"installed\".asDynamic().unsafeCast<ServiceWorkerState>()\r\npublic inline val

ServiceWorkerState.Companion.ACTIVATING: ServiceWorkerState get() = \"activating\".asDynamic().unsafeCast<ServiceWorkerState>()\r\npublic inline val ServiceWorkerState.Companion.ACTIVATED: ServiceWorkerState get() = \"activated\".asDynamic().unsafeCast<ServiceWorkerState>()\r\npublic inline val ServiceWorkerState.Companion.REDUNDANT: ServiceWorkerState get() = \"redundant\".asDynamic().unsafeCast<ServiceWorkerState>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface FrameType {\r\n   companion object\r\n}\r\npublic inline val FrameType.Companion.AUXILIARY: FrameType get() = \"auxiliary\".asDynamic().unsafeCast<FrameType>()\r\npublic inline val FrameType.Companion.TOP_LEVEL: FrameType get() = \"top-level\".asDynamic().unsafeCast<FrameType>()\r\npublic inline val FrameType.Companion.NESTED: FrameType get() = \"nested\".asDynamic().unsafeCast<FrameType>()\r\npublic inline val FrameType.Companion.NONE: FrameType get() = \"none\".asDynamic().unsafeCast<FrameType>()\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface ClientType {\r\n   companion object\r\n}\r\npublic inline val ClientType.Companion.WINDOW: ClientType get() = \"window\".asDynamic().unsafeCast<ClientType>()\r\npublic inline val ClientType.Companion.WORKER: ClientType get() = \"worker\".asDynamic().unsafeCast<ClientType>()\r\npublic inline val ClientType.Companion.SHAREDWORKER: ClientType get() = \"sharedworker\".asDynamic().unsafeCast<ClientType>()\r\npublic inline val ClientType.Companion.ALL: ClientType get() = \"all\".asDynamic().unsafeCast<ClientType>()\r\n\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\r\n// See libraries/tools/idl2k for details\r\n\r\n@file:Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\r\npackage org.w3c.xhr\r\n\r\n\r\nimport kotlin.js.*\r\nimport org.khronos.webgl.*\r\nimport org.w3c.css.masking.*\r\nimport org.w3c.dom.*\r\nimport org.w3c.dom.clipboard.*\r\nimport org.w3c.dom.css.*\r\nimport org.w3c.dom.events.*\r\nimport org.w3c.dom.mediacapture.*\r\nimport org.w3c.dom.parsing.*\r\nimport org.w3c.dom.pointerevents.*\r\nimport org.w3c.dom.svg.*\r\nimport org.w3c.dom.url.*\r\nimport org.w3c.fetch.*\r\nimport org.w3c.files.*\r\nimport org.w3c.notifications.*\r\nimport org.w3c.performance.*\r\nimport org.w3c.workers.*\r\n\r\n\r\n/**\r\n * Exposes the JavaScript [XMLHttpRequestEventTarget](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequestEventTarget) to Kotlin\r\n */\r\npublic external abstract class XMLHttpRequestEventTarget : EventTarget {\r\n   open var onloadstart: ((ProgressEvent) -> dynamic)?\r\n   open var onprogress: ((ProgressEvent) -> dynamic)?\r\n   open var onabort: ((Event) -> dynamic)?\r\n   open var onerror: ((Event) -> dynamic)?\r\n   open var onload: ((Event) -> dynamic)?\r\n   open var ontimeout: ((Event) -> dynamic)?\r\n   open var onloadend: ((Event) -> dynamic)?\r\n}\r\n\r\n\r\npublic external abstract class XMLHttpRequestUpload : XMLHttpRequestEventTarget {\r\n}\r\n\r\n\r\n/**\r\n * Exposes the JavaScript [XMLHttpRequest](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequest) to Kotlin\r\n */\r\npublic external open class XMLHttpRequest : XMLHttpRequestEventTarget {\r\n   var onreadystatechange: ((Event) -> dynamic)?\r\n   open val readyState: Short\r\n   var timeout: Int\r\n   var withCredentials: Boolean\r\n   open val upload: XMLHttpRequestUpload\r\n   open val responseURL: String\r\n   open val status: Short\r\n   open val statusText: String\r\n   var responseType: XMLHttpRequestResponseType\r\n   open val response: Any?\r\n   open val responseText: String\r\n   open val responseXML: Document?\r\n   fun open(method: String, url: String): Unit\r\n   fun open(method: String, url: String, async: Boolean, username: String? = definedExternally, password: String? = definedExternally): Unit\r\n   fun setRequestHeader(name: String, value: String): Unit\r\n   fun send(body: dynamic = definedExternally): Unit\r\n   fun abort(): Unit\r\n   fun getResponseHeader(name: String): String?\r\n   fun getAllResponseHeaders(): String\r\n   fun overrideMimeType(mime: String): Unit\r\n\r\n\r\n   companion object {\r\n   val UNSENT: Short\r\n   val OPENED: Short\r\n   val HEADERS_RECEIVED: Short\r\n   val LOADING: Short\r\n   val DONE: Short\r\n   }\r\n}\r\n\r\n\r\n/**\r\n * Exposes the JavaScript

[FormData](https://developer.mozilla.org/en/docs/Web/API/FormData) to Kotlin\r\n */\r\npublic external open class FormData(form: HTMLFormElement = definedExternally) {\r\n fun append(name: String, value: String): Unit\r\n fun append(name: String, value: Blob, filename: String = definedExternally): Unit\r\n fun delete(name: String): Unit\r\n fun get(name: String): dynamic\r\n fun getAll(name: String): Array<dynamic>\r\n fun has(name: String): Boolean\r\n fun set(name: String, value: String): Unit\r\n fun set(name: String, value: Blob, filename: String = definedExternally): Unit\r\n}\r\n\r\n/**\r\n * Exposes the JavaScript [ProgressEvent](https://developer.mozilla.org/en/docs/Web/API/ProgressEvent) to Kotlin\r\n */\r\npublic external open class ProgressEvent(type: String, eventInitDict: ProgressEventInit = definedExternally) : Event {\r\n open val lengthComputable: Boolean\r\n open val loaded: Int\r\n open val total: Int\r\n}\r\n\r\npublic external interface ProgressEventInit : EventInit {\r\n var lengthComputable: Boolean? /* = false */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var loaded: Int? /* = 0 */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n var total: Int? /* = 0 */\r\n get() = definedExternally\r\n set(value) = definedExternally\r\n}\r\n\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ProgressEventInit(lengthComputable: Boolean? = false, loaded: Int? = 0, total: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ProgressEventInit {\r\n val o = js(\"({})\")\r\n\r\n o[\"lengthComputable\"] = lengthComputable\r\n o[\"loaded\"] = loaded\r\n o[\"total\"] = total\r\n o[\"bubbles\"] = bubbles\r\n o[\"cancelable\"] = cancelable\r\n o[\"composed\"] = composed\r\n\r\n return o\r\n}\r\n\r\n/* please, don't implement this interface! */\r\npublic external interface XMLHttpRequestResponseType {\r\n companion object\r\n}\r\npublic inline val XMLHttpRequestResponseType.Companion.EMPTY: XMLHttpRequestResponseType get() = \"\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\r\npublic inline val XMLHttpRequestResponseType.Companion.ARRAYBUFFER: XMLHttpRequestResponseType get() = \"arraybuffer\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\r\npublic inline val XMLHttpRequestResponseType.Companion.BLOB: XMLHttpRequestResponseType get() = \"blob\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\r\npublic inline val XMLHttpRequestResponseType.Companion.DOCUMENT: XMLHttpRequestResponseType get() = \"document\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\r\npublic inline val XMLHttpRequestResponseType.Companion.JSON: XMLHttpRequestResponseType get() = \"json\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\r\npublic inline val XMLHttpRequestResponseType.Companion.TEXT: XMLHttpRequestResponseType get() = \"text\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin\r\n\r\nimport kotlin.annotation.AnnotationRetention.BINARY\r\nimport kotlin.annotation.AnnotationRetention.SOURCE\r\nimport kotlin.annotation.AnnotationTarget.*\r\nimport kotlin.internal.RequireKotlin\r\nimport kotlin.internal.RequireKotlinVersionKind\r\nimport kotlin.reflect.KClass\r\n\r\n/**\r\n * Signals that the annotated annotation class is a marker of an experimental API.\r\n *\r\n * Any declaration annotated with that marker is considered an experimental declaration\r\n * and its call sites should accept the experimental aspect of it either by using [UseExperimental],\r\n * or by being annotated with that marker themselves, effectively causing further propagation of that experimental aspect.\r\n *\r\n * This class is experimental itself and can only be used with the compiler argument `-Xuse-experimental=kotlin.Experimental`.\r\n */\r\n@Target(ANNOTATION_CLASS)\r\n@Retention(BINARY)\r\n@SinceKotlin(\"1.2\")\r\n@RequireKotlin(\"1.2.50\", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\r\n@Suppress(\"ANNOTATION_CLASS_MEMBER\")\r\npublic annotation class Experimental(val level: Level = Level.ERROR) {\r\n /**\r\n * Severity of the diagnostic that should be reported on usages of experimental API which did not explicitly accept the experimental aspect\r\n * of that API either by using [UseExperimental] or by being annotated with the corresponding marker

annotation.\r\n */\r\n public enum class Level {\r\n /** Specifies that a warning should be reported on incorrect usages of this experimental API. */\r\n WARNING,\r\n /** Specifies that an error should be reported on incorrect usages of this experimental API. */\r\n ERROR,\r\n }\r\n}\r\n\r\n/**\r\n * Allows to use experimental API denoted by the given markers in the annotated file, declaration, or expression.\r\n * If a declaration is annotated with [UseExperimental], its usages are **not** required to opt-in to that experimental API.\r\n *\r\n * This class is experimental itself and can only be used with the compiler argument `-Xuse-experimental=kotlin.Experimental`.\r\n */\r\n@Target(\r\n CLASS, PROPERTY, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER, EXPRESSION, FILE,
TYPEALIAS\r\n)\r\n@Retention(SOURCE)\r\n@SinceKotlin(\"1.2\")\r\n@RequireKotlin(\"1.2.50\", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\r\npublic annotation class UseExperimental(\r\n vararg val markerClass: KClass<out Annotation>\r\n)\r\n\r\n\r\n\r\n@Target(CLASS, PROPERTY, CONSTRUCTOR, FUNCTION, TYPEALIAS)\r\n@Retention(BINARY)\r\ninternal annotation class WasExperimental(\r\n vararg val markerClass: KClass<out Annotation>\r\n)\r\n","package kotlin\r\n\r\nimport kotlin.annotation.AnnotationTarget.*\r\n\r\n/**\r\n * This annotation marks the standard library API that is considered experimental and is not subject to the\r\n * [general compatibility guarantees](https://kotlinlang.org/docs/reference/evolution/components-stability.html) given for the standard library:\r\n * the behavior of such API may be changed or the API may be removed completely in any further release.\r\n *\r\n * > Beware using the annotated API especially if you're developing a library, since your library might become binary incompatible\r\n * with the future versions of the standard library.\r\n *\r\n * Any usage of a declaration annotated with `@ExperimentalStdlibApi` must be accepted either by\r\n * annotating that usage with the [UseExperimental] annotation, e.g. `@UseExperimental(ExperimentalStdlibApi::class)`,\r\n * or by using the compiler argument `-Xuse-experimental=kotlin.ExperimentalStdlibApi`.\r\n */\r\n@Experimental(level = Experimental.Level.ERROR)\r\n@Retention(AnnotationRetention.BINARY)\r\n@Target(\r\n CLASS,\r\n ANNOTATION_CLASS,\r\n PROPERTY,\r\n FIELD,\r\n LOCAL_VARIABLE,\r\n VALUE_PARAMETER,\r\n CONSTRUCTOR,\r\n FUNCTION,\r\n PROPERTY_GETTER,\r\n PROPERTY_SETTER,\r\n
TYPEALIAS\r\n)\r\n@MustBeDocumented\r\n@ExperimentalStdlibApi\r\n@SinceKotlin(\"1.3\") // TODO: Remove experimental status from itself and advance SinceKotlin to 1.4\r\npublic annotation class ExperimentalStdlibApi\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin\r\n\r\nimport kotlin.annotation.AnnotationTarget.*\r\nimport kotlin.experimental.ExperimentalTypeInference\r\n\r\n/**\r\n * Allows to infer generic type arguments of a function from the calls in the annotated function parameter of that function.\r\n *\r\n * When this annotation is placed on a generic function parameter of a function,\r\n * it enables to infer the type arguments of that generic function from the lambda body passed to that parameter.\r\n *\r\n * The calls that affect inference are either members of the receiver type of an annotated function parameter or\r\n * extensions for that type. The extensions must be themselves annotated with `@BuilderInference`.\r\n *\r\n * Example: we declare\r\n * ```\r\n * fun <T> sequence(@BuilderInference block: suspend SequenceScope<T>.() -> Unit): Sequence<T>\r\n * ```\r\n * and use it like\r\n * ```\r\n * val result = sequence { yield(\"result\") }\r\n * ```\r\n * Here the type argument of the resulting sequence is inferred to `String` from\r\n * the argument of the [SequenceScope.yield] function, that is called inside the lambda passed to [sequence].\r\n *\r\n * Note: this annotation is experimental, see [ExperimentalTypeInference] on how to opt-in for it.\r\n */\r\n@Target(VALUE_PARAMETER, FUNCTION, PROPERTY)\r\n@Retention(AnnotationRetention.BINARY)\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTypeInference\r\npublic annotation class BuilderInference\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin\r\n\r\nimport kotlin.annotation.AnnotationTarget.*\r\nimport kotlin.internal.RequireKotlin\r\nimport

kotlin.internal.RequireKotlinVersionKind\r\n\r\n/**\r\n * The experimental multiplatform support API marker.\r\n *\r\n * Any usage of a declaration annotated with `@ExperimentalMultiplatform` must be accepted either by\r\n * annotating that usage with the [UseExperimental] annotation, e.g. `@UseExperimental(ExperimentalMultiplatform::class)`,\r\n * or by using the compiler argument `-Xuse-experimental=kotlin.ExperimentalMultiplatform`.\r\n */\r\n@Experimental\r\n@MustBeDocumented\r\n@Target(\r\n CLASS,\r\n ANNOTATION_CLASS,\r\n PROPERTY,\r\n FIELD,\r\n LOCAL_VARIABLE,\r\n VALUE_PARAMETER,\r\n CONSTRUCTOR,\r\n FUNCTION,\r\n PROPERTY_GETTER,\r\n PROPERTY_SETTER,\r\n TYPEALIAS\r\n)\r\n@Retention(AnnotationRetention.BINARY)\r\n@RequireKotlin(\"1.2.50\", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\r\npublic annotation class ExperimentalMultiplatform\r\n\r\n/**\r\n * Marks an expected annotation class that it isn't required to have actual counterparts in all platforms.\r\n *\r\n * This annotation is only applicable to `expect` annotation classes in multi-platform projects and marks that class as \"optional\".\r\n * Optional expected class is allowed to have no corresponding actual class on the platform. Optional annotations can only be used\r\n * to annotate something, not as types in signatures. If an optional annotation has no corresponding actual class on a platform,\r\n * the annotation entries where it's used are simply erased when compiling code on that platform.\r\n *\r\n * Note: this annotation is experimental, see [ExperimentalMultiplatform] on how to opt-in for it.\r\n */\r\n@Target(ANNOTATION_CLASS)\r\n@Retention(AnnotationRetention.BINARY)\r\n@ExperimentalMultiplatform\r\n@RequireKotlin(\"1.2.50\", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\r\npublic annotation class OptionalExpectation\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\npackage kotlin.collections\r\n\r\nimport kotlin.js.JsName\r\n\r\n/**\r\n * Provides a skeletal implementation of the read-only [Collection] interface.\r\n *\r\n * @param E the type of elements contained in the collection. The collection is covariant on its element type.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic abstract class AbstractCollection<out E> protected constructor() : Collection<E> {\r\n abstract override val size: Int\r\n abstract override fun iterator(): Iterator<E>\r\n\r\n override fun contains(element: @UnsafeVariance E): Boolean = any { it == element }\r\n\r\n override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean =\r\n elements.all { contains(it) } // use when js will support bound refs: elements.all(this::contains)\r\n\r\n override fun isEmpty(): Boolean = size == 0\r\n\r\n override fun toString(): String = joinToString(\", \", \"[\", \"]\") {\r\n if (it === this) \"(this Collection)\" else it.toString()\r\n }\r\n\r\n /**\r\n * Returns new array of type `Array<Any?>` with the elements of this collection.\r\n */\r\n @JsName(\"toArray\")\r\n protected open fun toArray(): Array<Any?> = copyToArrayImpl(this)\r\n\r\n /**\r\n * Fills the provided [array] or creates new array of the same type\r\n * and fills it with the elements of this collection.\r\n */\r\n protected open fun <T> toArray(array: Array<T>): Array<T> = copyToArrayImpl(this, array)\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.collections\r\n\r\n\r\nprivate enum class State {\r\n Ready,\r\n NotReady,\r\n Done,\r\n Failed\r\n}\r\n\r\n/**\r\n * A base class to simplify implementing iterators so that implementations only have to implement [computeNext]\r\n * to implement the iterator, calling [done] when the iteration is complete.\r\n */\r\npublic abstract class AbstractIterator<T> : Iterator<T> {\r\n private var state = State.NotReady\r\n private var nextValue: T? = null\r\n\r\n override fun hasNext(): Boolean {\r\n require(state != State.Failed)\r\n return when (state) {\r\n State.Done -> false\r\n State.Ready -> true\r\n else -> tryToComputeNext()\r\n }\r\n }\r\n\r\n override fun next(): T {\r\n if (!hasNext()) throw NoSuchElementException()\r\n state = State.NotReady\r\n @Suppress(\"UNCHECKED_CAST\")\r\n return nextValue as T\r\n }\r\n\r\n private fun tryToComputeNext(): Boolean {\r\n state = State.Failed\r\n computeNext()\r\n return state == State.Ready\r\n }\r\n\r\n /**\r\n * Computes the next item in the iterator.\r\n *\r\n * This callback method should call one of these two methods:\r\n *\r\n * * [setNext] with the next value of the iteration\r\n * *

[done] to indicate there are no more elements\r\n *\r\n * Failure to call either method will result in the iteration terminating with a failed state\r\n */\r\n abstract protected fun computeNext(): Unit\r\n\r\n /**\r\n * Sets the next value in the iteration, called from the [computeNext] function\r\n */\r\n protected fun setNext(value: T): Unit {\r\n nextValue = value\r\n state = State.Ready\r\n }\r\n\r\n /**\r\n * Sets the state to done so that the iteration terminates.\r\n */\r\n protected fun done() {\r\n state = State.Done\r\n }\r\n}\r\n\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n/*\r\n * Based on GWT AbstractList\r\n * Copyright 2007 Google Inc.\r\n*/\r\n\r\npackage kotlin.collections\r\n\r\n/**\r\n * Provides a skeletal implementation of the read-only [List] interface.\r\n *\r\n * This class is intended to help implementing read-only lists so it doesn't support concurrent modification tracking.\r\n *\r\n * @param E the type of elements contained in the list. The list is covariant on its element type.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic abstract class AbstractList<out E> protected constructor() : AbstractCollection<E>(), List<E> {\r\n abstract override val size: Int\r\n abstract override fun get(index: Int): E\r\n\r\n override fun iterator(): Iterator<E> = IteratorImpl()\r\n\r\n override fun indexOf(element: @UnsafeVariance E): Int = indexOfFirst { it == element }\r\n\r\n override fun lastIndexOf(element: @UnsafeVariance E): Int = indexOfLast { it == element }\r\n\r\n override fun listIterator(): ListIterator<E> = ListIteratorImpl(0)\r\n\r\n override fun listIterator(index: Int): ListIterator<E> = ListIteratorImpl(index)\r\n\r\n override fun subList(fromIndex: Int, toIndex: Int): List<E> = SubList(this, fromIndex, toIndex)\r\n\r\n private class SubList<out E>(private val list: AbstractList<E>, private val fromIndex: Int, toIndex: Int) : AbstractList<E>(), RandomAccess {\r\n private var _size: Int = 0\r\n\r\n init {\r\n checkRangeIndexes(fromIndex, toIndex, list.size)\r\n this._size = toIndex - fromIndex\r\n }\r\n\r\n override fun get(index: Int): E {\r\n checkElementIndex(index, _size)\r\n\r\n return list[fromIndex + index]\r\n }\r\n\r\n override val size: Int get() = _size\r\n }\r\n\r\n /**\r\n * Compares this list with other list instance with the ordered structural equality.\r\n *\r\n * @return true, if [other] instance is a [List] of the same size, which contains the same elements in the same order.\r\n */\r\n override fun equals(other: Any?): Boolean {\r\n if (other === this) return true\r\n if (other !is List<*>) return false\r\n\r\n return orderedEquals(this, other)\r\n }\r\n\r\n /**\r\n * Returns the hash code value for this list.\r\n */\r\n override fun hashCode(): Int = orderedHashCode(this)\r\n\r\n private open inner class IteratorImpl : Iterator<E> {\r\n /** the index of the item that will be returned on the next call to [next]`()` */\r\n protected var index = 0\r\n\r\n override fun hasNext(): Boolean = index < size\r\n\r\n override fun next(): E {\r\n if (!hasNext()) throw NoSuchElementException()\r\n return get(index++)\r\n }\r\n }\r\n\r\n /**\r\n * Implementation of [ListIterator] for abstract lists.\r\n */\r\n private open inner class ListIteratorImpl(index: Int) : IteratorImpl(), ListIterator<E> {\r\n\r\n init {\r\n checkPositionIndex(index, this@AbstractList.size)\r\n this.index = index\r\n }\r\n\r\n override fun hasPrevious(): Boolean = index > 0\r\n\r\n override fun nextIndex(): Int = index\r\n\r\n override fun previous(): E {\r\n if (!hasPrevious()) throw NoSuchElementException()\r\n return get(--index)\r\n }\r\n\r\n override fun previousIndex(): Int = index - 1\r\n }\r\n\r\n internal companion object {\r\n internal fun checkElementIndex(index: Int, size: Int) {\r\n if (index < 0 || index >= size) {\r\n throw IndexOutOfBoundsException(\"index: $index, size: $size\")\r\n }\r\n }\r\n\r\n internal fun checkPositionIndex(index: Int, size: Int) {\r\n if (index < 0 || index > size) {\r\n throw IndexOutOfBoundsException(\"index: $index, size: $size\")\r\n }\r\n }\r\n\r\n internal fun checkRangeIndexes(fromIndex: Int, toIndex: Int, size: Int) {\r\n if (fromIndex < 0 || toIndex > size) {\r\n throw IndexOutOfBoundsException(\"fromIndex: $fromIndex, toIndex: $toIndex, size: $size\")\r\n }\r\n if (fromIndex > toIndex) {\r\n throw IllegalArgumentException(\"fromIndex: $fromIndex > toIndex: $toIndex\")\r\n }\r\n }\r\n\r\n internal fun checkBoundsIndexes(startIndex: Int, endIndex: Int, size: Int) {\r\n if (startIndex < 0 || endIndex > size) {\r\n throw IndexOutOfBoundsException(\"startIndex: $startIndex, endIndex: $endIndex, size: $size\")\r\n }\r\n if (startIndex > endIndex) {\r\n throw IllegalArgumentException(\"startIndex: $startIndex > endIndex: $endIndex\")\r\n }\r\n }\r\n\r\n

```
internal fun orderedHashCode(c: Collection<*>): Int {\r\n            var hashCode = 1\r\n            for (e in c) {\r\n
    hashCode = 31 * hashCode + (e?.hashCode() ?: 0)\r\n            }\r\n            return hashCode\r\n        }\r\n\r\n
internal fun orderedEquals(c: Collection<*>, other: Collection<*>): Boolean {\r\n            if (c.size != other.size)
return false\r\n\r\n            val otherIterator = other.iterator()\r\n            for (elem in c) {\r\n                val elemOther =
otherIterator.next()\r\n                if (elem != elemOther) {\r\n                    return false\r\n                }\r\n            }\r\n
        return true\r\n        }\r\n    }\r\n}","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\r\n */\r\n/*\r\n * Based on GWT AbstractMap\r\n * Copyright 2007 Google Inc.\r\n
*/\r\n\r\npackage kotlin.collections\r\n\r\n/**\r\n * Provides a skeletal implementation of the read-only [Map]
interface.\r\n *\r\n * The implementor is required to implement [entries] property, which should return read-only set
of map entries.\r\n *\r\n * @param K the type of map keys. The map is invariant on its key type.\r\n * @param V
the type of map values. The map is covariant on its value type.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic abstract
class AbstractMap<K, out V> protected constructor() : Map<K, V> {\r\n\r\n    override fun containsKey(key: K):
Boolean {\r\n        return implFindEntry(key) != null\r\n    }\r\n\r\n    override fun containsValue(value:
@UnsafeVariance V): Boolean = entries.any { it.value == value }\r\n\r\n    internal fun containsEntry(entry:
Map.Entry<*, *>?): Boolean {\r\n        // since entry comes from @UnsafeVariance parameters it can be virtually
anything\r\n        if (entry !is Map.Entry<*, *>) return false\r\n        val key = entry.key\r\n        val value =
entry.value\r\n        val ourValue = get(key)\r\n\r\n        if (value != ourValue) {\r\n            return false\r\n
}\r\n\r\n        // Perhaps it was null and we don't contain the key?\r\n        if (ourValue == null &&
!containsKey(key)) {\r\n            return false\r\n        }\r\n\r\n        return true\r\n    }\r\n\r\n\r\n    /**\r\n     *
Compares this map with other instance with the ordered structural equality.\r\n     *\r\n     * @return true, if [other]
instance is a [Map] of the same size, all entries of which are contained in the [entries] set of this map.\r\n     */\r\n
override fun equals(other: Any?): Boolean {\r\n        if (other === this) return true\r\n        if (other !is Map<*, *>)
return false\r\n        if (size != other.size) return false\r\n\r\n        return other.entries.all { containsEntry(it) }\r\n
}\r\n\r\n    override operator fun get(key: K): V? = implFindEntry(key)?.value\r\n\r\n\r\n    /**\r\n     * Returns the
hash code value for this map.\r\n     *\r\n     * It is the same as the hashCode of [entries] set.\r\n     */\r\n    override
fun hashCode(): Int = entries.hashCode()\r\n\r\n    override fun isEmpty(): Boolean = size == 0\r\n    override val
size: Int get() = entries.size\r\n\r\n    /**\r\n     * Returns a read-only [Set] of all keys in this map.\r\n     *\r\n     *
Accessing this property first time creates a keys view from [entries].\r\n     * All subsequent accesses just return the
created instance.\r\n     */\r\n    override val keys: Set<K>\r\n        get() {\r\n            if (_keys == null) {\r\n
_keys = object : AbstractSet<K>() {\r\n                override operator fun contains(element: K): Boolean =
containsKey(element)\r\n\r\n                override operator fun iterator(): Iterator<K> {\r\n                    val
entryIterator = entries.iterator()\r\n                    return object : Iterator<K> {\r\n                        override fun
hasNext(): Boolean = entryIterator.hasNext()\r\n                        override fun next(): K =
entryIterator.next().key\r\n                    }\r\n                }\r\n\r\n                override val size: Int get() =
this@AbstractMap.size\r\n            }\r\n        }\r\n        return _keys!!\r\n    }\r\n\r\n
@kotlin.jvm.Volatile\r\n    private var _keys: Set<K>? = null\r\n\r\n\r\n    override fun toString(): String =
entries.joinToString(\", \", \"{\", \"}\") { toString(it) }\r\n\r\n    private fun toString(entry: Map.Entry<K, V>): String
= toString(entry.key) + \"=\" + toString(entry.value)\r\n\r\n    private fun toString(o: Any?): String = if (o === this)
\"(this Map)\" else o.toString()\r\n\r\n    /**\r\n     * Returns a read-only [Collection] of all values in this map.\r\n
*\r\n     * Accessing this property first time creates a values view from [entries].\r\n     * All subsequent accesses just
return the created instance.\r\n     */\r\n    override val values: Collection<V>\r\n        get() {\r\n            if (_values ==
null) {\r\n                _values = object : AbstractCollection<V>() {\r\n                    override operator fun
contains(element: @UnsafeVariance V): Boolean = containsValue(element)\r\n\r\n                    override operator fun
iterator(): Iterator<V> {\r\n                        val entryIterator = entries.iterator()\r\n                        return object :
Iterator<V> {\r\n                            override fun hasNext(): Boolean = entryIterator.hasNext()\r\n
override fun next(): V = entryIterator.next().value\r\n                        }\r\n                    }\r\n\r\n                    override
val size: Int get() = this@AbstractMap.size\r\n                }\r\n            }\r\n            return _values!!\r\n        }\r\n\r\n
```

@kotlin.jvm.Volatile\r\n   private var _values: Collection<V>? = null\r\n\r\n   private fun implFindEntry(key: K): Map.Entry<K, V>? = entries.firstOrNull { it.key == key }\r\n\r\n   internal companion object {\r\n\r\n   internal fun entryHashCode(e: Map.Entry<*, *>): Int = with(e) { (key?.hashCode() ?: 0) xor (value?.hashCode() ?: 0) }\r\n   internal fun entryToString(e: Map.Entry<*, *>): String = with(e) { \"$key=$value\" }\r\n   internal fun entryEquals(e: Map.Entry<*, *>, other: Any?): Boolean {\r\n   if (other !is Map.Entry<*, *>) return false\r\n   return e.key == other.key && e.value == other.value\r\n   }\r\n   }\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\npackage kotlin.collections\r\n\r\n/**\r\n * Provides a skeletal implementation of the read-only [Set] interface.\r\n *\r\n * This class is intended to help implementing read-only sets so it doesn't support concurrent modification tracking.\r\n *\r\n * @param E the type of elements contained in the set. The set is covariant on its element type.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic abstract class AbstractSet<out E> protected constructor() : AbstractCollection<E>(), Set<E> {\r\n\r\n   /**\r\n   * Compares this set with other set instance with the unordered structural equality.\r\n   *\r\n   * @return true, if [other] instance is a [Set] of the same size, all elements of which are contained in this set.\r\n   */\r\n   override fun equals(other: Any?): Boolean {\r\n   if (other === this) return true\r\n   if (other !is Set<*>) return false\r\n   return setEquals(this, other)\r\n   }\r\n\r\n   /**\r\n   * Returns the hash code value for this set.\r\n   */\r\n   override fun hashCode(): Int = unorderedHashCode(this)\r\n\r\n   internal companion object {\r\n   internal fun unorderedHashCode(c: Collection<*>): Int {\r\n   var hashCode = 0\r\n   for (element in c) {\r\n   hashCode += (element?.hashCode() ?: 0)\r\n   }\r\n   return hashCode\r\n   }\r\n\r\n   internal fun setEquals(c: Set<*>, other: Set<*>): Boolean {\r\n   if (c.size != other.size) return false\r\n   return c.containsAll(other)\r\n   }\r\n   }\r\n\r\n}","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"ArraysKt\")\r\n\r\n\r\npackage kotlin.collections\r\n\r\nimport kotlin.contracts.*\r\n\r\n\r\n/**\r\n * Returns a single list of all elements from all arrays in the given array.\r\n * @sample samples.collections.Arrays.Transformations.flattenArray\r\n */\r\npublic fun <T> Array<out Array<out T>>.flatten(): List<T> {\r\n   val result = ArrayList<T>(sumBy { it.size })\r\n   for (element in this) {\r\n   result.addAll(element)\r\n   }\r\n   return result\r\n}\r\n\r\n/**\r\n * Returns a pair of lists, where\r\n * *first* list is built from the first values of each pair from this array,\r\n * *second* list is built from the second values of each pair from this array.\r\n * @sample samples.collections.Arrays.Transformations.unzipArray\r\n */\r\npublic fun <T, R> Array<out Pair<T, R>>.unzip(): Pair<List<T>, List<R>> {\r\n   val listT = ArrayList<T>(size)\r\n   val listR = ArrayList<R>(size)\r\n   for (pair in this) {\r\n   listT.add(pair.first)\r\n   listR.add(pair.second)\r\n   }\r\n   return listT to listR\r\n}\r\n\r\n/**\r\n * Returns `true` if this nullable array is either null or empty.\r\n * @sample samples.collections.Arrays.Usage.arrayIsNullOrEmpty\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Array<*>?.isNullOrEmpty(): Boolean {\r\n   contract {\r\n   returns(false) implies (this@isNullOrEmpty != null)\r\n   }\r\n\r\n   return this == null || this.isEmpty()\r\n}\r\n\r\n/**\r\n * Returns this array if it's not empty\r\n * or the result of calling [defaultValue] function if the array is empty.\r\n *\r\n * @sample samples.collections.Arrays.Usage.arrayIfEmpty\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@kotlin.internal.InlineOnly\r\n@Suppress(\"UPPER_BOUND_CANNOT_BE_ARRAY\")\r\npublic inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : Array<*>, C : R =\r\n   if (isEmpty()) defaultValue() else this\r\n\r\n\r\n\r\n@UseExperimental(ExperimentalUnsignedTypes::class)\r\n@SinceKotlin(\"1.3\")\r\n@PublishedApi\r\n@kotlin.jvm.JvmName(\"contentDeepEquals\")\r\n@kotlin.js.JsName(\"contentDeepEqualsImpl\")\r\ninternal fun <T> Array<out T>.contentDeepEqualsImpl(other: Array<out T>): Boolean {\r\n   if (this === other) return true\r\n   if (this.size != other.size) return false\r\n\r\n   for (i in indices) {\r\n   val v1 = this[i]\r\n   val v2 = other[i]\r\n\r\n   if (v1 === v2) {\r\n   continue\r\n   } else if (v1 == null || v2 == null) {\r\n   return

false\r\n }\r\n\r\n when {\r\n v1 is Array<*> && v2 is Array<*> -> if (!v1.contentDeepEquals(v2)) return false\r\n v1 is ByteArray && v2 is ByteArray -> if (!v1.contentEquals(v2)) return false\r\n v1 is ShortArray && v2 is ShortArray -> if (!v1.contentEquals(v2)) return false\r\n v1 is IntArray && v2 is IntArray -> if (!v1.contentEquals(v2)) return false\r\n v1 is LongArray && v2 is LongArray -> if (!v1.contentEquals(v2)) return false\r\n v1 is FloatArray && v2 is FloatArray -> if (!v1.contentEquals(v2)) return false\r\n v1 is DoubleArray && v2 is DoubleArray -> if (!v1.contentEquals(v2)) return false\r\n v1 is CharArray && v2 is CharArray -> if (!v1.contentEquals(v2)) return false\r\n v1 is BooleanArray && v2 is BooleanArray -> if (!v1.contentEquals(v2)) return false\r\n\r\n v1 is UByteArray && v2 is UByteArray -> if (!v1.contentEquals(v2)) return false\r\n v1 is UShortArray && v2 is UShortArray -> if (!v1.contentEquals(v2)) return false\r\n v1 is UIntArray && v2 is UIntArray -> if (!v1.contentEquals(v2)) return false\r\n v1 is ULongArray && v2 is ULongArray -> if (!v1.contentEquals(v2)) return false\r\n\r\n else -> if (v1 != v2) return false\r\n }\r\n\r\n }\r\n return true\r\n}\r\n\r\n@SinceKotlin(\"1.3\")\r\n@PublishedApi\r\n@kotlin.jvm.JvmName(\"contentDeepToString\")\r\n@kotlin.js.JsName(\"contentDeepToStringImpl\")\r\ninternal fun <T> Array<out T>.contentDeepToStringImpl(): String {\r\n val length = size.coerceAtMost((Int.MAX_VALUE - 2) / 5) * 5 + 2 // in order not to overflow Int.MAX_VALUE\r\n return buildString(length) {\r\n contentDeepToStringInternal(this, mutableListOf())\r\n }\r\n}\r\n\r\n@UseExperimental(ExperimentalUnsignedTypes::class)\r\nprivate fun <T> Array<out T>.contentDeepToStringInternal(result: StringBuilder, processed: MutableList<Array<*>>) {\r\n if (this in processed) {\r\n result.append(\"[...]\")\r\n return\r\n }\r\n processed.add(this)\r\n result.append('[')\r\n\r\n for (i in indices) {\r\n if (i != 0) {\r\n result.append(\", \")\r\n }\r\n val element = this[i]\r\n when (element) {\r\n null -> result.append(\"null\")\r\n is Array<*> -> element.contentDeepToStringInternal(result, processed)\r\n is ByteArray -> result.append(element.contentToString())\r\n is ShortArray -> result.append(element.contentToString())\r\n is IntArray -> result.append(element.contentToString())\r\n is LongArray -> result.append(element.contentToString())\r\n is FloatArray -> result.append(element.contentToString())\r\n is DoubleArray -> result.append(element.contentToString())\r\n is CharArray -> result.append(element.contentToString())\r\n is BooleanArray -> result.append(element.contentToString())\r\n\r\n\r\n is UByteArray -> result.append(element.contentToString())\r\n is UShortArray -> result.append(element.contentToString())\r\n is UIntArray -> result.append(element.contentToString())\r\n is ULongArray -> result.append(element.contentToString())\r\n\r\n\r\n else -> result.append(element.toString())\r\n }\r\n }\r\n\r\n result.append(']')\r\n processed.removeAt(processed.lastIndex)\r\n}","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.collections\r\n\r\n/**\r\n * Data class representing a value from a collection or sequence, along with its index in that collection or sequence.\r\n *\r\n * @property value the underlying value.\r\n * @property index the index of the value in the collection or sequence.\r\n */\r\npublic data class IndexedValue<out T>(public val index: Int, public val value: T)\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\n@file:kotlin.jvm.JvmName(\"MapAccessorsKt\")\r\n\r\n\r\npackage kotlin.collections\r\n\r\nimport kotlin.reflect.KProperty\r\nimport kotlin.internal.Exact\r\n\r\n\r\n/**\r\n * Returns the value of the property for the given object from this read-only map.\r\n * @param thisRef the object for which the value is requested (not used).\r\n * @param property the metadata for the property, used to get the name of property and lookup the value corresponding to this name in the map.\r\n * @return the property value.\r\n *\r\n * @throws NoSuchElementException when the map doesn't contain value for the property name and doesn't provide an implicit default (see [withDefault]).\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <V, V1 : V> Map<in String, @Exact V>.getValue(thisRef: Any?, property: KProperty<*>): V1 =\r\n

@Suppress(\"UNCHECKED_CAST\") (getOrImplicitDefault(property.name) as V1)\r\n\r\n/**\r\n * Returns the value of the property for the given object from this mutable map.\r\n * @param thisRef the object for which the value is requested (not used).\r\n * @param property the metadata for the property, used to get the name of property and lookup the value corresponding to this name in the map.\r\n * @return the property value.\r\n *\r\n * @throws NoSuchElementException when the map doesn't contain value for the property name and doesn't provide an implicit default (see [withDefault]).\r\n */\r\n@kotlin.jvm.JvmName(\"getVar\")\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <V, V1 : V> MutableMap<in String, out @Exact V>.getValue(thisRef: Any?, property: KProperty<*>): V1 =\r\n   @Suppress(\"UNCHECKED_CAST\") (getOrImplicitDefault(property.name) as V1)\r\n\r\n@Deprecated(\"Use getValue() with two type parameters instead\", level = DeprecationLevel.ERROR)\r\n@kotlin.jvm.JvmName(\"getVarContravariant\")\r\n@kotlin.internal.LowPriorityInOverloadResolution\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <V> MutableMap<in String, in V>.getValue(thisRef: Any?, property: KProperty<*>): V =\r\n   @Suppress(\"UNCHECKED_CAST\") (getOrImplicitDefault(property.name) as V)\r\n\r\n/**\r\n * Stores the value of the property for the given object in this mutable map.\r\n * @param thisRef the object for which the value is requested (not used).\r\n * @param property the metadata for the property, used to get the name of property and store the value associated with that name in the map.\r\n * @param value the value to set.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <V> MutableMap<in String, in V>.setValue(thisRef: Any?, property: KProperty<*>, value: V) {\r\n   this.put(property.name, value)\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"MapsKt\")\r\n\r\npackage kotlin.collections\r\n\r\n/**\r\n * Returns the value for the given key, or the implicit default value for this map.\r\n * By default no implicit value is provided for maps and a [NoSuchElementException] is thrown.\r\n * To create a map with implicit default value use [withDefault] method.\r\n *\r\n * @throws NoSuchElementException when the map doesn't contain a value for the specified key and no implicit default was provided for that map.\r\n */\r\n@kotlin.jvm.JvmName(\"getOrImplicitDefaultNullable\")\r\n@PublishedApi\r\ninternal fun <K, V> Map<K, V>.getOrImplicitDefault(key: K): V {\r\n   if (this is MapWithDefault)\r\n   return this.getOrImplicitDefault(key)\r\n\r\n   return getOrElseNullable(key, { throw NoSuchElementException(\"Key $key is missing in the map.\") })\r\n}\r\n\r\n/**\r\n * Returns a wrapper of this read-only map, having the implicit default value provided with the specified function [defaultValue].\r\n *\r\n * This implicit default value is used when the original map doesn't contain a value for the key specified\r\n * and a value is obtained with [Map.getValue] function, for example when properties are delegated to the map.\r\n *\r\n * When this map already has an implicit default value provided with a former call to [withDefault], it is being replaced by this call.\r\n */\r\npublic fun <K, V> Map<K, V>.withDefault(defaultValue: (key: K) -> V): Map<K, V> =\r\n   when (this) {\r\n   is MapWithDefault -> this.map.withDefault(defaultValue)\r\n   else -> MapWithDefaultImpl(this, defaultValue)\r\n   }\r\n\r\n/**\r\n * Returns a wrapper of this mutable map, having the implicit default value provided with the specified function [defaultValue].\r\n *\r\n * This implicit default value is used when the original map doesn't contain a value for the key specified\r\n * and a value is obtained with [Map.getValue] function, for example when properties are delegated to the map.\r\n *\r\n * When this map already has an implicit default value provided with a former call to [withDefault], it is being replaced by this call.\r\n */\r\n@kotlin.jvm.JvmName(\"withDefaultMutable\")\r\npublic fun <K, V> MutableMap<K, V>.withDefault(defaultValue: (key: K) -> V): MutableMap<K, V> =\r\n   when (this) {\r\n   is MutableMapWithDefault -> this.map.withDefault(defaultValue)\r\n   else -> MutableMapWithDefaultImpl(this, defaultValue)\r\n   }\r\n\r\n\r\nprivate interface MapWithDefault<K, out V> : Map<K, V> {\r\n   public val map: Map<K, V>\r\n   public fun getOrImplicitDefault(key: K): V\r\n}\r\n\r\nprivate interface MutableMapWithDefault<K, V> : MutableMap<K, V>, MapWithDefault<K, V> {\r\n   public override val map: MutableMap<K, V>\r\n}\r\n\r\n\r\nprivate class MapWithDefaultImpl<K, out V>(public override val map: Map<K, V>, private val default: (key: K) -> V) : MapWithDefault<K, V> {\r\n   override fun equals(other: Any?): Boolean

= map.equals(other)\r\n   override fun hashCode(): Int = map.hashCode()\r\n   override fun toString(): String = map.toString()\r\n   override val size: Int get() = map.size\r\n   override fun isEmpty(): Boolean = map.isEmpty()\r\n   override fun containsKey(key: K): Boolean = map.containsKey(key)\r\n   override fun containsValue(value: @UnsafeVariance V): Boolean = map.containsValue(value)\r\n   override fun get(key: K): V? = map.get(key)\r\n   override val keys: Set<K> get() = map.keys\r\n   override val values: Collection<V> get() = map.values\r\n   override val entries: Set<Map.Entry<K, V>> get() = map.entries\r\n\r\n   override fun getOrImplicitDefault(key: K): V = map.getOrElseNullable(key, { default(key) })\r\n}\r\n\r\nprivate class MutableMapWithDefaultImpl<K, V>(public override val map: MutableMap<K, V>, private val default: (key: K) -> V) : MutableMapWithDefault<K, V> {\r\n   override fun equals(other: Any?): Boolean = map.equals(other)\r\n   override fun hashCode(): Int = map.hashCode()\r\n   override fun toString(): String = map.toString()\r\n   override val size: Int get() = map.size\r\n   override fun isEmpty(): Boolean = map.isEmpty()\r\n   override fun containsKey(key: K): Boolean = map.containsKey(key)\r\n   override fun containsValue(value: @UnsafeVariance V): Boolean = map.containsValue(value)\r\n   override fun get(key: K): V? = map.get(key)\r\n   override val keys: MutableSet<K> get() = map.keys\r\n   override val values: MutableCollection<V> get() = map.values\r\n   override val entries: MutableSet<MutableMap.MutableEntry<K, V>> get() = map.entries\r\n\r\n   override fun put(key: K, value: V): V? = map.put(key, value)\r\n   override fun remove(key: K): V? = map.remove(key)\r\n   override fun putAll(from: Map<out K, V>) = map.putAll(from)\r\n   override fun clear() = map.clear()\r\n\r\n   override fun getOrImplicitDefault(key: K): V = map.getOrElseNullable(key, { default(key) })\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"CollectionsKt\")\r\n\r\npackage kotlin.collections\r\n\r\nimport kotlin.random.Random\r\n\r\n/**\r\n * Removes a single instance of the specified element from this\r\n * collection, if it is present.\r\n *\r\n * Allows to overcome type-safety restriction of `remove` that requires to pass an element of type `E`.\r\n *\r\n * @return `true` if the element has been successfully removed; `false` if it was not present in the collection.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<out T>.remove(element: T): Boolean =\r\n   @Suppress(\"UNCHECKED_CAST\") (this as MutableCollection<T>).remove(element)\r\n\r\n/**\r\n * Removes all of this collection's elements that are also contained in the specified collection.\r\n\r\n * Allows to overcome type-safety restriction of `removeAll` that requires to pass a collection of type `Collection<E>`.\r\n *\r\n * @return `true` if any of the specified elements was removed from the collection, `false` if the collection was not modified.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<out T>.removeAll(elements: Collection<T>): Boolean =\r\n   @Suppress(\"UNCHECKED_CAST\") (this as MutableCollection<T>).removeAll(elements)\r\n\r\n/**\r\n * Retains only the elements in this collection that are contained in the specified collection.\r\n *\r\n * Allows to overcome type-safety restriction of `retainAll` that requires to pass a collection of type `Collection<E>`.\r\n *\r\n * @return `true` if any element was removed from the collection, `false` if the collection was not modified.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<out T>.retainAll(elements: Collection<T>): Boolean =\r\n   @Suppress(\"UNCHECKED_CAST\") (this as MutableCollection<T>).retainAll(elements)\r\n\r\n/**\r\n * Removes the element at the specified [index] from this list.\r\n * In Kotlin one should use the [MutableList.removeAt] function instead.\r\n */\r\n@Deprecated(\"Use removeAt(index) instead.\", ReplaceWith(\"removeAt(index)\"), level = DeprecationLevel.ERROR)\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> MutableList<T>.remove(index: Int): T = removeAt(index)\r\n\r\n/**\r\n * Adds the specified [element] to this mutable collection.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <T> MutableCollection<in T>.plusAssign(element: T) {\r\n   this.add(element)\r\n}\r\n\r\n/**\r\n * Adds all elements of the given [elements] collection to this mutable collection.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <T> MutableCollection<in T>.plusAssign(elements: Iterable<T>) {\r\n   this.addAll(elements)\r\n}\r\n\r\n/**\r\n * Adds all elements of the given [elements] array to this mutable collection.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <T> MutableCollection<in

T>.plusAssign(elements: Array<T>) {\r\n this.addAll(elements)\r\n}\r\n\r\n/**\r\n * Adds all elements of the given [elements] sequence to this mutable collection.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <T> MutableCollection<in T>.plusAssign(elements: Sequence<T>) {\r\n this.addAll(elements)\r\n}\r\n\r\n/**\r\n * Removes a single instance of the specified [element] from this mutable collection.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <T> MutableCollection<in T>.minusAssign(element: T) {\r\n this.remove(element)\r\n}\r\n\r\n/**\r\n * Removes all elements contained in the given [elements] collection from this mutable collection.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <T> MutableCollection<in T>.minusAssign(elements: Iterable<T>) {\r\n this.removeAll(elements)\r\n}\r\n\r\n/**\r\n * Removes all elements contained in the given [elements] array from this mutable collection.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <T> MutableCollection<in T>.minusAssign(elements: Array<T>) {\r\n this.removeAll(elements)\r\n}\r\n\r\n/**\r\n * Removes all elements contained in the given [elements] sequence from this mutable collection.\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <T> MutableCollection<in T>.minusAssign(elements: Sequence<T>) {\r\n this.removeAll(elements)\r\n}\r\n\r\n/**\r\n * Adds all elements of the given [elements] collection to this [MutableCollection].\r\n */\r\npublic fun <T> MutableCollection<in T>.addAll(elements: Iterable<T>): Boolean {\r\n when (elements) {\r\n is Collection -> return addAll(elements)\r\n else -> {\r\n var result: Boolean = false\r\n for (item in elements)\r\n if (add(item)) result = true\r\n return result\r\n }\r\n }\r\n}\r\n\r\n/**\r\n * Adds all elements of the given [elements] sequence to this [MutableCollection].\r\n */\r\npublic fun <T> MutableCollection<in T>.addAll(elements: Sequence<T>): Boolean {\r\n var result: Boolean = false\r\n for (item in elements) {\r\n if (add(item)) result = true\r\n }\r\n return result\r\n}\r\n\r\n/**\r\n * Adds all elements of the given [elements] array to this [MutableCollection].\r\n */\r\npublic fun <T> MutableCollection<in T>.addAll(elements: Array<out T>): Boolean {\r\n return addAll(elements.asList())\r\n}\r\n\r\n/**\r\n * Removes all elements from this [MutableIterable] that match the given [predicate].\r\n */\r\npublic fun <T> MutableIterable<T>.removeAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, true)\r\n\r\n/**\r\n * Retains only elements of this [MutableIterable] that match the given [predicate].\r\n */\r\npublic fun <T> MutableIterable<T>.retainAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, false)\r\n\r\nprivate fun <T> MutableIterable<T>.filterInPlace(predicate: (T) -> Boolean, predicateResultToRemove: Boolean): Boolean {\r\n var result = false\r\n with(iterator()) {\r\n while (hasNext())\r\n if (predicate(next()) == predicateResultToRemove) {\r\n remove()\r\n result = true\r\n }\r\n }\r\n return result\r\n}\r\n\r\n/**\r\n * Removes all elements from this [MutableList] that match the given [predicate].\r\n */\r\npublic fun <T> MutableList<T>.removeAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, true)\r\n\r\n/**\r\n * Retains only elements of this [MutableList] that match the given [predicate].\r\n */\r\npublic fun <T> MutableList<T>.retainAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, false)\r\n\r\nprivate fun <T> MutableList<T>.filterInPlace(predicate: (T) -> Boolean, predicateResultToRemove: Boolean): Boolean {\r\n if (this !is RandomAccess)\r\n return (this as MutableIterable<T>).filterInPlace(predicate, predicateResultToRemove)\r\n\r\n var writeIndex: Int = 0\r\n for (readIndex in 0..lastIndex) {\r\n val element = this[readIndex]\r\n if (predicate(element) == predicateResultToRemove)\r\n continue\r\n\r\n if (writeIndex != readIndex)\r\n this[writeIndex] = element\r\n\r\n writeIndex++\r\n }\r\n if (writeIndex < size) {\r\n for (removeIndex in lastIndex downTo writeIndex)\r\n removeAt(removeIndex)\r\n\r\n return true\r\n } else {\r\n return false\r\n }\r\n}\r\n\r\n/**\r\n * Removes all elements from this [MutableCollection] that are also contained in the given [elements] collection.\r\n */\r\npublic fun <T> MutableCollection<in T>.removeAll(elements: Iterable<T>): Boolean {\r\n return removeAll(elements.convertToSetForSetOperationWith(this))\r\n}\r\n\r\n/**\r\n * Removes all elements from this [MutableCollection] that are also contained in the given [elements] sequence.\r\n */\r\npublic fun <T> MutableCollection<in T>.removeAll(elements: Sequence<T>): Boolean {\r\n val set = elements.toHashSet()\r\n return set.isNotEmpty() && removeAll(set)\r\n}\r\n\r\n/**\r\n * Removes all elements from this [MutableCollection] that are also contained in the given [elements] array.\r\n */\r\npublic fun <T>

MutableCollection<in T>.removeAll(elements: Array<out T>): Boolean {\r\n   return elements.isNotEmpty() && removeAll(elements.toHashSet())\r\n}\r\n\r\n/**\r\n * Retains only elements of this [MutableCollection] that are contained in the given [elements] collection.\r\n */\r\npublic fun <T> MutableCollection<in T>.retainAll(elements: Iterable<T>): Boolean {\r\n   return retainAll(elements.convertToSetForSetOperationWith(this))\r\n}\r\n\r\n/**\r\n * Retains only elements of this [MutableCollection] that are contained in the given [elements] array.\r\n */\r\npublic fun <T> MutableCollection<in T>.retainAll(elements: Array<out T>): Boolean {\r\n   if (elements.isNotEmpty())\r\n   return retainAll(elements.toHashSet())\r\n   else\r\n   return retainNothing()\r\n}\r\n\r\n/**\r\n * Retains only elements of this [MutableCollection] that are contained in the given [elements] sequence.\r\n */\r\npublic fun <T> MutableCollection<in T>.retainAll(elements: Sequence<T>): Boolean {\r\n   val set = elements.toHashSet()\r\n   if (set.isNotEmpty())\r\n   return retainAll(set)\r\n   else\r\n   return retainNothing()\r\n}\r\n\r\nprivate fun MutableCollection<*>.retainNothing(): Boolean {\r\n   val result = isNotEmpty()\r\n   clear()\r\n   return result\r\n}\r\n\r\n/**\r\n * Randomly shuffles elements in this mutable list using the specified [random] instance as the source of randomness.\r\n *\r\n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic fun <T> MutableList<T>.shuffle(random: Random): Unit {\r\n   for (i in lastIndex downTo 1) {\r\n   val j = random.nextInt(i + 1)\r\n   val copy = this[i]\r\n   this[i] = this[j]\r\n   this[j] = copy\r\n   }\r\n}\r\n\r\n/**\r\n * Returns a new list with the elements of this list randomly shuffled\r\n * using the specified [random] instance as the source of randomness.\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic fun <T> Iterable<T>.shuffled(random: Random): List<T> = toMutableList().apply { shuffle(random) }\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"CollectionsKt\")\r\n\r\npackage kotlin.collections\r\n\r\nprivate open class ReversedListReadOnly<out T>(private val delegate: List<T>) : AbstractList<T>() {\r\n   override val size: Int get() = delegate.size\r\n   override fun get(index: Int): T = delegate[reverseElementIndex(index)]\r\n}\r\n\r\nprivate class ReversedList<T>(private val delegate: MutableList<T>) : AbstractMutableList<T>() {\r\n   override val size: Int get() = delegate.size\r\n   override fun get(index: Int): T = delegate[reverseElementIndex(index)]\r\n\r\n   override fun clear() = delegate.clear()\r\n   override fun removeAt(index: Int): T = delegate.removeAt(reverseElementIndex(index))\r\n\r\n   override fun set(index: Int, element: T): T = delegate.set(reverseElementIndex(index), element)\r\n   override fun add(index: Int, element: T) {\r\n   delegate.add(reversePositionIndex(index), element)\r\n   }\r\n}\r\n\r\nprivate fun List<*>.reverseElementIndex(index: Int) =\r\n   if (index in 0..lastIndex) lastIndex - index else throw IndexOutOfBoundsException(\"Element index $index must be in range [${0..lastIndex}].\")\r\n\r\nprivate fun List<*>.reversePositionIndex(index: Int) =\r\n   if (index in 0..size) size - index else throw IndexOutOfBoundsException(\"Position index $index must be in range [${0..size}].\")\r\n\r\n\r\n/**\r\n * Returns a reversed read-only view of the original List.\r\n * All changes made in the original list will be reflected in the reversed one.\r\n * @sample samples.collections.ReversedViews.asReversedList\r\n */\r\npublic fun <T> List<T>.asReversed(): List<T> = ReversedListReadOnly(this)\r\n\r\n/**\r\n * Returns a reversed mutable view of the original mutable List.\r\n * All changes made in the original list will be reflected in the reversed one and vice versa.\r\n * @sample samples.collections.ReversedViews.asReversedMutableList\r\n */\r\n@kotlin.jvm.JvmName(\"asReversedMutable\")\r\npublic fun <T> MutableList<T>.asReversed(): MutableList<T> = ReversedList(this)\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"SequencesKt\")\r\n@file:UseExperimental(ExperimentalTypeInference::class)\r\n\r\npackage kotlin.sequences\r\n\r\nimport kotlin.coroutines.*\r\nimport kotlin.coroutines.intrinsics.*\r\nimport kotlin.experimental.ExperimentalTypeInference\r\n\r\n/**\r\n * Builds a [Sequence] lazily yielding values one by one.\r\n *\r\n * @see kotlin.sequences.generateSequence\r\n *\r\n * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\r\n * @sample

samples.collections.Sequences.Building.buildFibonacciSequence\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic fun <T> sequence(@BuilderInference block: suspend SequenceScope<T>.() -> Unit): Sequence<T> = Sequence { iterator(block) }\r\n\r\n@SinceKotlin(\"1.3\")\r\n@Deprecated(\"Use 'sequence { }' function instead.\", ReplaceWith(\"sequence(builderAction)\"), level = DeprecationLevel.ERROR)\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> buildSequence(@BuilderInference noinline builderAction: suspend SequenceScope<T>.() -> Unit): Sequence<T> = Sequence { iterator(builderAction) }\r\n\r\n/**\r\n * Builds an [Iterator] lazily yielding values one by one.\r\n *\r\n * @sample samples.collections.Sequences.Building.buildIterator\r\n * @sample samples.collections.Iterables.Building.iterable\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic fun <T> iterator(@BuilderInference block: suspend SequenceScope<T>.() -> Unit): Iterator<T> {\r\n   val iterator = SequenceBuilderIterator<T>()\r\n   iterator.nextStep = block.createCoroutineUnintercepted(receiver = iterator, completion = iterator)\r\n   return iterator\r\n}\r\n\r\n@SinceKotlin(\"1.3\")\r\n@Deprecated(\"Use 'iterator { }' function instead.\", ReplaceWith(\"iterator(builderAction)\"), level = DeprecationLevel.ERROR)\r\n@kotlin.internal.InlineOnly\r\npublic inline fun <T> buildIterator(@BuilderInference noinline builderAction: suspend SequenceScope<T>.() -> Unit): Iterator<T> = iterator(builderAction)\r\n\r\n/**\r\n * The scope for yielding values of a [Sequence] or an [Iterator], provides [yield] and [yieldAll] suspension functions.\r\n *\r\n * @see sequence\r\n * @see iterator\r\n *\r\n * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\r\n * @sample samples.collections.Sequences.Building.buildFibonacciSequence\r\n */\r\n@RestrictsSuspension\r\n@SinceKotlin(\"1.3\")\r\npublic abstract class SequenceScope<in T> internal constructor() {\r\n   /**\r\n   * Yields a value to the [Iterator] being built and suspends\r\n   * until the next value is requested.\r\n   *\r\n   * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\r\n   * @sample samples.collections.Sequences.Building.buildFibonacciSequence\r\n   */\r\n   public abstract suspend fun yield(value: T)\r\n\r\n   /**\r\n   * Yields all values from the `iterator` to the [Iterator] being built\r\n   * and suspends until all these values are iterated and the next one is requested.\r\n   *\r\n   * The sequence of values returned by the given iterator can be potentially infinite.\r\n   *\r\n   * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\r\n   */\r\n   public abstract suspend fun yieldAll(iterator: Iterator<T>)\r\n\r\n   /**\r\n   * Yields a collections of values to the [Iterator] being built\r\n   * and suspends until all these values are iterated and the next one is requested.\r\n   *\r\n   * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\r\n   */\r\n   public suspend fun yieldAll(elements: Iterable<T>) {\r\n   if (elements is Collection && elements.isEmpty()) return\r\n   return yieldAll(elements.iterator())\r\n   }\r\n\r\n   /**\r\n   * Yields potentially infinite sequence of values to the [Iterator] being built\r\n   * and suspends until all these values are iterated and the next one is requested.\r\n   *\r\n   * The sequence can be potentially infinite.\r\n   *\r\n   * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\r\n   */\r\n   public suspend fun yieldAll(sequence: Sequence<T>) = yieldAll(sequence.iterator())\r\n}\r\n\r\n@Deprecated(\"Use SequenceScope class instead.\", ReplaceWith(\"SequenceScope<T>\"), level = DeprecationLevel.ERROR)\r\npublic typealias SequenceBuilder<T> = SequenceScope<T>\r\n\r\nprivate typealias State = Int\r\n\r\nprivate const val State_NotReady: State = 0\r\nprivate const val State_ManyNotReady: State = 1\r\nprivate const val State_ManyReady: State = 2\r\nprivate const val State_Ready: State = 3\r\nprivate const val State_Done: State = 4\r\nprivate const val State_Failed: State = 5\r\n\r\nprivate class SequenceBuilderIterator<T> : SequenceScope<T>(), Iterator<T>, Continuation<Unit> {\r\n   private var state = State_NotReady\r\n   private var nextValue: T? = null\r\n   private var nextIterator: Iterator<T>? = null\r\n   var nextStep: Continuation<Unit>? = null\r\n\r\n   override fun hasNext(): Boolean {\r\n   while (true) {\r\n   when (state) {\r\n   State_NotReady -> {}\r\n   State_ManyNotReady ->\r\n   if (nextIterator!!.hasNext()) {\r\n   state = State_ManyReady\r\n   return true\r\n   } else {\r\n   nextIterator = null\r\n   }\r\n   State_Done -> return false\r\n   State_Ready, State_ManyReady -> return true\r\n   else -> throw exceptionalState()\r\n   }\r\n\r\n   state = State_Failed\r\n   val

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step = nextStep!!\r\n            nextStep = null\r\n            step.resume(Unit)\r\n        }\r\n    }\r\n\r\n    override fun next(): T {\r\n        when (state) {\r\n            State_NotReady, State_ManyNotReady -> return nextNotReady()\r\n            State_ManyReady -> {\r\n                state = State_ManyNotReady\r\n                return nextIterator!!.next()\r\n            }\r\n            State_Ready -> {\r\n                state = State_NotReady\r\n                @Suppress(\"UNCHECKED_CAST\")\r\n                val result = nextValue as T\r\n                nextValue = null\r\n                return result\r\n            }\r\n            else -> throw exceptionalState()\r\n        }\r\n    }\r\n\r\n    private fun nextNotReady(): T {\r\n        if (!hasNext()) throw NoSuchElementException() else return next()\r\n    }\r\n\r\n    private fun exceptionalState(): Throwable = when (state) {\r\n        State_Done -> NoSuchElementException()\r\n        State_Failed -> IllegalStateException(\"Iterator has failed.\")\r\n        else -> IllegalStateException(\"Unexpected state of the iterator: $state\")\r\n    }\r\n\r\n\r\n\r\n    override suspend fun yield(value: T) {\r\n        nextValue = value\r\n        state = State_Ready\r\n        return suspendCoroutineUninterceptedOrReturn { c ->\r\n            nextStep = c\r\n            COROUTINE_SUSPENDED\r\n        }\r\n    }\r\n\r\n    override suspend fun yieldAll(iterator: Iterator<T>) {\r\n        if (!iterator.hasNext()) return\r\n        nextIterator = iterator\r\n        state = State_ManyReady\r\n        return suspendCoroutineUninterceptedOrReturn { c ->\r\n            nextStep = c\r\n            COROUTINE_SUSPENDED\r\n        }\r\n    }\r\n\r\n    // Completion continuation implementation\r\n    override fun resumeWith(result: Result<Unit>) {\r\n        result.getOrThrow() // just rethrow exception if it is there\r\n        state = State_Done\r\n    }\r\n\r\n    override val context: CoroutineContext\r\n        get() = EmptyCoroutineContext\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.collections\r\n\r\ninternal fun checkWindowSizeStep(size: Int, step: Int) {\r\n    require(size > 0 && step > 0) {\r\n        if (size != step)\r\n            \"Both size $size and step $step must be greater than zero.\"\r\n        else\r\n            \"size $size must be greater than zero.\"\r\n    }\r\n}\r\n\r\ninternal fun <T> Sequence<T>.windowedSequence(size: Int, step: Int, partialWindows: Boolean, reuseBuffer: Boolean): Sequence<List<T>> {\r\n    checkWindowSizeStep(size, step)\r\n    return Sequence { windowedIterator(iterator(), size, step, partialWindows, reuseBuffer) }\r\n}\r\n\r\ninternal fun <T> windowedIterator(iterator: Iterator<T>, size: Int, step: Int, partialWindows: Boolean, reuseBuffer: Boolean): Iterator<List<T>> {\r\n    if (!iterator.hasNext()) return EmptyIterator\r\n    return iterator<List<T>> {\r\n        val gap = step - size\r\n        if (gap >= 0) {\r\n            var buffer = ArrayList<T>(size)\r\n            var skip = 0\r\n            for (e in iterator) {\r\n                if (skip > 0) { skip -= 1; continue }\r\n                buffer.add(e)\r\n                if (buffer.size == size) {\r\n                    yield(buffer)\r\n                    if (reuseBuffer) buffer.clear() else buffer = ArrayList(size)\r\n                    skip = gap\r\n                }\r\n            }\r\n            if (buffer.isNotEmpty()) {\r\n                if (partialWindows || buffer.size == size) yield(buffer)\r\n            }\r\n        } else {\r\n            val buffer = RingBuffer<T>(size)\r\n            for (e in iterator) {\r\n                buffer.add(e)\r\n                if (buffer.isFull()) {\r\n                    yield(if (reuseBuffer) buffer else ArrayList(buffer))\r\n                    buffer.removeFirst(step)\r\n                }\r\n            }\r\n            if (partialWindows) {\r\n                while (buffer.size > step) {\r\n                    yield(if (reuseBuffer) buffer else ArrayList(buffer))\r\n                    buffer.removeFirst(step)\r\n                }\r\n                if (buffer.isNotEmpty()) yield(buffer)\r\n            }\r\n        }\r\n    }\r\n}\r\n\r\ninternal class MovingSubList<out E>(private val list: List<E>) : AbstractList<E>(), RandomAccess {\r\n    private var fromIndex: Int = 0\r\n    private var _size: Int = 0\r\n\r\n\r\n    fun move(fromIndex: Int, toIndex: Int) {\r\n        checkRangeIndexes(fromIndex, toIndex, list.size)\r\n        this.fromIndex = fromIndex\r\n        this._size = toIndex - fromIndex\r\n    }\r\n\r\n\r\n    override fun get(index: Int): E {\r\n        checkElementIndex(index, _size)\r\n\r\n\r\n        return list[fromIndex + index]\r\n    }\r\n\r\n\r\n    override val size: Int get() = _size\r\n}\r\n\r\n\r\n\r\n\r\n/**\r\n * Provides ring buffer implementation.\r\n *\r\n * Buffer overflow is not allowed so [add] doesn't overwrite tail but raises an exception.\r\n */\r\nprivate class RingBuffer<T>(val capacity: Int) : AbstractList<T>(), RandomAccess {\r\n    init {\r\n        require(capacity >= 0) { \"ring buffer capacity should not be negative but it is $capacity\" }\r\n    }\r\n\r\n\r\n    private val buffer = arrayOfNulls<Any?>(capacity)\r\n    private var startIndex: Int = 0\r\n\r\n\r\n    override var size: Int = 0\r\n        private set\r\n\r\n\r\n    override fun get(index: Int): T {\r\n        checkElementIndex(index, size)\r\n        @Suppress(\"UNCHECKED_CAST\")\r\n        return buffer[startIndex.forward(index)] as T\r\n    }\r\n\r\n\r\n    fun isFull() = size == capacity\r\n\r\n\r\n    override fun
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iterator(): Iterator<T> = object : AbstractIterator<T>() {\r\n private var count = size\r\n private var index = startIndex\r\n\r\n override fun computeNext() {\r\n if (count == 0) {\r\n done()\r\n } else {\r\n @Suppress(\"UNCHECKED_CAST\")\r\n setNext(buffer[index] as T)\r\n index = index.forward(1)\r\n count--\r\n }\r\n }\r\n }\r\n\r\n @Suppress(\"UNCHECKED_CAST\")\r\n override fun <T> toArray(array: Array<T>): Array<T> {\r\n val result: Array<T?> =\r\n if (array.size < this.size) array.copyOf(this.size) else array as Array<T?>\r\n\r\n val size = this.size\r\n\r\n var widx = 0\r\n var idx = startIndex\r\n\r\n while (widx < size && idx < capacity) {\r\n result[widx] = buffer[idx] as T\r\n widx++\r\n idx++\r\n }\r\n\r\n idx = 0\r\n while (widx < size) {\r\n result[widx] = buffer[idx] as T\r\n widx++\r\n idx++\r\n }\r\n if (result.size > this.size) result[this.size] = null\r\n\r\n return result as Array<T>\r\n }\r\n\r\n override fun toArray(): Array<Any?> {\r\n return toArray(arrayOfNulls(size))\r\n }\r\n\r\n /**\r\n * Add [element] to the buffer or fail with [IllegalStateException] if no free space available in the buffer\r\n */\r\n fun add(element: T) {\r\n if (isFull()) {\r\n throw IllegalStateException(\"ring buffer is full\")\r\n }\r\n\r\n buffer[startIndex.forward(size)] = element\r\n size++\r\n }\r\n\r\n /**\r\n * Removes [n] first elements from the buffer or fails with [IllegalArgumentException] if not enough elements in the buffer to remove\r\n */\r\n fun removeFirst(n: Int) {\r\n require(n >= 0) { \"n shouldn't be negative but it is $n\" }\r\n require(n <= size) { \"n shouldn't be greater than the buffer size: n = $n, size = $size\" }\r\n\r\n if (n > 0) {\r\n val start = startIndex\r\n val end = start.forward(n)\r\n\r\n if (start > end) {\r\n buffer.fill(null, start, capacity)\r\n buffer.fill(null, 0, end)\r\n } else {\r\n buffer.fill(null, start, end)\r\n }\r\n\r\n startIndex = end\r\n size -= n\r\n }\r\n }\r\n\r\n\r\n @Suppress(\"NOTHING_TO_INLINE\")\r\n private inline fun Int.forward(n: Int): Int = (this + n) % capacity\r\n}\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.collections\r\n\r\n// UByteArray ==\r\n@ExperimentalUnsignedTypes\r\nprivate fun partition(\r\n array: UByteArray, left: Int, right: Int): Int {\r\n var i = left\r\n var j = right\r\n val pivot = array[(left + right) / 2]\r\n while (i <= j) {\r\n while (array[i] < pivot)\r\n i++\r\n while (array[j] > pivot)\r\n j--\r\n if (i <= j) {\r\n val tmp = array[i]\r\n array[i] = array[j]\r\n array[j] = tmp\r\n i++\r\n j--\r\n }\r\n }\r\n return i\r\n}\r\n\r\n@ExperimentalUnsignedTypes\r\nprivate fun quickSort(\r\n array: UByteArray, left: Int, right: Int) {\r\n val index = partition(array, left, right)\r\n if (left < index - 1)\r\n quickSort(array, left, index - 1)\r\n if (index < right)\r\n quickSort(array, index, right)\r\n}\r\n\r\n// UShortArray ==\r\n@ExperimentalUnsignedTypes\r\nprivate fun partition(\r\n array: UShortArray, left: Int, right: Int): Int {\r\n var i = left\r\n var j = right\r\n val pivot = array[(left + right) / 2]\r\n while (i <= j) {\r\n while (array[i] < pivot)\r\n i++\r\n while (array[j] > pivot)\r\n j--\r\n if (i <= j) {\r\n val tmp = array[i]\r\n array[i] = array[j]\r\n array[j] = tmp\r\n i++\r\n j--\r\n }\r\n }\r\n return i\r\n}\r\n\r\n@ExperimentalUnsignedTypes\r\nprivate fun quickSort(\r\n array: UShortArray, left: Int, right: Int) {\r\n val index = partition(array, left, right)\r\n if (left < index - 1)\r\n quickSort(array, left, index - 1)\r\n if (index < right)\r\n quickSort(array, index, right)\r\n}\r\n\r\n// UIntArray ==\r\n@ExperimentalUnsignedTypes\r\nprivate fun partition(\r\n array: UIntArray, left: Int, right: Int): Int {\r\n var i = left\r\n var j = right\r\n val pivot = array[(left + right) / 2]\r\n while (i <= j) {\r\n while (array[i] < pivot)\r\n i++\r\n while (array[j] > pivot)\r\n j--\r\n if (i <= j) {\r\n val tmp = array[i]\r\n array[i] = array[j]\r\n array[j] = tmp\r\n i++\r\n j--\r\n }\r\n }\r\n return i\r\n}\r\n\r\n@ExperimentalUnsignedTypes\r\nprivate fun quickSort(\r\n array: UIntArray, left: Int, right: Int) {\r\n val index = partition(array, left, right)\r\n if (left < index - 1)\r\n quickSort(array, left, index - 1)\r\n if (index < right)\r\n quickSort(array, index, right)\r\n}\r\n\r\n// ULongArray

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==========\r\n@ExperimentalUnsignedTypes\r\nprivate fun partition(\r\n    array: ULongArray, left: Int, right: Int): Int {\r\n    var i = left\r\n    var j = right\r\n    val pivot = array[(left + right) / 2]\r\n    while (i <= j) {\r\n        while (array[i] < pivot)\r\n            i++\r\n        while (array[j] > pivot)\r\n            j--\r\n        if (i <= j) {\r\n            val tmp = array[i]\r\n            array[i] = array[j]\r\n            array[j] = tmp\r\n            i++\r\n            j--\r\n        }\r\n    }\r\n    return i\r\n}\r\n\r\n@ExperimentalUnsignedTypes\r\nprivate fun quickSort(\r\n    array: ULongArray, left: Int, right: Int) {\r\n    val index = partition(array, left, right)\r\n    if (left < index - 1)\r\n        quickSort(array, left, index - 1)\r\n    if (index < right)\r\n        quickSort(array, index, right)\r\n}\r\n\r\n\r\n// Interfaces ==========\r\n/**\r\n * Sorts the given array using qsort algorithm.\r\n */\r\n@ExperimentalUnsignedTypes\r\ninternal fun sortArray(array: UByteArray)    = quickSort(array, 0, array.size - 1)\r\n@ExperimentalUnsignedTypes\r\ninternal fun sortArray(array: UShortArray)   = quickSort(array, 0, array.size - 1)\r\n@ExperimentalUnsignedTypes\r\ninternal fun sortArray(array: UIntArray)     = quickSort(array, 0, array.size - 1)\r\n@ExperimentalUnsignedTypes\r\ninternal fun sortArray(array: ULongArray)    = quickSort(array, 0, array.size - 1)","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\npackage kotlin.contracts\r\n\r\nimport kotlin.internal.ContractsDsl\r\nimport kotlin.internal.InlineOnly\r\n\r\n\r\n/**\r\n * This marker distinguishes the experimental contract declaration API and is used to opt-in for that feature\r\n * when declaring contracts of user functions.\r\n *\r\n * Any usage of a declaration annotated with `@ExperimentalContracts` must be accepted either by\r\n * annotating that usage with the [UseExperimental] annotation, e.g. `@UseExperimental(ExperimentalContracts::class)`,\r\n * or by using the compiler argument `-Xuse-experimental=kotlin.contracts.ExperimentalContracts`.\r\n */\r\n@Retention(AnnotationRetention.BINARY)\r\n@SinceKotlin(\"1.3\")\r\n@Experimental\r\n@MustBeDocumented\r\npublic annotation class ExperimentalContracts\r\n\r\n\r\n/**\r\n * Provides a scope, where the functions of the contract DSL, such as [returns], [callsInPlace], etc.,\r\n * can be used to describe the contract of a function.\r\n *\r\n * This type is used as a receiver type of the lambda function passed to the [contract] function.\r\n *\r\n * @see contract\r\n */\r\n@ContractsDsl\r\n@ExperimentalContracts\r\n@SinceKotlin(\"1.3\")\r\npublic interface ContractBuilder {\r\n    /**\r\n     * Describes a situation when a function returns normally, without any exceptions thrown.\r\n     *\r\n     * Use [SimpleEffect.implies] function to describe a conditional effect that happens in such case.\r\n     *\r\n     */\r\n    // @sample samples.contracts.returnsContract\r\n    @ContractsDsl public fun returns(): Returns\r\n\r\n\r\n    /**\r\n     * Describes a situation when a function returns normally with the specified return [value].\r\n     *\r\n     * The possible values of [value] are limited to `true`, `false` or `null`.\r\n     *\r\n     * Use [SimpleEffect.implies] function to describe a conditional effect that happens in such case.\r\n     *\r\n     */\r\n    // @sample samples.contracts.returnsTrueContract\r\n    // @sample samples.contracts.returnsFalseContract\r\n    // @sample samples.contracts.returnsNullContract\r\n    @ContractsDsl public fun returns(value: Any?): Returns\r\n\r\n\r\n    /**\r\n     * Describes a situation when a function returns normally with any value that is not `null`.\r\n     *\r\n     * Use [SimpleEffect.implies] function to describe a conditional effect that happens in such case.\r\n     *\r\n     */\r\n    // @sample samples.contracts.returnsNotNullContract\r\n    @ContractsDsl public fun returnsNotNull(): ReturnsNotNull\r\n\r\n\r\n    /**\r\n     * Specifies that the function parameter [lambda] is invoked in place.\r\n     *\r\n     * This contract specifies that:\r\n     * 1. the function [lambda] can only be invoked during the call of the owner function,\r\n     *  and it won't be invoked after that owner function call is completed;\r\n     * 2. _(optionally)_ the function [lambda] is invoked the amount of times specified by the [kind] parameter,\r\n     *  see the [InvocationKind] enum for possible values.\r\n     *\r\n     * A function declaring the `callsInPlace` effect must be _inline_.\r\n     *\r\n     */\r\n    /* @sample samples.contracts.callsInPlaceAtMostOnceContract\r\n     * @sample samples.contracts.callsInPlaceAtLeastOnceContract\r\n     * @sample samples.contracts.callsInPlaceExactlyOnceContract\r\n     * @sample samples.contracts.callsInPlaceUnknownContract\r\n     */\r\n    @ContractsDsl public fun <R> callsInPlace(lambda: Function<R>, kind: InvocationKind = InvocationKind.UNKNOWN): CallsInPlace\r\n}\r\n\r\n\r\n/**\r\n * Specifies
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how many times a function invokes its function parameter in place.\r\n *\r\n * See [ContractBuilder.callsInPlace] for the details of the call-in-place function contract.\r\n */\r\n@ContractsDsl\r\n@ExperimentalContracts\r\n@SinceKotlin(\"1.3\")\r\npublic enum class InvocationKind {\r\n /**\r\n * A function parameter will be invoked one time or not invoked at all.\r\n */\r\n // @sample samples.contracts.callsInPlaceAtMostOnceContract\r\n @ContractsDsl AT_MOST_ONCE,\r\n\r\n /**\r\n * A function parameter will be invoked one or more times.\r\n *\r\n */\r\n // @sample samples.contracts.callsInPlaceAtLeastOnceContract\r\n @ContractsDsl AT_LEAST_ONCE,\r\n\r\n /**\r\n * A function parameter will be invoked exactly one time.\r\n *\r\n */\r\n // @sample samples.contracts.callsInPlaceExactlyOnceContract\r\n @ContractsDsl EXACTLY_ONCE,\r\n\r\n /**\r\n * A function parameter is called in place, but it's unknown how many times it can be called.\r\n *\r\n */\r\n // @sample samples.contracts.callsInPlaceUnknownContract\r\n @ContractsDsl UNKNOWN\r\n}\r\n\r\n/**\r\n * Specifies the contract of a function.\r\n *\r\n * The contract description must be at the beginning of a function and have at least one effect.\r\n *\r\n * Only the top-level functions can have a contract for now.\r\n *\r\n * @param builder the lambda where the contract of a function is described with the help of the [ContractBuilder] members.\r\n *\r\n */\r\n/* @sample samples.contracts.returnsContract\r\n* @sample samples.contracts.returnsTrueContract\r\n* @sample samples.contracts.returnsFalseContract\r\n* @sample samples.contracts.returnsNullContract\r\n* @sample samples.contracts.returnsNotNullContract\r\n* @sample samples.contracts.callsInPlaceAtMostOnceContract\r\n* @sample samples.contracts.callsInPlaceAtLeastOnceContract\r\n* @sample samples.contracts.callsInPlaceExactlyOnceContract\r\n* @sample samples.contracts.callsInPlaceUnknownContract\r\n*/\r\n@ContractsDsl\r\n@ExperimentalContracts\r\n@InlineOnly\r\n@SinceKotlin(\"1.3\")\r\n@Suppress(\"UNUSED_PARAMETER\")\r\npublic inline fun contract(builder: ContractBuilder.() -> Unit) { }","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.coroutines\r\n\r\n/**\r\n * Marks coroutine context element that intercepts coroutine continuations.\r\n * The coroutines framework uses [ContinuationInterceptor.Key] to retrieve the interceptor and\r\n * intercepts all coroutine continuations with [interceptContinuation] invocations.\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic interface ContinuationInterceptor : CoroutineContext.Element {\r\n /**\r\n * The key that defines *the* context interceptor.\r\n */\r\n companion object Key : CoroutineContext.Key<ContinuationInterceptor>\r\n\r\n /**\r\n * Returns continuation that wraps the original [continuation], thus intercepting all resumptions.\r\n * This function is invoked by coroutines framework when needed and the resulting continuations are\r\n * cached internally per each instance of the original [continuation].\r\n *\r\n * This function may simply return original [continuation] if it does not want to intercept this particular continuation.\r\n *\r\n * When the original [continuation] completes, coroutine framework invokes [releaseInterceptedContinuation]\r\n * with the resulting continuation if it was intercepted, that is if `interceptContinuation` had previously\r\n * returned a different continuation instance.\r\n */\r\n public fun <T> interceptContinuation(continuation: Continuation<T>): Continuation<T>\r\n\r\n /**\r\n * Invoked for the continuation instance returned by [interceptContinuation] when the original\r\n * continuation completes and will not be used anymore. This function is invoked only if [interceptContinuation]\r\n * had returned a different continuation instance from the one it was invoked with.\r\n *\r\n * Default implementation does nothing.\r\n *\r\n * @param continuation Continuation instance returned by this interceptor's [interceptContinuation] invocation.\r\n */\r\n public fun releaseInterceptedContinuation(continuation: Continuation<*>) {\r\n /* do nothing by default */\r\n }\r\n\r\n // Performance optimization for a singleton Key\r\n public override operator fun <E : CoroutineContext.Element> get(key: CoroutineContext.Key<E>): E? =\r\n @Suppress(\"UNCHECKED_CAST\")\r\n if (key === Key) this as E else null\r\n\r\n // Performance optimization to a singleton Key\r\n public override fun minusKey(key: CoroutineContext.Key<*>): CoroutineContext =\r\n if (key === Key) EmptyCoroutineContext else this\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by

the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.coroutines\r\n\r\n/**\r\n * Persistent context for the coroutine. It is an indexed set of [Element] instances.\r\n * An indexed set is a mix between a set and a map.\r\n * Every element in this set has a unique [Key].\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic interface CoroutineContext {\r\n /**\r\n * Returns the element with the given [key] from this context or `null`.\r\n */\r\n public operator fun <E : Element> get(key: Key<E>): E?\r\n\r\n /**\r\n * Accumulates entries of this context starting with [initial] value and applying [operation]\r\n * from left to right to current accumulator value and each element of this context.\r\n */\r\n public fun <R> fold(initial: R, operation: (R, Element) -> R): R\r\n\r\n /**\r\n * Returns a context containing elements from this context and elements from other [context].\r\n * The elements from this context with the same key as in the other one are dropped.\r\n */\r\n public operator fun plus(context: CoroutineContext): CoroutineContext =\r\n if (context === EmptyCoroutineContext) this else // fast path -- avoid lambda creation\r\n context.fold(this) { acc, element ->\r\n val removed = acc.minusKey(element.key)\r\n if (removed === EmptyCoroutineContext) element else {\r\n // make sure interceptor is always last in the context (and thus is fast to get when present)\r\n val interceptor = removed[ContinuationInterceptor]\r\n if (interceptor == null) CombinedContext(removed, element) else {\r\n val left = removed.minusKey(ContinuationInterceptor)\r\n if (left === EmptyCoroutineContext) CombinedContext(element, interceptor) else\r\n CombinedContext(CombinedContext(left, element), interceptor)\r\n }\r\n }\r\n }\r\n\r\n /**\r\n * Returns a context containing elements from this context, but without an element with\r\n * the specified [key].\r\n */\r\n public fun minusKey(key: Key<*>): CoroutineContext\r\n\r\n\r\n /**\r\n * Key for the elements of [CoroutineContext]. [E] is a type of element with this key.\r\n */\r\n public interface Key<E : Element>\r\n\r\n\r\n /**\r\n * An element of the [CoroutineContext]. An element of the coroutine context is a singleton context by itself.\r\n */\r\n public interface Element : CoroutineContext {\r\n /**\r\n * A key of this coroutine context element.\r\n */\r\n public val key: Key<*>\r\n\r\n\r\n public override operator fun <E : Element> get(key: Key<E>): E? =\r\n @Suppress(\"UNCHECKED_CAST\")\r\n if (this.key == key) this as E else null\r\n\r\n\r\n public override fun <R> fold(initial: R, operation: (R, Element) -> R): R =\r\n operation(initial, this)\r\n\r\n\r\n public override fun minusKey(key: Key<*>): CoroutineContext =\r\n if (this.key == key) EmptyCoroutineContext else this\r\n }\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.coroutines\r\n\r\nimport kotlin.coroutines.CoroutineContext.*\r\nimport kotlin.io.Serializable\r\n\r\n/**\r\n * Base class for [CoroutineContext.Element] implementations.\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic abstract class AbstractCoroutineContextElement(public override val key: Key<*>) : Element\r\n\r\n/**\r\n * An empty coroutine context.\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic object EmptyCoroutineContext : CoroutineContext, Serializable {\r\n private const val serialVersionUID: Long = 0\r\n private fun readResolve(): Any = EmptyCoroutineContext\r\n\r\n public override fun <E : Element> get(key: Key<E>): E? = null\r\n public override fun <R> fold(initial: R, operation: (R, Element) -> R): R = initial\r\n public override fun plus(context: CoroutineContext): CoroutineContext = context\r\n public override fun minusKey(key: Key<*>): CoroutineContext = this\r\n public override fun hashCode(): Int = 0\r\n public override fun toString(): String = \"EmptyCoroutineContext\"\r\n}\r\n\r\n//---------- internal impl ----------\r\n\r\n// this class is not exposed, but is hidden inside implementations\r\n// this is a left-biased list, so that `plus` works naturally\r\n@SinceKotlin(\"1.3\")\r\ninternal class CombinedContext(\r\n private val left: CoroutineContext,\r\n private val element: Element\r\n) : CoroutineContext, Serializable {\r\n\r\n override fun <E : Element> get(key: Key<E>): E? {\r\n var cur = this\r\n while (true) {\r\n cur.element[key]?.let { return it }\r\n val next = cur.left\r\n if (next is CombinedContext) {\r\n cur = next\r\n } else {\r\n return next[key]\r\n }\r\n }\r\n }\r\n\r\n public override fun <R> fold(initial: R, operation: (R, Element) -> R): R =\r\n operation(left.fold(initial, operation), element)\r\n\r\n public override fun minusKey(key: Key<*>): CoroutineContext {\r\n element[key]?.let { return left }\r\n val newLeft =

left.minusKey(key)\r\n return when {\r\n newLeft === left -> this\r\n newLeft === EmptyCoroutineContext -> element\r\n else -> CombinedContext(newLeft, element)\r\n }\r\n }\r\n\r\n private fun size(): Int {\r\n var cur = this\r\n var size = 2\r\n while (true) {\r\n cur = cur.left as? CombinedContext ?: return size\r\n size++\r\n }\r\n }\r\n\r\n private fun contains(element: Element): Boolean =\r\n get(element.key) == element\r\n\r\n private fun containsAll(context: CombinedContext): Boolean {\r\n var cur = context\r\n while (true) {\r\n if (!contains(cur.element)) return false\r\n val next = cur.left\r\n if (next is CombinedContext) {\r\n cur = next\r\n } else {\r\n return contains(next as Element)\r\n }\r\n }\r\n }\r\n\r\n override fun equals(other: Any?): Boolean =\r\n this === other || other is CombinedContext && other.size() == size() && other.containsAll(this)\r\n\r\n override fun hashCode(): Int = left.hashCode() + element.hashCode()\r\n\r\n override fun toString(): String =\r\n \"[\" + fold(\"\") { acc, element ->\r\n if (acc.isEmpty()) element.toString() else \"$acc, $element\"\r\n } + \"]\"\r\n\r\n private fun writeReplace(): Any {\r\n val n = size()\r\n val elements = arrayOfNulls<CoroutineContext>(n)\r\n var index = 0\r\n fold(Unit) { _, element -> elements[index++] = element }\r\n check(index == n)\r\n @Suppress(\"UNCHECKED_CAST\")\r\n return Serialized(elements as Array<CoroutineContext>)\r\n }\r\n\r\n private class Serialized(val elements: Array<CoroutineContext>) : Serializable {\r\n companion object {\r\n private const val serialVersionUID: Long = 0L\r\n }\r\n\r\n private fun readResolve(): Any = elements.fold(EmptyCoroutineContext, CoroutineContext::plus)\r\n }\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmName(\"IntrinsicsKt\")\r\n@file:kotlin.jvm.JvmMultifileClass\r\n\r\npackage kotlin.coroutines.intrinsics\r\n\r\nimport kotlin.coroutines.*\r\nimport kotlin.internal.InlineOnly\r\n\r\n/**\r\n * Obtains the current continuation instance inside suspend functions and either suspends\r\n * currently running coroutine or returns result immediately without suspension.\r\n *\r\n * If the [block] returns the special [COROUTINE_SUSPENDED] value, it means that suspend function did suspend the execution and will\r\n * not return any result immediately. In this case, the [Continuation] provided to the [block] shall be\r\n * resumed by invoking [Continuation.resumeWith] at some moment in the\r\n * future when the result becomes available to resume the computation.\r\n *\r\n * Otherwise, the return value of the [block] must have a type assignable to [T] and represents the result of this suspend function.\r\n * It means that the execution was not suspended and the [Continuation] provided to the [block] shall not be invoked.\r\n * As the result type of the [block] is declared as `Any?` and cannot be correctly type-checked,\r\n * its proper return type remains on the conscience of the suspend function's author.\r\n *\r\n * Invocation of [Continuation.resumeWith] resumes coroutine directly in the invoker's thread without going through the\r\n * [ContinuationInterceptor] that might be present in the coroutine's [CoroutineContext].\r\n * It is the invoker's responsibility to ensure that a proper invocation context is established.\r\n * [Continuation.intercepted] can be used to acquire the intercepted continuation.\r\n *\r\n * Note that it is not recommended to call either [Continuation.resume] nor [Continuation.resumeWithException] functions synchronously\r\n * in the same stackframe where suspension function is run. Use [suspendCoroutine] as a safer way to obtain current\r\n * continuation instance.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@InlineOnly\r\n@Suppress(\"UNUSED_PARAMETER\", \"RedundantSuspendModifier\")\r\npublic suspend inline fun <T> suspendCoroutineUninterceptedOrReturn(crossinline block: (Continuation<T>) -> Any?): T =\r\n throw NotImplementedError(\"Implementation of suspendCoroutineUninterceptedOrReturn is intrinsic\")\r\n\r\n/**\r\n * This value is used as a return value of [suspendCoroutineUninterceptedOrReturn] `block` argument to state that\r\n * the execution was suspended and will not return any result immediately.\r\n *\r\n * **Note: this value should not be used in general code.** Using it outside of the context of\r\n * `suspendCoroutineUninterceptedOrReturn` function return value (including, but not limited to,\r\n * storing this value in other properties, returning it from other functions, etc)\r\n * can lead to unspecified behavior of the code.\r\n */\r\n// It is implemented as property with getter to avoid ProGuard <clinit> problem with multifile IntrinsicsKt class\r\n@SinceKotlin(\"1.3\")\r\npublic val

COROUTINE_SUSPENDED: Any get() = CoroutineSingletons.COROUTINE_SUSPENDED\r\n\r\n// Using enum here ensures two important properties:\r\n// 1. It makes SafeContinuation serializable with all kinds of serialization frameworks (since all of them natively support enums)\r\n// 2. It improves debugging experience, since you clearly see toString() value of those objects and what package they come from\r\n@SinceKotlin(\"1.3\")\r\n@PublishedApi // This class is Published API via serialized representation of SafeContinuation, don't rename/move\r\ninternal enum class CoroutineSingletons { COROUTINE_SUSPENDED, UNDECIDED, RESUMED }\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.experimental\r\n\r\n/** Performs a bitwise AND operation between the two values. */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline infix fun Byte.and(other: Byte): Byte = (this.toInt() and other.toInt()).toByte()\r\n\r\n/** Performs a bitwise OR operation between the two values. */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline infix fun Byte.or(other: Byte): Byte = (this.toInt() or other.toInt()).toByte()\r\n\r\n/** Performs a bitwise XOR operation between the two values. */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline infix fun Byte.xor(other: Byte): Byte = (this.toInt() xor other.toInt()).toByte()\r\n\r\n/** Inverts the bits in this value. */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Byte.inv(): Byte = (this.toInt().inv()).toByte()\r\n\r\n\r\n/** Performs a bitwise AND operation between the two values. */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline infix fun Short.and(other: Short): Short = (this.toInt() and other.toInt()).toShort()\r\n\r\n/** Performs a bitwise OR operation between the two values. */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline infix fun Short.or(other: Short): Short = (this.toInt() or other.toInt()).toShort()\r\n\r\n/** Performs a bitwise XOR operation between the two values. */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline infix fun Short.xor(other: Short): Short = (this.toInt() xor other.toInt()).toShort()\r\n\r\n/** Inverts the bits in this value. */\r\n@SinceKotlin(\"1.1\")\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Short.inv(): Short = (this.toInt().inv()).toShort()\r\n\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.experimental\r\n\r\n/**\r\n * The experimental marker for type inference augmenting annotations.\r\n *\r\n * Any usage of a declaration annotated with `@ExperimentalTypeInference` must be accepted either by\r\n * annotating that usage with the [UseExperimental] annotation, e.g. `@UseExperimental(ExperimentalTypeInference::class)`,\r\n * or by using the compiler argument `-Xuse-experimental=kotlin.experimental.ExperimentalTypeInference`.\r\n */\r\n@Experimental(level = Experimental.Level.ERROR)\r\n@MustBeDocumented\r\n@Retention(AnnotationRetention.BINARY)\r\n@Target(AnnotationTarget.ANNOTATION_CLASS)\r\n@SinceKotlin(\"1.3\")\r\npublic annotation class ExperimentalTypeInference\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.internal\r\n\r\n/**\r\n * Specifies that the corresponding type should be ignored during type inference.\r\n */\r\n@Target(AnnotationTarget.TYPE)\r\n@Retention(AnnotationRetention.BINARY)\r\ninternal annotation class NoInfer\r\n\r\n/**\r\n * Specifies that the constraint built for the type during type inference should be an equality one.\r\n */\r\n@Target(AnnotationTarget.TYPE)\r\n@Retention(AnnotationRetention.BINARY)\r\ninternal annotation class Exact\r\n\r\n/**\r\n * Specifies that a corresponding member has the lowest priority in overload resolution.\r\n */\r\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)\r\n@Retention(AnnotationRetention.BINARY)\r\ninternal annotation class LowPriorityInOverloadResolution\r\n\r\n/**\r\n * Specifies that the corresponding member has the highest priority in overload resolution. Effectively this means that\r\n * an extension annotated with this annotation will win in overload resolution over a member with the same signature.\r\n */\r\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)\r\n@Retention(AnnotationRetention.BINARY)\r\ninternal annotation class HidesMembers\r\n\r\n/**\r\n * The value of this type parameter should be mentioned in input types (argument types,

receiver type or expected type).\r\n
*/\r\n@Target(AnnotationTarget.TYPE_PARAMETER)\r\n@Retention(AnnotationRetention.BINARY)\r\ninternal annotation class OnlyInputTypes\r\n\r\n/**\r\n * Specifies that this function should not be called directly without inlining\r\n */\r\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY, AnnotationTarget.PROPERTY_GETTER, AnnotationTarget.PROPERTY_SETTER)\r\n@Retention(AnnotationRetention.BINARY)\r\ninternal annotation class InlineOnly\r\n\r\n/**\r\n * Specifies that this declaration can have dynamic receiver type.\r\n */\r\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)\r\n@Retention(AnnotationRetention.BINARY)\r\ninternal annotation class DynamicExtension\r\n\r\n/**\r\n * The value of this parameter should be a property reference expression (`this::foo`), referencing a `lateinit` property,\r\n * the backing field of which is accessible at the point where the corresponding argument is passed.\r\n */\r\n@Target(AnnotationTarget.VALUE_PARAMETER)\r\n@Retention(AnnotationRetention.BINARY)\r\n@SinceKotlin(\"1.2\")\r\ninternal annotation class AccessibleLateinitPropertyLiteral\r\n\r\n/**\r\n * Specifies that this declaration is only completely supported since the specified version.\r\n *\r\n * The Kotlin compiler of an earlier version is going to report a diagnostic on usages of this declaration.\r\n * The diagnostic message can be specified with [message], or via [errorCode] (takes less space, but might not be immediately clear\r\n * to the user). The diagnostic severity can be specified with [level]: WARNING/ERROR mean that either a warning or an error\r\n * is going to be reported, HIDDEN means that the declaration is going to be removed from resolution completely.\r\n *\r\n * [versionKind] specifies which version should be compared with the [version] value, when compiling the usage of the annotated declaration.\r\n * Note that prior to 1.2, only [RequireKotlinVersionKind.LANGUAGE_VERSION] was supported, so the Kotlin compiler before 1.2 is going to\r\n * treat any [RequireKotlin] as if it requires the language version. Since 1.2, the Kotlin compiler supports\r\n * [RequireKotlinVersionKind.LANGUAGE_VERSION], [RequireKotlinVersionKind.COMPILER_VERSION] and [RequireKotlinVersionKind.API_VERSION].\r\n * If the actual value of [versionKind] is something different (e.g. a new version kind, added in future versions of Kotlin),\r\n * Kotlin 1.2 is going to ignore this [RequireKotlin] altogether, where as Kotlin before 1.2 is going to treat this as a requirement\r\n * on the language version.\r\n *\r\n * This annotation is erased at compile time; its arguments are stored in a more compact form in the Kotlin metadata.\r\n */\r\n@Target(AnnotationTarget.CLASS, AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY, AnnotationTarget.CONSTRUCTOR, AnnotationTarget.TYPEALIAS)\r\n@Retention(AnnotationRetention.SOURCE)\r\n@Repeatable\r\n@SinceKotlin(\"1.2\")\r\ninternal annotation class RequireKotlin(\r\n   val version: String,\r\n   val message: String = \"\",\r\n   val level: DeprecationLevel = DeprecationLevel.ERROR,\r\n   val versionKind: RequireKotlinVersionKind = RequireKotlinVersionKind.LANGUAGE_VERSION,\r\n   val errorCode: Int = -1\r\n)\r\n\r\n/**\r\n * The kind of the version that is required by [RequireKotlin].\r\n */\r\n@SinceKotlin(\"1.2\")\r\ninternal enum class RequireKotlinVersionKind {\r\n   LANGUAGE_VERSION,\r\n   COMPILER_VERSION,\r\n   API_VERSION,\r\n}\r\n\r\n/**\r\n * Specifies that this declaration is a part of special DSL, used for constructing function's contract.\r\n */\r\n@Retention(AnnotationRetention.BINARY)\r\n@SinceKotlin(\"1.2\")\r\ninternal annotation class ContractsDsl\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.properties\r\n\r\nimport kotlin.reflect.KProperty\r\n\r\n/**\r\n * Standard property delegates.\r\n */\r\npublic object Delegates {\r\n   /**\r\n   * Returns a property delegate for a read/write property with a non-`null` value that is initialized not during\r\n   * object construction time but at a later time. Trying to read the property before the initial value has been\r\n   * assigned results in an exception.\r\n   *\r\n   * @sample samples.properties.Delegates.notNullDelegate\r\n   */\r\n   public fun <T : Any> notNull(): ReadWriteProperty<Any?, T> = NotNullVar()\r\n\r\n   /**\r\n   * Returns a property delegate for a read/write property that calls a specified callback function when changed.\r\n   * @param initialValue the initial value of the property.\r\n   * @param onChange the callback which is called after the change of the property is made. The value

of the property\r\n * has already been changed when this callback is invoked.\r\n *\r\n * @sample samples.properties.Delegates.observableDelegate\r\n */\r\n public inline fun <T> observable(initialValue: T, crossinline onChange: (property: KProperty<*>, oldValue: T, newValue: T) -> Unit):\r\n ReadWriteProperty<Any?, T> =\r\n object : ObservableProperty<T>(initialValue) {\r\n override fun afterChange(property: KProperty<*>, oldValue: T, newValue: T) = onChange(property, oldValue, newValue)\r\n }\r\n\r\n /**\r\n * Returns a property delegate for a read/write property that calls a specified callback function when changed,\r\n * allowing the callback to veto the modification.\r\n * @param initialValue the initial value of the property.\r\n * @param onChange the callback which is called before a change to the property value is attempted.\r\n * The value of the property hasn't been changed yet, when this callback is invoked.\r\n * If the callback returns `true` the value of the property is being set to the new value,\r\n * and if the callback returns `false` the new value is discarded and the property remains its old value.\r\n *\r\n * @sample samples.properties.Delegates.vetoableDelegate\r\n * @sample samples.properties.Delegates.throwVetoableDelegate\r\n */\r\n public inline fun <T> vetoable(initialValue: T, crossinline onChange: (property: KProperty<*>, oldValue: T, newValue: T) -> Boolean):\r\n ReadWriteProperty<Any?, T> =\r\n object : ObservableProperty<T>(initialValue) {\r\n override fun beforeChange(property: KProperty<*>, oldValue: T, newValue: T): Boolean = onChange(property, oldValue, newValue)\r\n }\r\n\r\n}\r\n\r\n\r\nprivate class NotNullVar<T : Any>() : ReadWriteProperty<Any?, T> {\r\n private var value: T? = null\r\n\r\n public override fun getValue(thisRef: Any?, property: KProperty<*>): T {\r\n return value ?: throw IllegalStateException(\"Property ${property.name} should be initialized before get.\")\r\n }\r\n\r\n public override fun setValue(thisRef: Any?, property: KProperty<*>, value: T) {\r\n this.value = value\r\n }\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.properties\r\n\r\nimport kotlin.reflect.KProperty\r\n\r\n/**\r\n * Implements the core logic of a property delegate for a read/write property that calls callback functions when changed.\r\n * @param initialValue the initial value of the property.\r\n */\r\npublic abstract class ObservableProperty<T>(initialValue: T) : ReadWriteProperty<Any?, T> {\r\n private var value = initialValue\r\n\r\n /**\r\n * The callback which is called before a change to the property value is attempted.\r\n * The value of the property hasn't been changed yet, when this callback is invoked.\r\n * If the callback returns `true` the value of the property is being set to the new value,\r\n * and if the callback returns `false` the new value is discarded and the property remains its old value.\r\n */\r\n protected open fun beforeChange(property: KProperty<*>, oldValue: T, newValue: T): Boolean = true\r\n\r\n /**\r\n * The callback which is called after the change of the property is made. The value of the property\r\n * has already been changed when this callback is invoked.\r\n */\r\n protected open fun afterChange(property: KProperty<*>, oldValue: T, newValue: T): Unit {}\r\n\r\n public override fun getValue(thisRef: Any?, property: KProperty<*>): T {\r\n return value\r\n }\r\n\r\n public override fun setValue(thisRef: Any?, property: KProperty<*>, value: T) {\r\n val oldValue = this.value\r\n if (!beforeChange(property, oldValue, value)) {\r\n return\r\n }\r\n this.value = value\r\n afterChange(property, oldValue, value)\r\n }\r\n}","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.random\r\n\r\nimport kotlin.math.nextDown\r\n\r\n/**\r\n * An abstract class that is implemented by random number generator algorithms.\r\n *\r\n * The companion object [Random.Default] is the default instance of [Random].\r\n *\r\n * To get a seeded instance of random generator use [Random] function.\r\n *\r\n * @sample samples.random.Randoms.defaultRandom\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic abstract class Random {\r\n\r\n /**\r\n * Gets the next random [bitCount] number of bits.\r\n *\r\n * Generates an `Int` whose lower [bitCount] bits are filled with random values and the remaining upper bits are zero.\r\n *\r\n * @param bitCount number of bits to generate, must be in range 0..32, otherwise the behavior is unspecified.\r\n */\r\n public abstract fun nextBits(bitCount: Int): Int\r\n\r\n /**\r\n * Gets the next random `Int` from the random number generator.\r\n *\r\n * Generates an `Int` random value uniformly distributed between

`Int.MIN_VALUE` and `Int.MAX_VALUE` (inclusive).\r\n */\r\n public open fun nextInt(): Int = nextBits(32)\r\n\r\n /**\r\n * Gets the next random non-negative `Int` from the random number generator less than the specified [until] bound.\r\n *\r\n * Generates an `Int` random value uniformly distributed between `0` (inclusive) and the specified [until] bound (exclusive).\r\n *\r\n * @param until must be positive.\r\n *\r\n * @throws IllegalArgumentException if [until] is negative or zero.\r\n */\r\n public open fun nextInt(until: Int): Int = nextInt(0, until)\r\n\r\n /**\r\n * Gets the next random `Int` from the random number generator in the specified range.\r\n *\r\n * Generates an `Int` random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\r\n *\r\n * @throws IllegalArgumentException if [from] is greater than or equal to [until].\r\n */\r\n public open fun nextInt(from: Int, until: Int): Int {\r\n checkRangeBounds(from, until)\r\n val n = until - from\r\n if (n > 0 || n == Int.MIN_VALUE) {\r\n val rnd = if (n and -n == n) {\r\n val bitCount = fastLog2(n)\r\n nextBits(bitCount)\r\n } else {\r\n var v: Int\r\n do {\r\n val bits = nextInt().ushr(1)\r\n v = bits % n\r\n } while (bits - v + (n - 1) < 0)\r\n v\r\n }\r\n return from + rnd\r\n } else {\r\n while (true) {\r\n val rnd = nextInt()\r\n if (rnd in from until until) return rnd\r\n }\r\n }\r\n }\r\n\r\n /**\r\n * Gets the next random `Long` from the random number generator.\r\n *\r\n * Generates a `Long` random value uniformly distributed between `Long.MIN_VALUE` and `Long.MAX_VALUE` (inclusive).\r\n */\r\n public open fun nextLong(): Long = nextInt().toLong().shl(32) + nextInt()\r\n\r\n /**\r\n * Gets the next random non-negative `Long` from the random number generator less than the specified [until] bound.\r\n *\r\n * Generates a `Long` random value uniformly distributed between `0` (inclusive) and the specified [until] bound (exclusive).\r\n *\r\n * @param until must be positive.\r\n *\r\n * @throws IllegalArgumentException if [until] is negative or zero.\r\n */\r\n public open fun nextLong(until: Long): Long = nextLong(0, until)\r\n\r\n /**\r\n * Gets the next random `Long` from the random number generator in the specified range.\r\n *\r\n * Generates a `Long` random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\r\n *\r\n * @throws IllegalArgumentException if [from] is greater than or equal to [until].\r\n */\r\n public open fun nextLong(from: Long, until: Long): Long {\r\n checkRangeBounds(from, until)\r\n val n = until - from\r\n if (n > 0) {\r\n val rnd: Long\r\n if (n and -n == n) {\r\n val nLow = n.toInt()\r\n val nHigh = (n ushr 32).toInt()\r\n rnd = when {\r\n nLow != 0 -> {\r\n val bitCount = fastLog2(nLow)\r\n // toUInt().toLong()\r\n nextBits(bitCount).toLong() and 0xFFFF_FFFF\r\n }\r\n nHigh == 1 ->\r\n // toUInt().toLong()\r\n nextInt().toLong() and 0xFFFF_FFFF\r\n else -> {\r\n val bitCount = fastLog2(nHigh)\r\n nextBits(bitCount).toLong().shl(32) + nextInt()\r\n }\r\n }\r\n } else {\r\n var v: Long\r\n do {\r\n val bits = nextLong().ushr(1)\r\n v = bits % n\r\n } while (bits - v + (n - 1) < 0)\r\n rnd = v\r\n }\r\n return from + rnd\r\n } else {\r\n while (true) {\r\n val rnd = nextLong()\r\n if (rnd in from until until) return rnd\r\n }\r\n }\r\n }\r\n\r\n /**\r\n * Gets the next random [Boolean] value.\r\n */\r\n public open fun nextBoolean(): Boolean = nextBits(1) != 0\r\n\r\n /**\r\n * Gets the next random [Double] value uniformly distributed between 0 (inclusive) and 1 (exclusive).\r\n */\r\n public open fun nextDouble(): Double = doubleFromParts(nextBits(26), nextBits(27))\r\n\r\n /**\r\n * Gets the next random non-negative `Double` from the random number generator less than the specified [until] bound.\r\n *\r\n * Generates a `Double` random value uniformly distributed between 0 (inclusive) and [until] (exclusive).\r\n *\r\n * @throws IllegalArgumentException if [until] is negative or zero.\r\n */\r\n public open fun nextDouble(until: Double): Double = nextDouble(0.0, until)\r\n\r\n /**\r\n * Gets the next random `Double` from the random number generator in the specified range.\r\n *\r\n * Generates a `Double` random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\r\n *\r\n * [from] and [until] must be finite otherwise the behavior is unspecified.\r\n *\r\n * @throws IllegalArgumentException if [from] is greater than or equal to [until].\r\n */\r\n public open fun nextDouble(from: Double, until: Double): Double {\r\n checkRangeBounds(from, until)\r\n val size = until - from\r\n val r = if (size.isInfinite() && from.isFinite()

&& until.isFinite()) {\r\n val r1 = nextDouble() * (until / 2 - from / 2)\r\n from + r1 + r1\r\n } else {\r\n from + nextDouble() * size\r\n }\r\n return if (r >= until) until.nextDown() else r\r\n }\r\n\r\n /**\r\n * Gets the next random [Float] value uniformly distributed between 0 (inclusive) and 1 (exclusive).\r\n */\r\n public open fun nextFloat(): Float = nextBits(24) / (1 shl 24).toFloat()\r\n\r\n /**\r\n * Fills a subrange of the specified byte [array] starting from [fromIndex] inclusive and ending [toIndex] exclusive\r\n * with random bytes.\r\n *\r\n * @return [array] with the subrange filled with random bytes.\r\n */\r\n public open fun nextBytes(array: ByteArray, fromIndex: Int = 0, toIndex: Int = array.size): ByteArray {\r\n require(fromIndex in 0..array.size && toIndex in 0..array.size) { \"fromIndex ($fromIndex) or toIndex ($toIndex) are out of range: 0..${array.size}.\" }\r\n require(fromIndex <= toIndex) { \"fromIndex ($fromIndex) must be not greater than toIndex ($toIndex).\" }\r\n\r\n val steps = (toIndex - fromIndex) / 4\r\n\r\n var position = fromIndex\r\n repeat(steps) {\r\n val v = nextInt()\r\n array[position] = v.toByte()\r\n array[position + 1] = v.ushr(8).toByte()\r\n array[position + 2] = v.ushr(16).toByte()\r\n array[position + 3] = v.ushr(24).toByte()\r\n position += 4\r\n }\r\n\r\n val remainder = toIndex - position\r\n val vr = nextBits(remainder * 8)\r\n for (i in 0 until remainder) {\r\n array[position + i] = vr.ushr(i * 8).toByte()\r\n }\r\n\r\n return array\r\n }\r\n\r\n /**\r\n * Fills the specified byte [array] with random bytes and returns it.\r\n *\r\n * @return [array] filled with random bytes.\r\n */\r\n public open fun nextBytes(array: ByteArray): ByteArray = nextBytes(array, 0, array.size)\r\n\r\n /**\r\n * Creates a byte array of the specified [size], filled with random bytes.\r\n */\r\n public open fun nextBytes(size: Int): ByteArray = nextBytes(ByteArray(size))\r\n\r\n\r\n /**\r\n * The default random number generator.\r\n *\r\n * On JVM this generator is thread-safe, its methods can be invoked from multiple threads.\r\n *\r\n * @sample samples.random.Randoms.defaultRandom\r\n */\r\n companion object Default : Random() {\r\n\r\n private val defaultRandom: Random = defaultPlatformRandom()\r\n\r\n override fun nextBits(bitCount: Int): Int = defaultRandom.nextBits(bitCount)\r\n override fun nextInt(): Int = defaultRandom.nextInt()\r\n override fun nextInt(until: Int): Int = defaultRandom.nextInt(until)\r\n override fun nextInt(from: Int, until: Int): Int = defaultRandom.nextInt(from, until)\r\n\r\n override fun nextLong(): Long = defaultRandom.nextLong()\r\n override fun nextLong(until: Long): Long = defaultRandom.nextLong(until)\r\n override fun nextLong(from: Long, until: Long): Long = defaultRandom.nextLong(from, until)\r\n\r\n override fun nextBoolean(): Boolean = defaultRandom.nextBoolean()\r\n\r\n override fun nextDouble(): Double = defaultRandom.nextDouble()\r\n override fun nextDouble(until: Double): Double = defaultRandom.nextDouble(until)\r\n override fun nextDouble(from: Double, until: Double): Double = defaultRandom.nextDouble(from, until)\r\n\r\n override fun nextFloat(): Float = defaultRandom.nextFloat()\r\n\r\n override fun nextBytes(array: ByteArray): ByteArray = defaultRandom.nextBytes(array)\r\n override fun nextBytes(size: Int): ByteArray = defaultRandom.nextBytes(size)\r\n override fun nextBytes(array: ByteArray, fromIndex: Int, toIndex: Int): ByteArray = defaultRandom.nextBytes(array, fromIndex, toIndex)\r\n\r\n @Deprecated(\"Use Default companion object instead\", level = DeprecationLevel.HIDDEN)\r\n @Suppress(\"DEPRECATION_ERROR\")\r\n @kotlin.jvm.JvmField\r\n public val Companion: Random.Companion = Random.Companion\r\n }\r\n\r\n @Deprecated(\"Use Default companion object instead\", level = DeprecationLevel.HIDDEN)\r\n public object Companion : Random() {\r\n override fun nextBits(bitCount: Int): Int = Default.nextBits(bitCount)\r\n }\r\n}\r\n\r\n/**\r\n * Returns a repeatable random number generator seeded with the given [seed] `Int` value.\r\n *\r\n * Two generators with the same seed produce the same sequence of values within the same version of Kotlin runtime.\r\n *\r\n * *Note:* Future versions of Kotlin may change the algorithm of this seeded number generator so that it will return\r\n * a sequence of values different from the current one for a given seed.\r\n *\r\n * @sample samples.random.Randoms.seededRandom\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic fun Random(seed: Int): Random = XorWowRandom(seed, seed.shr(31))\r\n\r\n/**\r\n * Returns a repeatable random number generator seeded with the given [seed] `Long` value.\r\n *\r\n * Two generators with the same seed produce the same sequence of values within the same version of Kotlin runtime.\r\n *\r\n * *Note:* Future versions of Kotlin may change the algorithm of this seeded number generator so that it will return\r\n * a sequence of values different from the current one for a given seed.\r\n *\r\n *

@sample samples.random.Randoms.seededRandom\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic fun Random(seed: Long): Random = XorWowRandom(seed.toInt(), seed.shr(32).toInt())\r\n\r\n\r\n\r\n\r\n/**\r\n * Gets the next random `Int` from the random number generator in the specified [range].\r\n *\r\n * Generates an `Int` random value uniformly distributed in the specified [range]:\r\n * from `range.start` inclusive to `range.endInclusive` inclusive.\r\n *\r\n * @throws IllegalArgumentException if [range] is empty.\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic fun Random.nextInt(range: IntRange): Int = when {\r\n range.isEmpty() -> throw IllegalArgumentException(\"Cannot get random in empty range: $range\")\r\n range.last < Int.MAX_VALUE -> nextInt(range.first, range.last + 1)\r\n range.first > Int.MIN_VALUE -> nextInt(range.first - 1, range.last) + 1\r\n else -> nextInt()\r\n}\r\n\r\n/**\r\n * Gets the next random `Long` from the random number generator in the specified [range].\r\n *\r\n * Generates a `Long` random value uniformly distributed in the specified [range]:\r\n * from `range.start` inclusive to `range.endInclusive` inclusive.\r\n *\r\n * @throws IllegalArgumentException if [range] is empty.\r\n */\r\n@SinceKotlin(\"1.3\")\r\npublic fun Random.nextLong(range: LongRange): Long = when {\r\n range.isEmpty() -> throw IllegalArgumentException(\"Cannot get random in empty range: $range\")\r\n range.last < Long.MAX_VALUE -> nextLong(range.start, range.endInclusive + 1)\r\n range.start > Long.MIN_VALUE -> nextLong(range.start - 1, range.endInclusive) + 1\r\n else -> nextLong()\r\n}\r\n\r\n\r\ninternal expect fun defaultPlatformRandom(): Random\r\ninternal expect fun doubleFromParts(hi26: Int, low27: Int): Double\r\n\r\n@UseExperimental(ExperimentalStdlibApi::class)\r\ninternal fun fastLog2(value: Int): Int = 31 - value.countLeadingZeroBits()\r\n\r\n/** Takes upper [bitCount] bits (0..32) from this number. */\r\ninternal fun Int.takeUpperBits(bitCount: Int): Int =\r\n this.ushr(32 - bitCount) and (-bitCount).shr(31)\r\n\r\ninternal fun checkRangeBounds(from: Int, until: Int) = require(until > from) { boundsErrorMessage(from, until) }\r\ninternal fun checkRangeBounds(from: Long, until: Long) = require(until > from) { boundsErrorMessage(from, until) }\r\ninternal fun checkRangeBounds(from: Double, until: Double) = require(until > from) { boundsErrorMessage(from, until) }\r\n\r\ninternal fun boundsErrorMessage(from: Any, until: Any) = \"Random range is empty: [$from, $until).\"\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.random\r\n\r\n\r\n/**\r\n * Gets the next random [UInt] from the random number generator.\r\n *\r\n * Generates a [UInt] random value uniformly distributed between [UInt.MIN_VALUE] and [UInt.MAX_VALUE] (inclusive).\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun Random.nextUInt(): UInt = nextInt().toUInt()\r\n\r\n/**\r\n * Gets the next random [UInt] from the random number generator less than the specified [until] bound.\r\n *\r\n * Generates a [UInt] random value uniformly distributed between `0` (inclusive) and the specified [until] bound (exclusive).\r\n *\r\n * @throws IllegalArgumentException if [until] is zero.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun Random.nextUInt(until: UInt): UInt = nextUInt(0u, until)\r\n\r\n/**\r\n * Gets the next random [UInt] from the random number generator in the specified range.\r\n *\r\n * Generates a [UInt] random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\r\n *\r\n * @throws IllegalArgumentException if [from] is greater than or equal to [until].\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun Random.nextUInt(from: UInt, until: UInt): UInt {\r\n checkUIntRangeBounds(from, until)\r\n\r\n val signedFrom = from.toInt() xor Int.MIN_VALUE\r\n val signedUntil = until.toInt() xor Int.MIN_VALUE\r\n\r\n val signedResult = nextInt(signedFrom, signedUntil) xor Int.MIN_VALUE\r\n return signedResult.toUInt()\r\n}\r\n\r\n/**\r\n * Gets the next random [UInt] from the random number generator in the specified [range].\r\n *\r\n * Generates a [UInt] random value uniformly distributed in the specified [range]:\r\n * from `range.start` inclusive to `range.endInclusive` inclusive.\r\n *\r\n * @throws IllegalArgumentException if [range] is empty.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun Random.nextUInt(range: UIntRange): UInt = when {\r\n range.isEmpty() -> throw IllegalArgumentException(\"Cannot get random in empty range: $range\")\r\n range.last < UInt.MAX_VALUE -> nextUInt(range.first, range.last + 1u)\r\n range.first > UInt.MIN_VALUE -> nextUInt(range.first - 1u, range.last) + 1u\r\n else -> nextUInt()\r\n}\r\n\r\n/**\r\n * Gets the next random [ULong] from the random number generator.\r\n *\r\n * Generates a [ULong] random value

uniformly distributed between [ULong.MIN_VALUE] and [ULong.MAX_VALUE] (inclusive).\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun Random.nextULong(): ULong = nextLong().toULong()\r\n\r\n/**\r\n * Gets the next random [ULong] from the random number generator less than the specified [until] bound.\r\n *\r\n * Generates a [ULong] random value uniformly distributed between `0` (inclusive) and the specified [until] bound (exclusive).\r\n *\r\n * @throws IllegalArgumentException if [until] is zero.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun Random.nextULong(until: ULong): ULong = nextULong(0uL, until)\r\n\r\n/**\r\n * Gets the next random [ULong] from the random number generator in the specified range.\r\n *\r\n * Generates a [ULong] random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\r\n *\r\n * @throws IllegalArgumentException if [from] is greater than or equal to [until].\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun Random.nextULong(from: ULong, until: ULong): ULong {\r\n checkULongRangeBounds(from, until)\r\n\r\n val signedFrom = from.toLong() xor Long.MIN_VALUE\r\n val signedUntil = until.toLong() xor Long.MIN_VALUE\r\n\r\n val signedResult = nextLong(signedFrom, signedUntil) xor Long.MIN_VALUE\r\n return signedResult.toULong()\r\n}\r\n\r\n/**\r\n * Gets the next random [ULong] from the random number generator in the specified [range].\r\n *\r\n * Generates a [ULong] random value uniformly distributed in the specified [range]:\r\n * from `range.start` inclusive to `range.endInclusive` inclusive.\r\n *\r\n * @throws IllegalArgumentException if [range] is empty.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun Random.nextULong(range: ULongRange): ULong = when {\r\n range.isEmpty() -> throw IllegalArgumentException(\"Cannot get random in empty range: $range\")\r\n range.last < ULong.MAX_VALUE -> nextULong(range.first, range.last + 1u)\r\n range.first > ULong.MIN_VALUE -> nextULong(range.first - 1u, range.last) + 1u\r\n else -> nextULong()\r\n}\r\n\r\n/**\r\n * Fills the specified unsigned byte [array] with random bytes and returns it.\r\n *\r\n * @return [array] filled with random bytes.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun Random.nextUBytes(array: UByteArray): UByteArray {\r\n nextBytes(array.asByteArray())\r\n return array\r\n}\r\n\r\n/**\r\n * Creates an unsigned byte array of the specified [size], filled with random bytes.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun Random.nextUBytes(size: Int): UByteArray = nextBytes(size).asUByteArray()\r\n\r\n/**\r\n * Fills a subrange of the specified `UByte` [array] starting from [fromIndex] inclusive and ending [toIndex] exclusive with random UBytes.\r\n *\r\n * @return [array] with the subrange filled with random bytes.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun Random.nextUBytes(array: UByteArray, fromIndex: Int = 0, toIndex: Int = array.size): UByteArray {\r\n nextBytes(array.asByteArray(), fromIndex, toIndex)\r\n return array\r\n}\r\n\r\n\r\n@ExperimentalUnsignedTypes\r\ninternal fun checkUIntRangeBounds(from: UInt, until: UInt) = require(until > from) { boundsErrorMessage(from, until) }\r\n@ExperimentalUnsignedTypes\r\ninternal fun checkULongRangeBounds(from: ULong, until: ULong) = require(until > from) { boundsErrorMessage(from, until) }\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.random\r\n\r\n/**\r\n * Random number generator, algorithm \"xorwow\" from p. 5 of Marsaglia, \"Xorshift RNGs\".\r\n *\r\n * Cycles after 2^160 * (2^32-1) repetitions.\r\n *\r\n * See http://www.jstatsoft.org/v08/i14/paper for details.\r\n */\r\ninternal class XorWowRandom\r\ninternal constructor(\r\n private var x: Int,\r\n private var y: Int,\r\n private var z: Int,\r\n private var w: Int,\r\n private var v: Int,\r\n private var addend: Int\r\n) : Random() {\r\n\r\n internal constructor(seed1: Int, seed2: Int) :\r\n this(seed1, seed2, 0, 0, seed1.inv(), (seed1 shl 10) xor (seed2 ushr 4))\r\n\r\n init {\r\n require((x or y or z or w or v) != 0) { \"Initial state must have at least one non-zero element.\" }\r\n\r\n // some trivial seeds can produce several values with zeroes in upper bits, so we discard first 64\r\n repeat(64) { nextInt() }\r\n }\r\n\r\n override fun nextInt(): Int {\r\n var t = x\r\n t = t xor (t ushr 2)\r\n x = y\r\n y = z\r\n z = w\r\n val v0 = v\r\n w = v0\r\n t = (t xor (t shl 1)) xor v0 xor (v0 shl 4)\r\n v = t\r\n addend += 362437\r\n return t + addend\r\n }\r\n\r\n override fun

nextBits(bitCount: Int): Int =\r\n nextInt().takeUpperBits(bitCount)\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"RangesKt\")\r\n\r\npackage kotlin.ranges\r\n\r\n/**\r\n * Represents a range of floating point numbers.\r\n * Extends [ClosedRange] interface providing custom operation [lessThanOrEquals] for comparing values of range domain type.\r\n *\r\n * This interface is implemented by floating point ranges returned by [Float.rangeTo] and [Double.rangeTo] operators to\r\n * achieve IEEE-754 comparison order instead of total order of floating point numbers.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic interface ClosedFloatingPointRange<T : Comparable<T>> : ClosedRange<T> {\r\n override fun contains(value: T): Boolean = lessThanOrEquals(start, value) && lessThanOrEquals(value, endInclusive)\r\n override fun isEmpty(): Boolean = !lessThanOrEquals(start, endInclusive)\r\n\r\n\r\n /**\r\n * Compares two values of range domain type and returns true if first is less than or equal to second.\r\n */\r\n fun lessThanOrEquals(a: T, b: T): Boolean\r\n}\r\n\r\n\r\n/**\r\n * Represents a range of [Comparable] values.\r\n */\r\nprivate open class ComparableRange<T : Comparable<T>>(\r\n override val start: T,\r\n override val endInclusive: T\r\n) : ClosedRange<T> {\r\n\r\n override fun equals(other: Any?): Boolean {\r\n return other is ComparableRange<*> && (isEmpty() && other.isEmpty() ||\r\n start == other.start && endInclusive == other.endInclusive)\r\n }\r\n\r\n override fun hashCode(): Int {\r\n return if (isEmpty()) -1 else 31 * start.hashCode() + endInclusive.hashCode()\r\n }\r\n\r\n override fun toString(): String = \"$start..$endInclusive\"\r\n}\r\n\r\n\r\n/**\r\n * A closed range of values of type `Double`.\r\n *\r\n * Numbers are compared with the ends of this range according to IEEE-754.\r\n */\r\nprivate class ClosedDoubleRange(\r\n start: Double,\r\n endInclusive: Double\r\n) : ClosedFloatingPointRange<Double> {\r\n private val _start = start\r\n private val _endInclusive = endInclusive\r\n override val start: Double get() = _start\r\n override val endInclusive: Double get() = _endInclusive\r\n\r\n\r\n override fun lessThanOrEquals(a: Double, b: Double): Boolean = a <= b\r\n\r\n\r\n override fun contains(value: Double): Boolean = value >= _start && value <= _endInclusive\r\n override fun isEmpty(): Boolean = !(_start <= _endInclusive)\r\n\r\n\r\n override fun equals(other: Any?): Boolean {\r\n return other is ClosedDoubleRange && (isEmpty() && other.isEmpty() ||\r\n _start == other._start && _endInclusive == other._endInclusive)\r\n }\r\n\r\n\r\n override fun hashCode(): Int {\r\n return if (isEmpty()) -1 else 31 * _start.hashCode() + _endInclusive.hashCode()\r\n }\r\n\r\n override fun toString(): String = \"$_start..$_endInclusive\"\r\n}\r\n\r\n\r\n\r\n/**\r\n * Creates a range from this [Comparable] value to the specified [that] value.\r\n *\r\n * This value needs to be smaller than [that] value, otherwise the returned range will be empty.\r\n * @sample samples.ranges.Ranges.rangeFromComparable\r\n */\r\npublic operator fun <T : Comparable<T>> T.rangeTo(that: T): ClosedRange<T> = ComparableRange(this, that)\r\n\r\n\r\n/**\r\n * Creates a range from this [Double] value to the specified [that] value.\r\n *\r\n * Numbers are compared with the ends of this range according to IEEE-754.\r\n * @sample samples.ranges.Ranges.rangeFromDouble\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic operator fun Double.rangeTo(that: Double): ClosedFloatingPointRange<Double> = ClosedDoubleRange(this, that)\r\n\r\n\r\n\r\n/**\r\n * Returns `true` if this iterable range contains the specified [element].\r\n *\r\n * Always returns `false` if the [element] is `null`.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <T, R> R.contains(element: T?): Boolean where T : Any, R : Iterable<T>, R : ClosedRange<T> =\r\n element != null && contains(element)\r\n\r\n\r\n\r\ninternal fun checkStepIsPositive(isPositive: Boolean, step: Number) {\r\n if (!isPositive) throw IllegalArgumentException(\"Step must be positive, was: $step.\")\r\n}\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\npackage kotlin.reflect\r\n\r\n\r\n/**\r\n * Returns a runtime representation of the given reified type [T] as an instance of [KType].\r\n */\r\n@Suppress(\"unused\") // KT-12448\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic inline fun <reified T> typeOf(): KType =\r\n throw UnsupportedOperationException(\"This function is implemented as an intrinsic on all supported platforms.\")\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n

* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"CharsKt\")\r\n\r\npackage kotlin.text\r\n\r\n/**\r\n * Concatenates this Char and a String.\r\n *\r\n * @sample samples.text.Chars.plus\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun Char.plus(other: String): String = this.toString() + other\r\n\r\n/**\r\n * Returns `true` if this character is equal to the [other] character, optionally ignoring character case.\r\n *\r\n * @param ignoreCase `true` to ignore character case when comparing characters. By default `false`.\r\n *\r\n * Two characters are considered the same ignoring case if at least one of the following is `true`:\r\n * - The two characters are the same (as compared by the == operator)\r\n * - Applying the method [toUpperCase] to each character produces the same result\r\n * - Applying the method [toLowerCase] to each character produces the same result\r\n *\r\n * @sample samples.text.Chars.equals\r\n */\r\npublic fun Char.equals(other: Char, ignoreCase: Boolean = false): Boolean {\r\n   if (this == other) return true\r\n   if (!ignoreCase) return false\r\n\r\n   if (this.toUpperCase() == other.toUpperCase()) return true\r\n   if (this.toLowerCase() == other.toLowerCase()) return true\r\n   return false\r\n}\r\n\r\n/**\r\n * Returns `true` if this character is a Unicode surrogate code unit.\r\n */\r\npublic fun Char.isSurrogate(): Boolean = this in Char.MIN_SURROGATE..Char.MAX_SURROGATE\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"StringsKt\")\r\n\r\n\r\npackage kotlin.text\r\n\r\n\r\n/**\r\n * Trims leading whitespace characters followed by [marginPrefix] from every line of a source string and removes\r\n * the first and the last lines if they are blank (notice difference blank vs empty).\r\n *\r\n * Doesn't affect a line if it doesn't contain [marginPrefix] except the first and the last blank lines.\r\n *\r\n * Doesn't preserve the original line endings.\r\n *\r\n * @param marginPrefix non-blank string, which is used as a margin delimiter. Default is `|` (pipe character).\r\n *\r\n * @sample samples.text.Strings.trimMargin\r\n * @see trimIndent\r\n * @see kotlin.text.isWhitespace\r\n */\r\npublic fun String.trimMargin(marginPrefix: String = \"|\"): String =\r\n   replaceIndentByMargin(\"\", marginPrefix)\r\n\r\n\r\n/**\r\n * Detects indent by [marginPrefix] as it does [trimMargin] and replace it with [newIndent].\r\n *\r\n * @param marginPrefix non-blank string, which is used as a margin delimiter. Default is `|` (pipe character).\r\n */\r\npublic fun String.replaceIndentByMargin(newIndent: String = \"\", marginPrefix: String = \"|\"): String {\r\n   require(marginPrefix.isNotBlank()) { \"marginPrefix must be non-blank string.\" }\r\n   val lines = lines()\r\n\r\n\r\n   return lines.reindent(length + newIndent.length * lines.size, getIndentFunction(newIndent), { line ->\r\n   val firstNonWhitespaceIndex = line.indexOfFirst { !it.isWhitespace() }\r\n\r\n\r\n   when {\r\n   firstNonWhitespaceIndex == -1 -> null\r\n   line.startsWith(marginPrefix, firstNonWhitespaceIndex) -> line.substring(firstNonWhitespaceIndex + marginPrefix.length)\r\n   else -> null\r\n   }\r\n   })\r\n}\r\n\r\n\r\n/**\r\n * Detects a common minimal indent of all the input lines, removes it from every line and also removes the first and the last\r\n * lines if they are blank (notice difference blank vs empty).\r\n *\r\n * Note that blank lines do not affect the detected indent level.\r\n *\r\n * In case if there are non-blank lines with no leading whitespace characters (no indent at all) then the\r\n * common indent is 0, and therefore this function doesn't change the indentation.\r\n *\r\n * Doesn't preserve the original line endings.\r\n *\r\n * @sample samples.text.Strings.trimIndent\r\n * @see trimMargin\r\n * @see kotlin.text.isBlank\r\n */\r\npublic fun String.trimIndent(): String = replaceIndent(\"\")\r\n\r\n\r\n/**\r\n * Detects a common minimal indent like it does [trimIndent] and replaces it with the specified [newIndent].\r\n */\r\npublic fun String.replaceIndent(newIndent: String = \"\"): String {\r\n   val lines = lines()\r\n\r\n\r\n   val minCommonIndent = lines\r\n   .filter(String::isNotBlank)\r\n   .map(String::indentWidth)\r\n   .min() ?: 0\r\n\r\n\r\n   return lines.reindent(length + newIndent.length * lines.size, getIndentFunction(newIndent), { line -> line.drop(minCommonIndent) })\r\n}\r\n\r\n\r\n/**\r\n * Prepends [indent] to every line of the original string.\r\n *\r\n * Doesn't preserve the original line endings.\r\n */\r\npublic fun String.prependIndent(indent: String = \"   \"): String =\r\n   lineSequence()\r\n   .map {\r\n   when {\r\n   it.isBlank() -> {\r\n   when {\r\n   it.length < indent.length -> indent\r\n   else -> it\r\n   }\r\n   }\r\n   else -> indent + it\r\n   }\r\n   }\r\n   .joinToString(\"\\n\")\r\n\r\n\r\nprivate fun String.indentWidth(): Int =

indexOfFirst { !it.isWhitespace() }.let { if (it == -1) length else it }\r\n\r\nprivate fun getIndentFunction(indent: String) = when {\r\n indent.isEmpty() -> { line: String -> line }\r\n else -> { line: String -> indent + line }\r\n}\r\n\r\nprivate inline fun List<String>.reindent(\r\n resultSizeEstimate: Int,\r\n indentAddFunction: (String) -> String,\r\n indentCutFunction: (String) -> String?\r\n): String {\r\n val lastIndex = lastIndex\r\n return mapIndexedNotNull { index, value ->\r\n if ((index == 0 || index == lastIndex) && value.isBlank())\r\n null\r\n else\r\n indentCutFunction(value)?.let(indentAddFunction) ?: value\r\n }\r\n .joinTo(StringBuilder(resultSizeEstimate), \"\\n\")\r\n .toString()\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.text\r\n\r\n/**\r\n * Represents a collection of captured groups in a single match of a regular expression.\r\n *\r\n * This collection has size of `groupCount + 1` where `groupCount` is the count of groups in the regular expression.\r\n * Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the entire match.\r\n *\r\n * An element of the collection at the particular index can be `null`,\r\n * if the corresponding group in the regular expression is optional and\r\n * there was no match captured by that group.\r\n */\r\npublic interface MatchGroupCollection : Collection<MatchGroup?> {\r\n\r\n /** Returns a group with the specified [index].\r\n *\r\n * @return An instance of [MatchGroup] if the group with the specified [index] was matched or `null` otherwise.\r\n *\r\n * Groups are indexed from 1 to the count of groups in the regular expression. A group with the index 0\r\n * corresponds to the entire match.\r\n */\r\n public operator fun get(index: Int): MatchGroup?\r\n}\r\n\r\n/**\r\n * Extends [MatchGroupCollection] by introducing a way to get matched groups by name, when regex supports it.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic interface MatchNamedGroupCollection : MatchGroupCollection {\r\n /**\r\n * Returns a named group with the specified [name].\r\n * @return An instance of [MatchGroup] if the group with the specified [name] was matched or `null` otherwise.\r\n * @throws IllegalArgumentException if there is no group with the specified [name] defined in the regex pattern.\r\n * @throws UnsupportedOperationException if getting named groups isn't supported on the current platform.\r\n */\r\n public operator fun get(name: String): MatchGroup?\r\n}\r\n\r\n/**\r\n * Represents the results from a single regular expression match.\r\n */\r\npublic interface MatchResult {\r\n /** The range of indices in the original string where match was captured. */\r\n public val range: IntRange\r\n /** The substring from the input string captured by this match. */\r\n public val value: String\r\n /**\r\n * A collection of groups matched by the regular expression.\r\n *\r\n * This collection has size of `groupCount + 1` where `groupCount` is the count of groups in the regular expression.\r\n * Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the entire match.\r\n */\r\n public val groups: MatchGroupCollection\r\n /**\r\n * A list of matched indexed group values.\r\n *\r\n * This list has size of `groupCount + 1` where `groupCount` is the count of groups in the regular expression.\r\n * Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the entire match.\r\n *\r\n * If the group in the regular expression is optional and there were no match captured by that group,\r\n * corresponding item in [groupValues] is an empty string.\r\n *\r\n * @sample samples.text.Regexps.matchDestructuringToGroupValues\r\n */\r\n public val groupValues: List<String>\r\n\r\n\r\n /**\r\n * An instance of [MatchResult.Destructured] wrapper providing components for destructuring assignment of group values.\r\n *\r\n * component1 corresponds to the value of the first group, component2 \u2014 of the second, and so on.\r\n *\r\n * @sample samples.text.Regexps.matchDestructuringToGroupValues\r\n */\r\n public val destructured: Destructured get() = Destructured(this)\r\n\r\n\r\n /** Returns a new [MatchResult] with the results for the next match, starting at the position\r\n * at which the last match ended (at the character after the last matched character).\r\n */\r\n public fun next(): MatchResult?\r\n\r\n\r\n /**\r\n * Provides components for destructuring assignment of group values.\r\n *\r\n * [component1] corresponds to the value of the first group, [component2] \u2014 of the second, and so on.\r\n *\r\n * If the group in the regular expression is optional and there were no match captured by that group,\r\n * corresponding component value is an empty string.\r\n *\r\n * @sample samples.text.Regexps.matchDestructuringToGroupValues\r\n */\r\n public class Destructured internal constructor(public val match: MatchResult) {\r\n @kotlin.internal.InlineOnly\r\n public operator inline fun

component1(): String = match.groupValues[1]\r\n @kotlin.internal.InlineOnly\r\n public operator inline fun component2(): String = match.groupValues[2]\r\n @kotlin.internal.InlineOnly\r\n public operator inline fun component3(): String = match.groupValues[3]\r\n @kotlin.internal.InlineOnly\r\n public operator inline fun component4(): String = match.groupValues[4]\r\n @kotlin.internal.InlineOnly\r\n public operator inline fun component5(): String = match.groupValues[5]\r\n @kotlin.internal.InlineOnly\r\n public operator inline fun component6(): String = match.groupValues[6]\r\n @kotlin.internal.InlineOnly\r\n public operator inline fun component7(): String = match.groupValues[7]\r\n @kotlin.internal.InlineOnly\r\n public operator inline fun component8(): String = match.groupValues[8]\r\n @kotlin.internal.InlineOnly\r\n public operator inline fun component9(): String = match.groupValues[9]\r\n @kotlin.internal.InlineOnly\r\n public operator inline fun component10(): String = match.groupValues[10]\r\n\r\n /**\r\n * Returns destructured group values as a list of strings.\r\n * First value in the returned list corresponds to the value of the first group, and so on.\r\n *\r\n * @sample samples.text.Regexps.matchDestructuringToGroupValues\r\n */\r\n public fun toList(): List<String> = match.groupValues.subList(1, match.groupValues.size)\r\n }\r\n}","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.text\r\n\r\n/**\r\n * Defines names for Unicode symbols used in proper Typography.\r\n */\r\npublic object Typography {\r\n /** The character " \u2013 quotation mark */\r\n public const val quote: Char = '\\u0022'\r\n /** The character $ \u2013 dollar sign */\r\n public const val dollar: Char = '\\u0024'\r\n /** The character & \u2013 ampersand */\r\n public const val amp: Char = '\\u0026'\r\n /** The character < \u2013 less-than sign */\r\n public const val less: Char = '\\u003C'\r\n /** The character > \u2013 greater-than sign */\r\n public const val greater: Char = '\\u003E'\r\n /** The non-breaking space character */\r\n public const val nbsp: Char = '\\u00A0'\r\n /** The character × */\r\n public const val times: Char = '\\u00D7'\r\n /** The character ¢ */\r\n public const val cent: Char = '\\u00A2'\r\n /** The character £ */\r\n public const val pound: Char = '\\u00A3'\r\n /** The character § */\r\n public const val section: Char = '\\u00A7'\r\n /** The character © */\r\n public const val copyright: Char = '\\u00A9'\r\n /** The character « */\r\n public const val leftGuillemete: Char = '\\u00AB'\r\n /** The character » */\r\n public const val rightGuillemete: Char = '\\u00BB'\r\n /** The character ® */\r\n public const val registered: Char = '\\u00AE'\r\n /** The character ° */\r\n public const val degree: Char = '\\u00B0'\r\n /** The character ± */\r\n public const val plusMinus: Char = '\\u00B1'\r\n /** The character ¶ */\r\n public const val paragraph: Char = '\\u00B6'\r\n /** The character · */\r\n public const val middleDot: Char = '\\u00B7'\r\n /** The character ½ */\r\n public const val half: Char = '\\u00BD'\r\n /** The character – */\r\n public const val ndash: Char = '\\u2013'\r\n /** The character — */\r\n public const val mdash: Char = '\\u2014'\r\n /** The character ‘ */\r\n public const val leftSingleQuote: Char = '\\u2018'\r\n /** The character ’ */\r\n public const val rightSingleQuote: Char = '\\u2019'\r\n /** The character ‚ */\r\n public const val lowSingleQuote: Char = '\\u201A'\r\n /** The character “ */\r\n public const val leftDoubleQuote: Char = '\\u201C'\r\n /** The character ” */\r\n public const val rightDoubleQuote: Char = '\\u201D'\r\n /** The character „ */\r\n public const val lowDoubleQuote: Char = '\\u201E'\r\n /** The character † */\r\n public const val dagger: Char = '\\u2020'\r\n /** The character ‡ */\r\n public const val doubleDagger: Char = '\\u2021'\r\n /** The character • */\r\n public const val bullet: Char = '\\u2022'\r\n /** The character … */\r\n public const val ellipsis: Char = '\\u2026'\r\n /** The character ′ */\r\n public const val prime: Char = '\\u2032'\r\n /** The character ″ */\r\n public const val doublePrime: Char = '\\u2033'\r\n /** The character € */\r\n public const val euro: Char = '\\u20AC'\r\n /** The character ™ */\r\n public const val tm: Char = '\\u2122'\r\n /** The character ≈ */\r\n public const val almostEqual: Char = '\\u2248'\r\n /** The character ≠ */\r\n public const val notEqual: Char = '\\u2260'\r\n /** The character ≤ */\r\n public const val lessOrEqual: Char = '\\u2264'\r\n /** The character ≥ */\r\n public const val greaterOrEqual: Char = '\\u2265'\r\n}","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n *

Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.time\r\n\r\n/**\r\n * A source of time for measuring time intervals.\r\n *\r\n * The only operation provided by the clock is [markNow]. It returns a [ClockMark], which can be used to query the elapsed time later.\r\n *\r\n * @see [measureTime]\r\n * @see [measureTimedValue]\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic interface Clock {\r\n /**\r\n * Marks a time point on this clock.\r\n *\r\n * The returned [ClockMark] instance encapsulates captured time point and allows querying\r\n * the duration of time interval [elapsed][ClockMark.elapsedNow] from that point.\r\n */\r\n public fun markNow(): ClockMark\r\n}\r\n\r\n/**\r\n * Represents a time point notched on a particular [Clock]. Remains bound to the clock it was taken from\r\n * and allows querying for the duration of time elapsed from that point (see the function [elapsedNow]).\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic abstract class ClockMark {\r\n /**\r\n * Returns the amount of time passed from this clock mark on the clock from which this mark was taken.\r\n *\r\n * Note that the value returned by this function can change on subsequent invocations.\r\n */\r\n public abstract fun elapsedNow(): Duration\r\n\r\n /**\r\n * Returns a clock mark on the same clock that is ahead of this clock mark by the specified [duration].\r\n *\r\n * The returned clock mark is more _late_ when the [duration] is positive, and more _early_ when the [duration] is negative.\r\n */\r\n public open operator fun plus(duration: Duration): ClockMark = AdjustedClockMark(this, duration)\r\n\r\n /**\r\n * Returns a clock mark on the same clock that is behind this clock mark by the specified [duration].\r\n *\r\n * The returned clock mark is more _early_ when the [duration] is positive, and more _late_ when the [duration] is negative.\r\n */\r\n public open operator fun minus(duration: Duration): ClockMark = plus(-duration)\r\n\r\n\r\n /**\r\n * Returns true if this clock mark has passed according to the clock from which this mark was taken.\r\n *\r\n * Note that the value returned by this function can change on subsequent invocations.\r\n * If the clock is monotonic, it can change only from `false` to `true`, namely, when the clock mark becomes behind the current point of the clock.\r\n */\r\n public fun hasPassedNow(): Boolean = !elapsedNow().isNegative()\r\n\r\n /**\r\n * Returns false if this clock mark has not passed according to the clock from which this mark was taken.\r\n *\r\n * Note that the value returned by this function can change on subsequent invocations.\r\n * If the clock is monotonic, it can change only from `true` to `false`, namely, when the clock mark becomes behind the current point of the clock.\r\n */\r\n public fun hasNotPassedNow(): Boolean = elapsedNow().isNegative()\r\n}\r\n\r\n\r\n\r\n@ExperimentalTime\r\n@SinceKotlin(\"1.3\")\r\n@kotlin.internal.InlineOnly\r\n@Deprecated(\"Subtracting one ClockMark from another is not a well defined operation because these clock marks could have been obtained from the different clocks.\", level = DeprecationLevel.ERROR)\r\npublic inline operator fun ClockMark.minus(other: ClockMark): Duration = throw Error(\"Operation is disallowed.\")\r\n\r\n\r\n@ExperimentalTime\r\n@SinceKotlin(\"1.3\")\r\n@kotlin.internal.InlineOnly\r\n@Deprecated(\"Comparing one ClockMark to another is not a well defined operation because these clock marks could have been obtained from the different clocks.\", level = DeprecationLevel.ERROR)\r\npublic inline operator fun ClockMark.compareTo(other: ClockMark): Int = throw Error(\"Operation is disallowed.\")\r\n\r\n\r\n\r\n@ExperimentalTime\r\nprivate class AdjustedClockMark(val mark: ClockMark, val adjustment: Duration) : ClockMark() {\r\n override fun elapsedNow(): Duration = mark.elapsedNow() - adjustment\r\n\r\n override fun plus(duration: Duration): ClockMark = AdjustedClockMark(mark, adjustment + duration)\r\n}","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.time\r\n\r\n/**\r\n * The most precise clock available in the platform.\r\n *\r\n * The clock returns its readings from a source of monotonic time when it is available in a target platform,\r\n * and resorts to a non-monotonic time source otherwise.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic expect object MonoClock : Clock\r\n\r\n/**\r\n * An abstract class used to implement clocks that return their readings as [Long] values in the specified [unit].\r\n *\r\n * @property unit The unit in which this clock readings are expressed.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic abstract class AbstractLongClock(protected val unit: DurationUnit) : Clock {\r\n /**\r\n * This protected method should be overridden to return the current reading of the clock expressed as a [Long] number\r\n * in the unit specified by

the [unit] property.\r\n */\r\n protected abstract fun read(): Long\r\n\r\n private class LongClockMark(private val startedAt: Long, private val clock: AbstractLongClock, private val offset: Duration) : ClockMark() {\r\n override fun elapsedNow(): Duration = (clock.read() - startedAt).toDuration(clock.unit) - offset\r\n override fun plus(duration: Duration): ClockMark = LongClockMark(startedAt, clock, offset + duration)\r\n }\r\n\r\n override fun markNow(): ClockMark = LongClockMark(read(), this, Duration.ZERO)\r\n}\r\n\r\n/**\r\n * An abstract class used to implement clocks that return their readings as [Double] values in the specified [unit].\r\n *\r\n * @property unit The unit in which this clock readings are expressed.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic abstract class AbstractDoubleClock(protected val unit: DurationUnit) : Clock {\r\n /**\r\n * This protected method should be overridden to return the current reading of the clock expressed as a [Double] number\r\n * in the unit specified by the [unit] property.\r\n */\r\n protected abstract fun read(): Double\r\n\r\n private class DoubleClockMark(private val startedAt: Double, private val clock: AbstractDoubleClock, private val offset: Duration) : ClockMark() {\r\n override fun elapsedNow(): Duration = (clock.read() - startedAt).toDuration(clock.unit) - offset\r\n override fun plus(duration: Duration): ClockMark = DoubleClockMark(startedAt, clock, offset + duration)\r\n }\r\n\r\n override fun markNow(): ClockMark = DoubleClockMark(read(), this, Duration.ZERO)\r\n}\r\n\r\n/**\r\n * A clock that has programmatically updatable readings. It is useful as a predictable source of time in tests.\r\n *\r\n * The current clock reading value can be advanced by the specified duration amount with the operator [plusAssign]:\r\n *\r\n * ```\r\n * val clock = TestClock()\r\n * clock += 10.seconds\r\n * ```\r\n *\r\n * Implementation note: the current clock reading value is stored as a [Long] number of nanoseconds,\r\n * thus it's capable to represent a time range of approximately \u00b1292 years.\r\n * Should the reading value overflow as the result of [plusAssign] operation, an [IllegalStateException] is thrown.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic class TestClock : AbstractLongClock(unit = DurationUnit.NANOSECONDS) {\r\n private var reading: Long = 0L\r\n\r\n override fun read(): Long = reading\r\n\r\n /**\r\n * Advances the current reading value of this clock by the specified [duration].\r\n *\r\n * [duration] value is rounded down towards zero when converting it to a [Long] number of nanoseconds.\r\n * For example, if the duration being added is `0.6.nanoseconds`, the clock reading won't advance because\r\n * the duration value will be rounded to zero nanoseconds.\r\n *\r\n * @throws IllegalStateException when the reading value overflows as the result of this operation.\r\n */\r\n public operator fun plusAssign(duration: Duration) {\r\n val delta = duration.toDouble(unit)\r\n val longDelta = delta.toLong()\r\n reading = if (longDelta != Long.MIN_VALUE && longDelta != Long.MAX_VALUE) {\r\n // when delta fits in long, add it as long\r\n val newReading = reading + longDelta\r\n if (reading xor longDelta >= 0 && reading xor newReading < 0) overflow(duration)\r\n newReading\r\n } else {\r\n // when delta is greater than long, add it as double\r\n val newReading = reading + delta\r\n if (newReading > Long.MAX_VALUE || newReading < Long.MIN_VALUE) overflow(duration)\r\n newReading.toLong()\r\n }\r\n }\r\n\r\n private fun overflow(duration: Duration) {\r\n throw IllegalStateException(\"TestClock will overflow if its reading ${reading}ns is advanced by $duration.\")\r\n }\r\n}\r\n\r\n/*\r\npublic interface WallClock {\r\n fun currentTimeMilliseconds(): Long\r\n\r\n companion object : WallClock, AbstractLongClock(unit = DurationUnit.MILLISECONDS) {\r\n override fun currentTimeMilliseconds(): Long = System.currentTimeMillis()\r\n override fun read(): Long = System.currentTimeMillis()\r\n override fun toString(): String = \"WallClock(System.currentTimeMillis())\"\r\n }\r\n}\r\n*/","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.time\r\n\r\nimport kotlin.math.abs\r\n\r\n@UseExperimental(ExperimentalTime::class)\r\nprivate inline val storageUnit get() = DurationUnit.NANOSECONDS\r\n\r\n/**\r\n * Represents the amount of time one instant of time is away from another instant.\r\n *\r\n * A negative duration is possible in a situation when the second instant is earlier than the first one.\r\n * An infinite duration value [Duration.INFINITE] can be used to represent infinite timeouts.\r\n *\r\n * To construct a duration use either the extension function [toDuration],\r\n * or the extension properties [hours], [minutes], [seconds], and so on,\r\n * available on [Int], [Long], and [Double] numeric types.\r\n *\r\n * To get the

value of this duration expressed in a particular [duration units][DurationUnit]\r\n * use the functions [toInt], [toLong], and [toDouble]\r\n * or the properties [inHours], [inMinutes], [inSeconds], [inNanoseconds], and so on.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\n@Suppress(\"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS\")\r\npublic inline class Duration internal constructor(internal val value: Double) : Comparable<Duration> {\r\n// TODO: backend fails on init block, wait for KT-28055\r\n\r\n// init {\r\n// require(_value.isNaN().not())\r\n// }\r\n\r\n companion object {\r\n /** The duration equal to exactly 0 seconds. */\r\n public val ZERO: Duration = Duration(0.0)\r\n\r\n /** The duration whose value is positive infinity. It is useful for representing timeouts that should never expire. */\r\n public val INFINITE: Duration = Duration(Double.POSITIVE_INFINITY)\r\n\r\n /** Converts the given time duration [value] expressed in the specified [sourceUnit] into the specified [targetUnit]. */\r\n public fun convert(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double =\r\n convertDurationUnit(value, sourceUnit, targetUnit)\r\n }\r\n\r\n // arithmetic operators\r\n\r\n /** Returns the negative of this value. */\r\n public operator fun unaryMinus(): Duration = Duration(-value)\r\n\r\n /** Returns a duration whose value is the sum of this and [other] duration values. */\r\n public operator fun plus(other: Duration): Duration = Duration(value + other.value)\r\n\r\n /** Returns a duration whose value is the difference between this and [other] duration values. */\r\n public operator fun minus(other: Duration): Duration = Duration(value - other.value)\r\n\r\n /** Returns a duration whose value is this duration value multiplied by the given [scale] number. */\r\n public operator fun times(scale: Int): Duration = Duration(value * scale)\r\n\r\n /** Returns a duration whose value is this duration value multiplied by the given [scale] number. */\r\n public operator fun times(scale: Double): Duration = Duration(value * scale)\r\n\r\n /** Returns a duration whose value is this duration value divided by the given [scale] number. */\r\n public operator fun div(scale: Int): Duration = Duration(value / scale)\r\n\r\n /** Returns a duration whose value is this duration value divided by the given [scale] number. */\r\n public operator fun div(scale: Double): Duration = Duration(value / scale)\r\n\r\n /** Returns a number that is the ratio of [this] and [other] duration values. */\r\n public operator fun div(other: Duration): Double = this.value / other.value\r\n\r\n /** Returns true, if the duration value is less than zero. */\r\n public fun isNegative(): Boolean = value < 0\r\n\r\n /** Returns true, if the duration value is greater than zero. */\r\n public fun isPositive(): Boolean = value > 0\r\n\r\n /** Returns true, if the duration value is infinite. */\r\n public fun isInfinite(): Boolean = value.isInfinite()\r\n\r\n /** Returns true, if the duration value is finite. */\r\n public fun isFinite(): Boolean = value.isFinite()\r\n\r\n /** Returns the absolute value of this value. The returned value is always non-negative. */\r\n public val absoluteValue: Duration get() = if (isNegative()) -this else this\r\n\r\n override fun compareTo(other: Duration): Int = this.value.compareTo(other.value)\r\n\r\n\r\n // splitting to components\r\n\r\n /**\r\n * Splits this duration into days, hours, minutes, seconds, and nanoseconds and executes the given [action] with these components.\r\n * The result of [action] is returned as the result of this function.\r\n *\r\n * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\r\n * - `seconds` represents the whole number of seconds in this duration, and its absolute value is less than 60;\r\n * - `minutes` represents the whole number of minutes in this duration, and its absolute value is less than 60;\r\n * - `hours` represents the whole number of hours in this duration, and its absolute value is less than 24;\r\n * - `days` represents the whole number of days in this duration.\r\n * If the value doesn't fit in [Int] range, i.e. it's greater than [Int.MAX_VALUE] or less than [Int.MIN_VALUE],\r\n * it is coerced into that range.\r\n */\r\n public inline fun <T> toComponents(action: (days: Int, hours: Int, minutes: Int, seconds: Int, nanoseconds: Int) -> T): T =\r\n action(inDays.toInt(), hoursComponent, minutesComponent, secondsComponent, nanosecondsComponent)\r\n\r\n /**\r\n * Splits this duration into hours, minutes, seconds, and nanoseconds and executes the given [action] with these components.\r\n * The result of [action] is returned as the result of this function.\r\n *\r\n * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\r\n * - `seconds` represents the whole number of seconds in this duration, and its absolute value is less than 60;\r\n * - `minutes` represents the whole number of minutes in this duration, and its absolute value is less than 60;\r\n * - `hours` represents the whole number of

hours in this duration.\r\n * If the value doesn't fit in [Int] range, i.e. it's greater than [Int.MAX_VALUE] or less than [Int.MIN_VALUE],\r\n * it is coerced into that range.\r\n */\r\n public inline fun <T> toComponents(action: (hours: Int, minutes: Int, seconds: Int, nanoseconds: Int) -> T): T =\r\n action(inHours.toInt(), minutesComponent, secondsComponent, nanosecondsComponent)\r\n\r\n /**\r\n * Splits this duration into minutes, seconds, and nanoseconds and executes the given [action] with these components.\r\n * The result of [action] is returned as the result of this function.\r\n *\r\n * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\r\n * - `seconds` represents the whole number of seconds in this duration, and its absolute value is less than 60;\r\n * - `minutes` represents the whole number of minutes in this duration.\r\n * If the value doesn't fit in [Int] range, i.e. it's greater than [Int.MAX_VALUE] or less than [Int.MIN_VALUE],\r\n * it is coerced into that range.\r\n */\r\n public inline fun <T> toComponents(action: (minutes: Int, seconds: Int, nanoseconds: Int) -> T): T =\r\n action(inMinutes.toInt(), secondsComponent, nanosecondsComponent)\r\n\r\n /**\r\n * Splits this duration into seconds, and nanoseconds and executes the given [action] with these components.\r\n * The result of [action] is returned as the result of this function.\r\n *\r\n * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\r\n * - `seconds` represents the whole number of seconds in this duration.\r\n * If the value doesn't fit in [Long] range, i.e. it's greater than [Long.MAX_VALUE] or less than [Long.MIN_VALUE],\r\n * it is coerced into that range.\r\n */\r\n public inline fun <T> toComponents(action: (seconds: Long, nanoseconds: Int) -> T): T =\r\n action(inSeconds.toLong(), nanosecondsComponent)\r\n\r\n @PublishedApi\r\n internal val hoursComponent: Int get() = (inHours % 24).toInt()\r\n @PublishedApi\r\n internal val minutesComponent: Int get() = (inMinutes % 60).toInt()\r\n @PublishedApi\r\n internal val secondsComponent: Int get() = (inSeconds % 60).toInt()\r\n @PublishedApi\r\n internal val nanosecondsComponent: Int get() = (inNanoseconds % 1e9).toInt()\r\n\r\n\r\n // conversion to units\r\n\r\n /** Returns the value of this duration expressed as a [Double] number of the specified [unit]. */\r\n public fun toDouble(unit: DurationUnit): Double = convertDurationUnit(value, storageUnit, unit)\r\n\r\n /**\r\n * Returns the value of this duration expressed as a [Long] number of the specified [unit].\r\n *\r\n * If the value doesn't fit in the range of [Long] type, it is coerced into that range, see the conversion [Double.toLong] for details.\r\n */\r\n public fun toLong(unit: DurationUnit): Long = toDouble(unit).toLong()\r\n\r\n /**\r\n * Returns the value of this duration expressed as an [Int] number of the specified [unit].\r\n *\r\n * If the value doesn't fit in the range of [Int] type, it is coerced into that range, see the conversion [Double.toInt] for details.\r\n */\r\n public fun toInt(unit: DurationUnit): Int = toDouble(unit).toInt()\r\n\r\n /** The value of this duration expressed as a [Double] number of days. */\r\n public val inDays: Double get() = toDouble(DurationUnit.DAYS)\r\n\r\n /** The value of this duration expressed as a [Double] number of hours. */\r\n public val inHours: Double get() = toDouble(DurationUnit.HOURS)\r\n\r\n /** The value of this duration expressed as a [Double] number of minutes. */\r\n public val inMinutes: Double get() = toDouble(DurationUnit.MINUTES)\r\n\r\n /** The value of this duration expressed as a [Double] number of seconds. */\r\n public val inSeconds: Double get() = toDouble(DurationUnit.SECONDS)\r\n\r\n /** The value of this duration expressed as a [Double] number of milliseconds. */\r\n public val inMilliseconds: Double get() = toDouble(DurationUnit.MILLISECONDS)\r\n\r\n /** The value of this duration expressed as a [Double] number of microseconds. */\r\n public val inMicroseconds: Double get() = toDouble(DurationUnit.MICROSECONDS)\r\n\r\n /** The value of this duration expressed as a [Double] number of nanoseconds. */\r\n public val inNanoseconds: Double get() = toDouble(DurationUnit.NANOSECONDS)\r\n\r\n // shortcuts\r\n\r\n /**\r\n * Returns the value of this duration expressed as a [Long] number of nanoseconds.\r\n *\r\n * If the value doesn't fit in the range of [Long] type, it is coerced into that range, see the conversion [Double.toLong] for details.\r\n *\r\n * The range of durations that can be expressed as a `Long` number of nanoseconds is approximately \u00c2\u00b1292 years.\r\n */\r\n public fun toLongNanoseconds(): Long = toLong(DurationUnit.NANOSECONDS)\r\n\r\n /**\r\n * Returns the value of this duration expressed as a [Long] number of milliseconds.\r\n *\r\n * The value is coerced to the range of [Long] type, if it doesn't fit in that range, see the conversion [Double.toLong] for details.\r\n

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 *\r\n     * The range of durations that can be expressed as a `Long` number of milliseconds is approximately \u00c2\u00b1292 million years.\r\n     */\r\n    public fun toLongMilliseconds(): Long = toLong(DurationUnit.MILLISECONDS)\r\n\r\n    /**\r\n     * Returns a string representation of this duration value expressed in the unit which yields the most compact and readable number value.\r\n     *\r\n     * Special cases:\r\n     *  - zero duration is formatted as `\"0s\"`\r\n     *  - the infinite duration is formatted as `\"Infinity\"` without unit\r\n     *  - very small durations (less than 1e-15 s) are expressed in seconds and formatted in scientific notation\r\n     *  - very big durations (more than 1e+7 days) are expressed in days and formatted in scientific notation\r\n     *\r\n     * @return the value of duration in the automatically determined unit followed by that unit abbreviated name: `d`, `h`, `m`, `s`, `ms`, `us`, or `ns`.\r\n     *\r\n     * @sample samples.time.Durations.toStringDefault\r\n     */\r\n    override fun toString(): String = when {\r\n        isInfinite() -> value.toString()\r\n        value == 0.0 -> \"0s\"\r\n        else -> {\r\n            val absNs = absoluteValue.inNanoseconds\r\n            var scientific = false\r\n            var maxDecimals = 0\r\n            val unit = when {\r\n                absNs < 1e-6 -> DurationUnit.SECONDS.also { scientific = true }\r\n                absNs < 1 -> DurationUnit.NANOSECONDS.also { maxDecimals = 7 }\r\n                absNs < 1e3 -> DurationUnit.NANOSECONDS\r\n                absNs < 1e6 -> DurationUnit.MICROSECONDS\r\n                absNs < 1e9 -> DurationUnit.MILLISECONDS\r\n                absNs < 1000e9 -> DurationUnit.SECONDS\r\n                absNs < 60_000e9 -> DurationUnit.MINUTES\r\n                absNs < 3600_000e9 -> DurationUnit.HOURS\r\n                absNs < 86400e9 * 1e7 -> DurationUnit.DAYS\r\n                else -> DurationUnit.DAYS.also { scientific = true }\r\n            }\r\n            val value = toDouble(unit)\r\n            when {\r\n                scientific -> formatScientific(value)\r\n                maxDecimals > 0 -> formatUpToDecimals(value, maxDecimals)\r\n                else -> formatToExactDecimals(value, precision(abs(value)))\r\n            } + unit.shortName()\r\n        }\r\n    }\r\n\r\n    private fun precision(value: Double): Int = when {\r\n        value < 1 -> 3\r\n        value < 10 -> 2\r\n        value < 100 -> 1\r\n        else -> 0\r\n    }\r\n\r\n    /**\r\n     * Returns a string representation of this duration value expressed in the given [unit]\r\n     * and formatted with the specified [decimals] number of digits after decimal point.\r\n     *\r\n     * Special cases:\r\n     *  - the infinite duration is formatted as `\"Infinity\"` without unit\r\n     *\r\n     * @return the value of duration in the specified [unit] followed by that unit abbreviated name: `d`, `h`, `m`, `s`, `ms`, `us`, or `ns`.\r\n     *\r\n     * @throws IllegalArgumentException if [decimals] is less than zero.\r\n     *\r\n     * @sample samples.time.Durations.toStringDecimals\r\n     */\r\n    public fun toString(unit: DurationUnit, decimals: Int = 0): String {\r\n        require(decimals >= 0) { \"decimals must be not negative, but was $decimals\" }\r\n        if (isInfinite()) return value.toString()\r\n        val number = toDouble(unit)\r\n        return when {\r\n            abs(number) < 1e14 -> formatToExactDecimals(number, decimals.coerceAtMost(12))\r\n            else -> formatScientific(number)\r\n        } + unit.shortName()\r\n    }\r\n\r\n\r\n\r\n    /**\r\n     * Returns an ISO-8601 based string representation of this duration.\r\n     *\r\n     * The returned value is presented in the format `PThHmMs.fS`, where `h`, `m`, `s` are the integer components of this duration (see [toComponents])\r\n     * and `f` is a fractional part of second. Depending on the roundness of the value the fractional part can be formatted with either\r\n     * 0, 3, 6, or 9 decimal digits.\r\n     *\r\n     * If the hours component absolute value of this duration is greater than [Int.MAX_VAlUE], it is replaced with [Int.MAX_VALUE],\r\n     * so the infinite duration is formatted as `\"PT2147483647H\".\r\n     *\r\n     * Negative durations are indicated with the sign `-` in the beginning of the returned string, for example, `\"-PT5M30S\"`.\r\n     *\r\n     * @sample samples.time.Durations.toIsoString\r\n     */\r\n    public fun toIsoString(): String = buildString {\r\n        if (isNegative()) append('-')\r\n        append(\"PT\")\r\n        absoluteValue.toComponents { hours, minutes, seconds, nanoseconds ->\r\n            val hasHours = hours != 0\r\n            val hasSeconds = seconds != 0 || nanoseconds != 0\r\n            val hasMinutes = minutes != 0 || (hasSeconds && hasHours)\r\n            if (hasHours) {\r\n                append(hours).append('H')\r\n            }\r\n            if (hasMinutes) {\r\n                append(minutes).append('M')\r\n            }\r\n            if (hasSeconds || (!hasHours && !hasMinutes)) {\r\n                append(seconds)\r\n                if (nanoseconds != 0) {\r\n                    append('.')\r\n                    val nss = nanoseconds.toString().padStart(9, '0')\r\n                    when {\r\n                        nanoseconds % 1_000_000 == 0 -> append(nss, 0, 3)\r\n                        nanoseconds % 1_000 == 0 -> append(nss, 0, 6)\r\n                        else -> append(nss)\r\n                    }\r\n                }\r\n                append('S')\r\n            }\r\n        }\r\n    }\r\n\r\n\r\n}\r\n\r\n// constructing from number of units\r\n// extension functions\r\n\r\n\r\n/** Returns a
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[Duration] equal to this [Int] number of the specified [unit].
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic fun Int.toDuration(unit: DurationUnit): Duration = toDouble().toDuration(unit)\r\n\r\n/** Returns a [Duration] equal to this [Long] number of the specified [unit].
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic fun Long.toDuration(unit: DurationUnit): Duration = toDouble().toDuration(unit)\r\n\r\n/** Returns a [Duration] equal to this [Double] number of the specified [unit].
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic fun Double.toDuration(unit: DurationUnit): Duration = Duration(convertDurationUnit(this, unit, storageUnit))\r\n\r\n// constructing from number of units\r\n// extension properties\r\n\r\n/** Returns a [Duration] equal to this [Int] number of nanoseconds.
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Int.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\r\n\r\n/** Returns a [Duration] equal to this [Long] number of nanoseconds. */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Long.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\r\n\r\n/** Returns a [Duration] equal to this [Double] number of nanoseconds. */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Double.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\r\n\r\n/** Returns a [Duration] equal to this [Int] number of microseconds. */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Int.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\r\n\r\n/** Returns a [Duration] equal to this [Long] number of microseconds. */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Long.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\r\n\r\n/** Returns a [Duration] equal to this [Double] number of microseconds. */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Double.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\r\n\r\n/** Returns a [Duration] equal to this [Int] number of milliseconds. */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Int.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\r\n\r\n/** Returns a [Duration] equal to this [Long] number of milliseconds. */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Long.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\r\n\r\n/** Returns a [Duration] equal to this [Double] number of milliseconds. */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Double.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\r\n\r\n/** Returns a [Duration] equal to this [Int] number of seconds.
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Int.seconds get() = toDuration(DurationUnit.SECONDS)\r\n\r\n/** Returns a [Duration] equal to this [Long] number of seconds.
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Long.seconds get() = toDuration(DurationUnit.SECONDS)\r\n\r\n/** Returns a [Duration] equal to this [Double] number of seconds.
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Double.seconds get() = toDuration(DurationUnit.SECONDS)\r\n\r\n/** Returns a [Duration] equal to this [Int] number of minutes.
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Int.minutes get() = toDuration(DurationUnit.MINUTES)\r\n\r\n/** Returns a [Duration] equal to this [Long] number of minutes.
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Long.minutes get() = toDuration(DurationUnit.MINUTES)\r\n\r\n/** Returns a [Duration] equal to this [Double] number of minutes.
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Double.minutes get() = toDuration(DurationUnit.MINUTES)\r\n\r\n/** Returns a [Duration] equal to this [Int] number of hours.
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Int.hours get() = toDuration(DurationUnit.HOURS)\r\n\r\n/** Returns a [Duration] equal to this [Long] number of hours.
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Long.hours get() = toDuration(DurationUnit.HOURS)\r\n\r\n/** Returns a [Duration] equal to this [Double] number of hours.
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Double.hours get() = toDuration(DurationUnit.HOURS)\r\n\r\n/** Returns a [Duration] equal to this [Int] number of days.
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Int.days get() = toDuration(DurationUnit.DAYS)\r\n\r\n/** Returns a [Duration] equal to this [Long] number of days.
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Long.days get() = toDuration(DurationUnit.DAYS)\r\n\r\n/** Returns a [Duration] equal to this [Double] number of days.

*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic val Double.days get() = toDuration(DurationUnit.DAYS)\r\n\r\n\r\n/** Returns a duration whose value is the specified [duration] value multiplied by this number.
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun Int.times(duration: Duration): Duration = duration * this\r\n\r\n/** Returns a duration whose value is the specified [duration] value multiplied by this number.
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun Double.times(duration: Duration): Duration = duration * this\r\n\r\n\r\ninternal expect fun formatToExactDecimals(value: Double, decimals: Int): String\r\ninternal expect fun formatUpToDecimals(value: Double, decimals: Int): String\r\ninternal expect fun formatScientific(value: Double): String","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\n@file:kotlin.jvm.JvmMultifileClass()\r\n@file:kotlin.jvm.JvmName(\"DurationUnitKt\")\r\n\r\npackage kotlin.time\r\n\r\n\r\n/**\r\n * The list of possible time measurement units, in which a duration can be expressed.\r\n *\r\n * The smallest time unit is [NANOSECONDS] and the largest is [DAYS], which corresponds to exactly 24 [HOURS].\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic expect enum class DurationUnit {\r\n /**\r\n * Time unit representing one nanosecond, which is 1/1000 of a microsecond.\r\n */\r\n NANOSECONDS,\r\n /**\r\n * Time unit representing one microsecond, which is 1/1000 of a millisecond.\r\n */\r\n MICROSECONDS,\r\n /**\r\n * Time unit representing one millisecond, which is 1/1000 of a second.\r\n */\r\n MILLISECONDS,\r\n /**\r\n * Time unit representing one second.\r\n */\r\n SECONDS,\r\n /**\r\n * Time unit representing one minute.\r\n */\r\n MINUTES,\r\n /**\r\n * Time unit representing one hour.\r\n */\r\n HOURS,\r\n /**\r\n * Time unit representing one day, which is always equal to 24 hours.\r\n */\r\n DAYS;\r\n}\r\n\r\n/** Converts the given time duration [value] expressed in the specified [sourceUnit] into the specified [targetUnit].
/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\ninternal expect fun convertDurationUnit(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double\r\n\r\n\r\n\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\ninternal fun DurationUnit.shortName(): String = when (this) {\r\n DurationUnit.NANOSECONDS -> \"ns\"\r\n DurationUnit.MICROSECONDS -> \"us\"\r\n DurationUnit.MILLISECONDS -> \"ms\"\r\n DurationUnit.SECONDS -> \"s\"\r\n DurationUnit.MINUTES -> \"m\"\r\n DurationUnit.HOURS -> \"h\"\r\n DurationUnit.DAYS -> \"d\"\r\n}","/\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.time\r\n\r\nimport kotlin.annotation.AnnotationTarget.*\r\n\r\n/**\r\n * This annotation marks the experimental preview of the standard library API for measuring time and working with durations.\r\n *\r\n * > Note that this API is in a preview state and has a very high chance of being changed in the future.\r\n * Do not use it if you develop a library since your library will become binary incompatible\r\n * with the future versions of the standard library.\r\n *\r\n * Any usage of a declaration annotated with `@ExperimentalTime` must be accepted either by\r\n * annotating that usage with the [UseExperimental] annotation, e.g. `@UseExperimental(ExperimentalTime::class)`,\r\n * or by using the compiler argument `-Xuse-experimental=kotlin.time.ExperimentalTime`.\r\n */\r\n@Experimental(level = Experimental.Level.ERROR)\r\n@Retention(AnnotationRetention.BINARY)\r\n@Target(\r\n CLASS,\r\n ANNOTATION_CLASS,\r\n PROPERTY,\r\n FIELD,\r\n LOCAL_VARIABLE,\r\n VALUE_PARAMETER,\r\n CONSTRUCTOR,\r\n FUNCTION,\r\n PROPERTY_GETTER,\r\n PROPERTY_SETTER,\r\n TYPEALIAS\r\n)\r\n@SinceKotlin(\"1.3\")\r\npublic annotation class ExperimentalTime","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\npackage kotlin.time\r\n\r\nimport kotlin.contracts.*\r\n\r\n/**\r\n * Executes the given function [block] and returns the duration of elapsed time interval.\r\n *\r\n * The elapsed time is measured with [MonoClock].\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic inline fun

measureTime(block: () -> Unit): Duration {\r\n contract {\r\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\r\n }\r\n return MonoClock.measureTime(block)\r\n}\r\n\r\n\r\n/**\r\n * Executes the given function [block] and returns the duration of elapsed time interval.\r\n *\r\n * The elapsed time is measured with the specified `this` [Clock] instance.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic inline fun Clock.measureTime(block: () -> Unit): Duration {\r\n contract {\r\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\r\n }\r\n\r\n val mark = markNow()\r\n block()\r\n return mark.elapsedNow()\r\n}\r\n\r\n\r\n/**\r\n * Data class representing a result of executing an action, along with the duration of elapsed time interval.\r\n *\r\n * @property value the result of the action.\r\n * @property duration the time elapsed to execute the action.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic data class TimedValue<T>(val value: T, val duration: Duration)\r\n\r\n\r\n/**\r\n * Executes the given function [block] and returns an instance of [TimedValue] class, containing both\r\n * the result of the function execution and the duration of elapsed time interval.\r\n *\r\n * The elapsed time is measured with [MonoClock].\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic inline fun <T> measureTimedValue(block: () -> T): TimedValue<T> {\r\n contract {\r\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\r\n }\r\n\r\n return MonoClock.measureTimedValue(block)\r\n}\r\n\r\n\r\n/**\r\n * Executes the given [block] and returns an instance of [TimedValue] class, containing both\r\n * the result of function execution and the duration of elapsed time interval.\r\n *\r\n * The elapsed time is measured with the specified `this` [Clock] instance.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalTime\r\npublic inline fun <T> Clock.measureTimedValue(block: () -> T): TimedValue<T> {\r\n contract {\r\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\r\n }\r\n\r\n val mark = markNow()\r\n val result = block()\r\n return TimedValue(result, mark.elapsedNow())\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin\r\n\r\nimport kotlin.internal.InlineOnly\r\n\r\n\r\n/**\r\n * Returns a hash code value for the object or zero if the object is `null`.\r\n *\r\n * @see Any.hashCode\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@InlineOnly\r\npublic inline fun Any?.hashCode(): Int = this?.hashCode() ?: 0\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin\r\n\r\n/**\r\n * Represents a version of the Kotlin standard library.\r\n *\r\n * [major], [minor] and [patch] are integer components of a version,\r\n * they must be non-negative and not greater than 255 ([MAX_COMPONENT_VALUE]).\r\n *\r\n * @constructor Creates a version from all three components.\r\n */\r\n@SinceKotlin(\"1.1\")\r\npublic class KotlinVersion(val major: Int, val minor: Int, val patch: Int) : Comparable<KotlinVersion> {\r\n /**\r\n * Creates a version from [major] and [minor] components, leaving [patch] component zero.\r\n */\r\n public constructor(major: Int, minor: Int) : this(major, minor, 0)\r\n\r\n private val version = versionOf(major, minor, patch)\r\n\r\n private fun versionOf(major: Int, minor: Int, patch: Int): Int {\r\n require(major in 0..MAX_COMPONENT_VALUE && minor in 0..MAX_COMPONENT_VALUE && patch in 0..MAX_COMPONENT_VALUE) {\r\n \"Version components are out of range: $major.$minor.$patch\"\r\n }\r\n return major.shl(16) + minor.shl(8) + patch\r\n }\r\n\r\n /**\r\n * Returns the string representation of this version\r\n */\r\n override fun toString(): String = \"$major.$minor.$patch\"\r\n\r\n override fun equals(other: Any?): Boolean {\r\n if (this === other) return true\r\n val otherVersion = (other as? KotlinVersion) ?: return false\r\n return this.version == otherVersion.version\r\n }\r\n\r\n override fun hashCode(): Int = version\r\n\r\n override fun compareTo(other: KotlinVersion): Int = version - other.version\r\n\r\n /**\r\n * Returns `true` if this version is not less than the version specified\r\n * with the provided [major] and [minor] components.\r\n */\r\n public fun isAtLeast(major: Int, minor: Int): Boolean = // this.version >= versionOf(major, minor, 0)\r\n this.major > major || (this.major == major &&\r\n this.minor >= minor)\r\n\r\n /**\r\n * Returns `true` if this version is not less than the version specified\r\n * with the provided [major], [minor] and [patch] components.\r\n */\r\n public fun isAtLeast(major: Int, minor: Int, patch: Int): Boolean = // this.version >= versionOf(major,

minor, patch)\r\n this.major > major || (this.major == major &&\r\n (this.minor > minor || this.minor == minor &&\r\n this.patch >= patch))\r\n\r\n companion object {\r\n /**\r\n * Maximum value a version component can have, a constant value 255.\r\n */\r\n // NOTE: Must be placed before CURRENT because its initialization requires this field being initialized in JS\r\n public const val MAX_COMPONENT_VALUE = 255\r\n\r\n /**\r\n * Returns the current version of the Kotlin standard library.\r\n */\r\n @kotlin.jvm.JvmField\r\n public val CURRENT: KotlinVersion = KotlinVersion(1, 3, 50) // value is written here automatically during build\r\n }\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\n@file:kotlin.jvm.JvmName(\"LateinitKt\")\r\n@file:Suppress(\"unused\")\r\n\r\n\r\npackage kotlin\r\n\r\nimport kotlin.internal.InlineOnly\r\nimport kotlin.internal.AccessibleLateinitPropertyLiteral\r\nimport kotlin.reflect.KProperty0\r\n\r\n\r\n/**\r\n * Returns `true` if this lateinit property has been assigned a value, and `false` otherwise.\r\n *\r\n * Cannot be used in an inline function, to avoid binary compatibility issues.\r\n */\r\n@SinceKotlin(\"1.2\")\r\n@InlineOnly\r\ninline val @receiver:AccessibleLateinitPropertyLiteral KProperty0<*>.isInitialized: Boolean\r\n get() = throw NotImplementedError(\"Implementation is intrinsic\")\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n\r\n@file:kotlin.jvm.JvmName(\"LazyKt\")\r\n@file:kotlin.jvm.JvmMultifileClass\r\n\r\n\r\npackage kotlin\r\n\r\nimport kotlin.reflect.KProperty\r\n\r\n\r\n/**\r\n * Represents a value with lazy initialization.\r\n *\r\n * To create an instance of [Lazy] use the [lazy] function.\r\n */\r\npublic interface Lazy<out T> {\r\n /**\r\n * Gets the lazily initialized value of the current Lazy instance.\r\n * Once the value was initialized it must not change during the rest of lifetime of this Lazy instance.\r\n */\r\n public val value: T\r\n\r\n\r\n /**\r\n * Returns `true` if a value for this Lazy instance has been already initialized, and `false` otherwise.\r\n * Once this function has returned `true` it stays `true` for the rest of lifetime of this Lazy instance.\r\n */\r\n public fun isInitialized(): Boolean\r\n}\r\n\r\n\r\n/**\r\n * Creates a new instance of the [Lazy] that is already initialized with the specified [value].\r\n */\r\npublic fun <T> lazyOf(value: T): Lazy<T> = InitializedLazyImpl(value)\r\n\r\n\r\n/**\r\n * An extension to delegate a read-only property of type [T] to an instance of [Lazy].\r\n *\r\n * This extension allows to use instances of Lazy for property delegation:\r\n * `val property: String by lazy { initializer }`\r\n */\r\n@kotlin.internal.InlineOnly\r\npublic inline operator fun <T> Lazy<T>.getValue(thisRef: Any?, property: KProperty<*>): T = value\r\n\r\n\r\n/**\r\n * Specifies how a [Lazy] instance synchronizes initialization among multiple threads.\r\n */\r\npublic enum class LazyThreadSafetyMode {\r\n\r\n /**\r\n * Locks are used to ensure that only a single thread can initialize the [Lazy] instance.\r\n */\r\n SYNCHRONIZED,\r\n\r\n /**\r\n * Initializer function can be called several times on concurrent access to uninitialized [Lazy] instance value,\r\n * but only the first returned value will be used as the value of [Lazy] instance.\r\n */\r\n PUBLICATION,\r\n\r\n /**\r\n * No locks are used to synchronize an access to the [Lazy] instance value; if the instance is accessed from multiple threads, its behavior is undefined.\r\n *\r\n * This mode should not be used unless the [Lazy] instance is guaranteed never to be initialized from more than one thread.\r\n */\r\n NONE,\r\n}\r\n\r\n\r\n\r\n\r\ninternal object UNINITIALIZED_VALUE\r\n\r\n\r\n// internal to be called from lazy in JS\r\ninternal class UnsafeLazyImpl<out T>(initializer: () -> T) : Lazy<T>, Serializable {\r\n private var initializer: (() -> T)? = initializer\r\n private var _value: Any? = UNINITIALIZED_VALUE\r\n\r\n\r\n override val value: T\r\n get() {\r\n if (_value === UNINITIALIZED_VALUE) {\r\n _value = initializer!!()\r\n initializer = null\r\n }\r\n @Suppress(\"UNCHECKED_CAST\")\r\n return _value as T\r\n }\r\n\r\n\r\n override fun isInitialized(): Boolean = _value !== UNINITIALIZED_VALUE\r\n\r\n\r\n override fun toString(): String = if (isInitialized()) value.toString() else \"Lazy value not initialized yet.\"\r\n\r\n\r\n private fun writeReplace(): Any = InitializedLazyImpl(value)\r\n}\r\n\r\n\r\ninternal class InitializedLazyImpl<out T>(override val value: T) : Lazy<T>, Serializable {\r\n\r\n\r\n override fun isInitialized(): Boolean = true\r\n\r\n\r\n override fun toString(): String = value.toString()\r\n\r\n\r\n}\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the

license/LICENSE.txt file.\r\n
*/\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"NumbersKt\")\r\npackage kotlin\r\n\r\n/**\r\n * Counts the number of set bits in the binary representation of this [Int] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic expect fun Int.countOneBits(): Int\r\n\r\n/**\r\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Int] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic expect fun Int.countLeadingZeroBits(): Int\r\n\r\n/**\r\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Int] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic expect fun Int.countTrailingZeroBits(): Int\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the most significant set bit of this [Int] number,\r\n * or zero, if this number is zero.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic expect fun Int.takeHighestOneBit(): Int\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the least significant set bit of this [Int] number,\r\n * or zero, if this number is zero.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic expect fun Int.takeLowestOneBit(): Int\r\n\r\n/**\r\n * Rotates the binary representation of this [Int] number left by the specified [bitCount] number of bits.\r\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\r\n *\r\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\r\n * `number.rotateLeft(-n) == number.rotateRight(n)`\r\n *\r\n * Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally\r\n * `number.rotateLeft(n) == number.rotateLeft(n % 32)`\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic expect fun Int.rotateLeft(bitCount: Int): Int\r\n\r\n/**\r\n * Rotates the binary representation of this [Int] number right by the specified [bitCount] number of bits.\r\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\r\n *\r\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\r\n * `number.rotateRight(-n) == number.rotateLeft(n)`\r\n *\r\n * Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally\r\n * `number.rotateRight(n) == number.rotateRight(n % 32)`\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic expect fun Int.rotateRight(bitCount: Int): Int\r\n\r\n/**\r\n * Counts the number of set bits in the binary representation of this [Long] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic expect fun Long.countOneBits(): Int\r\n\r\n/**\r\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Long] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic expect fun Long.countLeadingZeroBits(): Int\r\n\r\n/**\r\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Long] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic expect fun Long.countTrailingZeroBits(): Int\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the most significant set bit of this [Long] number,\r\n * or zero, if this number is zero.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic expect fun Long.takeHighestOneBit(): Long\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the least significant set bit of this [Long] number,\r\n * or zero, if this number is zero.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic expect fun Long.takeLowestOneBit(): Long\r\n\r\n/**\r\n * Rotates the binary representation of this [Long] number left by the specified [bitCount] number of bits.\r\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\r\n *\r\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\r\n * `number.rotateLeft(-n) == number.rotateRight(n)`\r\n *\r\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally\r\n * `number.rotateLeft(n) == number.rotateLeft(n % 64)`\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic expect fun Long.rotateLeft(bitCount: Int): Long\r\n\r\n/**\r\n * Rotates the binary representation of this [Long] number right by the specified [bitCount] number of bits.\r\n * The least significant bits pushed out from the right side reenter the

number as the most significant bits on the left side.\r\n *\r\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\r\n * `number.rotateRight(-n) == number.rotateLeft(n)`\r\n *\r\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally\r\n * `number.rotateRight(n) == number.rotateRight(n % 64)`\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic expect fun Long.rotateRight(bitCount: Int): Long\r\n\r\n/**\r\n * Counts the number of set bits in the binary representation of this [Byte] number.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Byte.countOneBits(): Int = (toInt() and 0xFF).countOneBits()\r\n\r\n/**\r\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Byte] number.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Byte.countLeadingZeroBits(): Int = (toInt() and 0xFF).countLeadingZeroBits() - (Int.SIZE_BITS - Byte.SIZE_BITS)\r\n\r\n/**\r\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Byte] number.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Byte.countTrailingZeroBits(): Int = (toInt() or 0x100).countTrailingZeroBits()\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the most significant set bit of this [Byte] number,\r\n * or zero, if this number is zero.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Byte.takeHighestOneBit(): Byte = (toInt() and 0xFF).takeHighestOneBit().toByte()\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the least significant set bit of this [Byte] number,\r\n * or zero, if this number is zero.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Byte.takeLowestOneBit(): Byte = toInt().takeLowestOneBit().toByte()\r\n\r\n\r\n/**\r\n * Rotates the binary representation of this [Byte] number left by the specified [bitCount] number of bits.\r\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\r\n *\r\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\r\n * `number.rotateLeft(-n) == number.rotateRight(n)`\r\n *\r\n * Rotating by a multiple of [Byte.SIZE_BITS] (8) returns the same number, or more generally\r\n * `number.rotateLeft(n) == number.rotateLeft(n % 8)`\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic fun Byte.rotateLeft(bitCount: Int): Byte =\r\n (toInt().shl(bitCount and 7) or (toInt() and 0xFF).ushr(8 - (bitCount and 7))).toByte()\r\n\r\n/**\r\n * Rotates the binary representation of this [Byte] number right by the specified [bitCount] number of bits.\r\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\r\n *\r\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\r\n * `number.rotateRight(-n) == number.rotateLeft(n)`\r\n *\r\n * Rotating by a multiple of [Byte.SIZE_BITS] (8) returns the same number, or more generally\r\n * `number.rotateRight(n) == number.rotateRight(n % 8)`\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic fun Byte.rotateRight(bitCount: Int): Byte =\r\n (toInt().shl(8 - (bitCount and 7)) or (toInt() and 0xFF).ushr(bitCount and 7)).toByte()\r\n\r\n/**\r\n * Counts the number of set bits in the binary representation of this [Short] number.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Short.countOneBits(): Int = (toInt() and 0xFFFF).countOneBits()\r\n\r\n/**\r\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Short] number.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Short.countLeadingZeroBits(): Int =\r\n (toInt() and 0xFFFF).countLeadingZeroBits() - (Int.SIZE_BITS - Short.SIZE_BITS)\r\n\r\n/**\r\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Short] number.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Short.countTrailingZeroBits(): Int = (toInt() or 0x10000).countTrailingZeroBits()\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the most significant set bit of this [Short] number,\r\n * or zero, if this

number is zero.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Short.takeHighestOneBit(): Short = (toInt() and 0xFFFF).takeHighestOneBit().toShort()\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the least significant set bit of this [Short] number,\r\n * or zero, if this number is zero.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@kotlin.internal.InlineOnly\r\npublic inline fun Short.takeLowestOneBit(): Short = toInt().takeLowestOneBit().toShort()\r\n\r\n\r\n/**\r\n * Rotates the binary representation of this [Short] number left by the specified [bitCount] number of bits.\r\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\r\n *\r\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\r\n * `number.rotateLeft(-n) == number.rotateRight(n)`\r\n *\r\n * Rotating by a multiple of [Short.SIZE_BITS] (16) returns the same number, or more generally\r\n * `number.rotateLeft(n) == number.rotateLeft(n % 16)`\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic fun Short.rotateLeft(bitCount: Int): Short =\r\n (toInt().shl(bitCount and 15) or (toInt() and 0xFFFF).ushr(16 - (bitCount and 15))).toShort()\r\n\r\n/**\r\n * Rotates the binary representation of this [Short] number right by the specified [bitCount] number of bits.\r\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\r\n *\r\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\r\n * `number.rotateRight(-n) == number.rotateLeft(n)`\r\n *\r\n * Rotating by a multiple of [Short.SIZE_BITS] (16) returns the same number, or more generally\r\n * `number.rotateRight(n) == number.rotateRight(n % 16)`\r\n
/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\npublic fun Short.rotateRight(bitCount: Int): Short =\r\n (toInt().shl(16 - (bitCount and 15)) or (toInt() and 0xFFFF).ushr(bitCount and 15)).toShort()\r\n","/\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin\r\nimport kotlin.internal.RequireKotlin\r\nimport kotlin.internal.RequireKotlinVersionKind\r\n\r\n@kotlin.internal.InlineOnly\r\n@SinceKotlin(\"1.2\")\r\n@Suppress(\"INVISIBLE_MEMBER\", \"INVISIBLE_REFERENCE\")\r\n@RequireKotlin(\"1.2.30\", level = DeprecationLevel.HIDDEN, versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\r\npublic inline fun <R> suspend(noinline block: suspend () -> R): suspend () -> R = block\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n
*/\r\n\r\n@file:kotlin.jvm.JvmName(\"TuplesKt\")\r\n\r\npackage kotlin\r\n\r\n\r\n/**\r\n * Represents a generic pair of two values.\r\n *\r\n * There is no meaning attached to values in this class, it can be used for any purpose.\r\n * Pair exhibits value semantics, i.e. two pairs are equal if both components are equal.\r\n *\r\n * An example of decomposing it into values:\r\n * @sample samples.misc.Tuples.pairDestructuring\r\n *\r\n * @param A type of the first value.\r\n * @param B type of the second value.\r\n * @property first First value.\r\n * @property second Second value.\r\n * @constructor Creates a new instance of Pair.\r\n */\r\npublic data class Pair<out A, out B>(\r\n public val first: A,\r\n public val second: B\r\n) : Serializable {\r\n\r\n /**\r\n * Returns string representation of the [Pair] including its [first] and [second] values.\r\n */\r\n public override fun toString(): String = \"($first, $second)\"\r\n}\r\n\r\n/**\r\n * Creates a tuple of type [Pair] from this and [that].\r\n *\r\n * This can be useful for creating [Map] literals with less noise, for example:\r\n * @sample samples.collections.Maps.Instantiation.mapFromPairs\r\n */\r\npublic infix fun <A, B> A.to(that: B): Pair<A, B> = Pair(this, that)\r\n\r\n/**\r\n * Converts this pair into a list.\r\n * @sample samples.misc.Tuples.pairToList\r\n */\r\npublic fun <T> Pair<T, T>.toList(): List<T> = listOf(first, second)\r\n\r\n/**\r\n * Represents a triad of values\r\n *\r\n * There is no meaning attached to values in this class, it can be used for any purpose.\r\n * Triple exhibits value semantics, i.e. two triples are equal if all three components are equal.\r\n * An example of decomposing it into values:\r\n * @sample samples.misc.Tuples.tripleDestructuring\r\n *\r\n * @param A type of the first value.\r\n * @param B type of the second value.\r\n * @param C type of the third value.\r\n * @property first First value.\r\n * @property second Second value.\r\n * @property third Third value.\r\n */\r\npublic data class

Triple<out A, out B, out C>(\r\n   public val first: A,\r\n   public val second: B,\r\n   public val third: C\r\n) : Serializable {\r\n\r\n   /**\r\n   * Returns string representation of the [Triple] including its [first], [second] and [third] values.\r\n   */\r\n   public override fun toString(): String = \"($first, $second, $third)\"\r\n}\r\n\r\n/**\r\n * Converts this triple into a list.\r\n * @sample samples.misc.Tuples.tripleToList\r\n */\r\npublic fun <T> Triple<T, T, T>.toList(): List<T> = listOf(first, second, third)\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\r\npackage kotlin\r\n\r\nimport kotlin.annotation.AnnotationTarget.*\r\nimport kotlin.internal.RequireKotlin\r\nimport kotlin.internal.RequireKotlinVersionKind\r\n\r\n/**\r\n * Marks the API that is dependent on the experimental unsigned types, including those types themselves.\r\n *\r\n * Usages of such API will be reported as warnings unless an explicit opt-in with\r\n * the [UseExperimental] annotation, e.g. `@UseExperimental(ExperimentalUnsignedTypes::class)`,\r\n * or with the `-Xuse-experimental=kotlin.ExperimentalUnsignedTypes` compiler option is given.\r\n *\r\n * It's recommended to propagate the experimental status to the API that depends on unsigned types by annotating it with this annotation.\r\n */\r\n@Experimental(level = Experimental.Level.WARNING)\r\n@MustBeDocumented\r\n@Target(CLASS, ANNOTATION_CLASS, PROPERTY, FIELD, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER, TYPEALIAS)\r\n@Retention(AnnotationRetention.BINARY)\r\n@RequireKotlin(\"1.2.50\", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\r\npublic annotation class ExperimentalUnsignedTypes\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// Auto-generated file. DO NOT EDIT!\r\n\r\npackage kotlin.ranges\r\n\r\n\r\n\r\nimport kotlin.internal.*\r\n\r\n/**\r\n * A range of values of type `UInt`.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic class UIntRange(start: UInt, endInclusive: UInt) : UIntProgression(start, endInclusive, 1), ClosedRange<UInt> {\r\n   override val start: UInt get() = first\r\n   override val endInclusive: UInt get() = last\r\n\r\n   override fun contains(value: UInt): Boolean = first <= value && value <= last\r\n\r\n   override fun isEmpty(): Boolean = first > last\r\n\r\n   override fun equals(other: Any?): Boolean =\r\n   other is UIntRange && (isEmpty() && other.isEmpty() ||\r\n   first == other.first && last == other.last)\r\n\r\n   override fun hashCode(): Int =\r\n   if (isEmpty()) -1 else (31 * first.toInt() + last.toInt())\r\n\r\n   override fun toString(): String = \"$first..$last\"\r\n\r\n   companion object {\r\n   /** An empty range of values of type UInt. */\r\n   public val EMPTY: UIntRange = UIntRange(UInt.MAX_VALUE, UInt.MIN_VALUE)\r\n   }\r\n}\r\n\r\n/**\r\n * A progression of values of type `UInt`.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic open class UIntProgression\r\ninternal constructor(\r\n   start: UInt,\r\n   endInclusive: UInt,\r\n   step: Int\r\n) : Iterable<UInt> {\r\n   init {\r\n   if (step == 0.toInt()) throw kotlin.IllegalArgumentException(\"Step must be non-zero.\")\r\n   if (step == Int.MIN_VALUE) throw kotlin.IllegalArgumentException(\"Step must be greater than Int.MIN_VALUE to avoid overflow on negation.\")\r\n   }\r\n\r\n   /**\r\n   * The first element in the progression.\r\n   */\r\n   public val first: UInt = start\r\n\r\n   /**\r\n   * The last element in the progression.\r\n   */\r\n   public val last: UInt = getProgressionLastElement(start, endInclusive, step)\r\n\r\n   /**\r\n   * The step of the progression.\r\n   */\r\n   public val step: Int = step\r\n\r\n   override fun iterator(): UIntIterator = UIntProgressionIterator(first, last, step)\r\n\r\n   /** Checks if the progression is empty. */\r\n   public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\r\n\r\n   override fun equals(other: Any?): Boolean =\r\n   other is UIntProgression && (isEmpty() && other.isEmpty() ||\r\n   first == other.first && last == other.last && step == other.step)\r\n\r\n   override fun hashCode(): Int =\r\n   if (isEmpty()) -1 else (31 * (31 * first.toInt() + last.toInt()) + step.toInt())\r\n\r\n   override fun toString(): String = if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step ${-step}\"\r\n\r\n   companion object {\r\n   /**\r\n   * Creates UIntProgression within the specified bounds of a closed range.\r\n\r\n   * The progression starts with the [rangeStart] value and

goes toward the [rangeEnd] value not excluding it, with the specified [step].\r\n * In order to go backwards the [step] must be negative.\r\n *\r\n * [step] must be greater than `Int.MIN_VALUE` and not equal to zero.\r\n */\r\n public fun fromClosedRange(rangeStart: UInt, rangeEnd: UInt, step: Int): UIntProgression = UIntProgression(rangeStart, rangeEnd, step)\r\n }\r\n}\r\n\r\n\r\n/**\r\n * An iterator over a progression of values of type `UInt`.\r\n * @property step the number by which the value is incremented on each step.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\nprivate class UIntProgressionIterator(first: UInt, last: UInt, step: Int) : UIntIterator() {\r\n private val finalElement = last\r\n private var hasNext: Boolean = if (step > 0) first <= last else first >= last\r\n private val step = step.toUInt() // use 2-complement math for negative steps\r\n private var next = if (hasNext) first else finalElement\r\n\r\n override fun hasNext(): Boolean = hasNext\r\n\r\n override fun nextUInt(): UInt {\r\n val value = next\r\n if (value == finalElement) {\r\n if (!hasNext) throw kotlin.NoSuchElementException()\r\n hasNext = false\r\n } else {\r\n next += step\r\n }\r\n return value\r\n }\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// Auto-generated file. DO NOT EDIT!\r\n\r\npackage kotlin.collections\r\n\r\n/** An iterator over a sequence of values of type `UByte`. */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic abstract class UByteIterator : Iterator<UByte> {\r\n override final fun next() = nextUByte()\r\n\r\n /** Returns the next value in the sequence without boxing. */\r\n public abstract fun nextUByte(): UByte\r\n}\r\n\r\n/** An iterator over a sequence of values of type `UShort`. */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic abstract class UShortIterator : Iterator<UShort> {\r\n override final fun next() = nextUShort()\r\n\r\n /** Returns the next value in the sequence without boxing. */\r\n public abstract fun nextUShort(): UShort\r\n}\r\n\r\n/** An iterator over a sequence of values of type `UInt`. */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic abstract class UIntIterator : Iterator<UInt> {\r\n override final fun next() = nextUInt()\r\n\r\n /** Returns the next value in the sequence without boxing. */\r\n public abstract fun nextUInt(): UInt\r\n}\r\n\r\n/** An iterator over a sequence of values of type `ULong`. */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic abstract class ULongIterator : Iterator<ULong> {\r\n override final fun next() = nextULong()\r\n\r\n /** Returns the next value in the sequence without boxing. */\r\n public abstract fun nextULong(): ULong\r\n}\r\n\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n// Auto-generated file. DO NOT EDIT!\r\n\r\npackage kotlin.ranges\r\n\r\n\r\n\r\nimport kotlin.internal.*\r\n\r\n/**\r\n * A range of values of type `ULong`.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic class ULongRange(start: ULong, endInclusive: ULong) : ULongProgression(start, endInclusive, 1), ClosedRange<ULong> {\r\n override val start: ULong get() = first\r\n override val endInclusive: ULong get() = last\r\n\r\n override fun contains(value: ULong): Boolean = first <= value && value <= last\r\n\r\n override fun isEmpty(): Boolean = first > last\r\n\r\n override fun equals(other: Any?): Boolean =\r\n other is ULongRange && (isEmpty() && other.isEmpty() ||\r\n first == other.first && last == other.last)\r\n\r\n override fun hashCode(): Int =\r\n if (isEmpty()) -1 else (31 * (first xor (first shr 32)).toInt() + (last xor (last shr 32)).toInt())\r\n\r\n override fun toString(): String = \"$first..$last\"\r\n\r\n companion object {\r\n /** An empty range of values of type ULong. */\r\n public val EMPTY: ULongRange = ULongRange(ULong.MAX_VALUE, ULong.MIN_VALUE)\r\n }\r\n}\r\n\r\n/**\r\n * A progression of values of type `ULong`.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic open class ULongProgression\r\ninternal constructor(\r\n start: ULong,\r\n endInclusive: ULong,\r\n step: Long\r\n) : Iterable<ULong> {\r\n init {\r\n if (step == 0.toLong()) throw kotlin.IllegalArgumentException(\"Step must be non-zero.\")\r\n if (step == Long.MIN_VALUE) throw kotlin.IllegalArgumentException(\"Step must be greater than Long.MIN_VALUE to avoid overflow on negation.\")\r\n }\r\n\r\n /**\r\n * The first element in the progression.\r\n */\r\n public val first: ULong = start\r\n\r\n /**\r\n * The last element in the progression.\r\n */\r\n public val last: ULong = getProgressionLastElement(start, endInclusive, step)\r\n\r\n /**\r\n * The step of the progression.\r\n */\r\n public val step: Long = step\r\n\r\n override fun iterator():

ULongIterator = ULongProgressionIterator(first, last, step)\r\n\r\n   /** Checks if the progression is empty. */\r\n   public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\r\n\r\n   override fun equals(other: Any?): Boolean =\r\n   other is ULongProgression && (isEmpty() && other.isEmpty() ||\r\n   first == other.first && last == other.last && step == other.step)\r\n\r\n   override fun hashCode(): Int =\r\n   if (isEmpty()) -1 else (31 * (31 * (first xor (first shr 32)).toInt() + (last xor (last shr 32)).toInt()) + (step xor (step ushr 32)).toInt())\r\n\r\n   override fun toString(): String = if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step ${-step}\"\r\n\r\n   companion object {\r\n   /**\r\n   * Creates ULongProgression within the specified bounds of a closed range.\r\n\r\n   * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\r\n   * In order to go backwards the [step] must be negative.\r\n   *\r\n   * [step] must be greater than `Long.MIN_VALUE` and not equal to zero.\r\n   */\r\n   public fun fromClosedRange(rangeStart: ULong, rangeEnd: ULong, step: Long): ULongProgression = ULongProgression(rangeStart, rangeEnd, step)\r\n   }\r\n}\r\n\r\n\r\n/**\r\n * An iterator over a progression of values of type `ULong`.\r\n * @property step the number by which the value is incremented on each step.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\nprivate class ULongProgressionIterator(first: ULong, last: ULong, step: Long) : ULongIterator() {\r\n   private val finalElement = last\r\n   private var hasNext: Boolean = if (step > 0) first <= last else first >= last\r\n   private val step = step.toULong() // use 2-complement math for negative steps\r\n   private var next = if (hasNext) first else finalElement\r\n\r\n   override fun hasNext(): Boolean = hasNext\r\n\r\n   override fun nextULong(): ULong {\r\n   val value = next\r\n   if (value == finalElement) {\r\n   if (!hasNext) throw kotlin.NoSuchElementException()\r\n   hasNext = false\r\n   } else {\r\n   next += step\r\n   }\r\n   return value\r\n   }\r\n}\r\n\r\n\r\n","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\npackage kotlin.math\r\n\r\n/**\r\n * Returns the smaller of two values.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun min(a: UInt, b: UInt): UInt {\r\n   return minOf(a, b)\r\n}\r\n\r\n/**\r\n * Returns the smaller of two values.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun min(a: ULong, b: ULong): ULong {\r\n   return minOf(a, b)\r\n}\r\n\r\n/**\r\n * Returns the greater of two values.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun max(a: UInt, b: UInt): UInt {\r\n   return maxOf(a, b)\r\n}\r\n\r\n/**\r\n * Returns the greater of two values.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun max(a: ULong, b: ULong): ULong {\r\n   return maxOf(a, b)\r\n}","/*\r\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmName(\"UNumbersKt\")\r\npackage kotlin\r\n\r\n/**\r\n * Counts the number of set bits in the binary representation of this [UInt] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UInt.countOneBits(): Int = toInt().countOneBits()\r\n\r\n/**\r\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [UInt] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UInt.countLeadingZeroBits(): Int = toInt().countLeadingZeroBits()\r\n\r\n/**\r\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [UInt] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UInt.countTrailingZeroBits(): Int = toInt().countTrailingZeroBits()\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the most significant set bit of this [UInt] number,\r\n * or zero, if this number is zero.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UInt.takeHighestOneBit(): UInt = toInt().takeHighestOneBit().toUInt()\r\n\r\n/**\r\n *

Returns a number having a single bit set in the position of the least significant set bit of this [UInt] number,\r\n * or zero, if this number is zero.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UInt.takeLowestOneBit(): UInt = toInt().takeLowestOneBit().toUInt()\r\n\r\n/**\r\n * Rotates the binary representation of this [UInt] number left by the specified [bitCount] number of bits.\r\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\r\n *\r\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\r\n * `number.rotateLeft(-n) == number.rotateRight(n)`\r\n *\r\n * Rotating by a multiple of [UInt.SIZE_BITS] (32) returns the same number, or more generally\r\n * `number.rotateLeft(n) == number.rotateLeft(n % 32)`\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UInt.rotateLeft(bitCount: Int): UInt = toInt().rotateLeft(bitCount).toUInt()\r\n\r\n\r\n\r\n/**\r\n * Rotates the binary representation of this [UInt] number right by the specified [bitCount] number of bits.\r\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\r\n *\r\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\r\n * `number.rotateRight(-n) == number.rotateLeft(n)`\r\n *\r\n * Rotating by a multiple of [UInt.SIZE_BITS] (32) returns the same number, or more generally\r\n * `number.rotateRight(n) == number.rotateRight(n % 32)`\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UInt.rotateRight(bitCount: Int): UInt = toInt().rotateRight(bitCount).toUInt()\r\n\r\n\r\n\r\n/**\r\n * Counts the number of set bits in the binary representation of this [ULong] number.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ULong.countOneBits(): Int = toLong().countOneBits()\r\n\r\n/**\r\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [ULong] number.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ULong.countLeadingZeroBits(): Int = toLong().countLeadingZeroBits()\r\n\r\n/**\r\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [ULong] number.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ULong.countTrailingZeroBits(): Int = toLong().countTrailingZeroBits()\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the most significant set bit of this [ULong] number,\r\n * or zero, if this number is zero.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ULong.takeHighestOneBit(): ULong = toLong().takeHighestOneBit().toULong()\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the least significant set bit of this [ULong] number,\r\n * or zero, if this number is zero.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ULong.takeLowestOneBit(): ULong = toLong().takeLowestOneBit().toULong()\r\n\r\n/**\r\n * Rotates the binary representation of this [ULong] number left by the specified [bitCount] number of bits.\r\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\r\n *\r\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\r\n * `number.rotateLeft(-n) == number.rotateRight(n)`\r\n *\r\n * Rotating by a multiple of [ULong.SIZE_BITS] (64) returns the same number, or more generally\r\n * `number.rotateLeft(n) == number.rotateLeft(n % 64)`\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ULong.rotateLeft(bitCount: Int): ULong = toLong().rotateLeft(bitCount).toULong()\r\n\r\n/**\r\n * Rotates the binary representation of this [ULong] number

right by the specified [bitCount] number of bits.\r\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\r\n *\r\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\r\n * `number.rotateRight(-n) == number.rotateLeft(n)`\r\n *\r\n * Rotating by a multiple of [ULong.SIZE_BITS] (64) returns the same number, or more generally\r\n * `number.rotateRight(n) == number.rotateRight(n % 64)`\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun ULong.rotateRight(bitCount: Int): ULong = toLong().rotateRight(bitCount).toULong()\r\n\r\n/**\r\n * Counts the number of set bits in the binary representation of this [UByte] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UByte.countOneBits(): Int = toUInt().countOneBits()\r\n\r\n/**\r\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [UByte] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UByte.countLeadingZeroBits(): Int = toByte().countLeadingZeroBits()\r\n\r\n/**\r\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [UByte] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UByte.countTrailingZeroBits(): Int = toByte().countTrailingZeroBits()\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the most significant set bit of this [UByte] number,\r\n * or zero, if this number is zero.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UByte.takeHighestOneBit(): UByte = toInt().takeHighestOneBit().toUByte()\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the least significant set bit of this [UByte] number,\r\n * or zero, if this number is zero.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UByte.takeLowestOneBit(): UByte = toInt().takeLowestOneBit().toUByte()\r\n\r\n\r\n/**\r\n * Rotates the binary representation of this [UByte] number left by the specified [bitCount] number of bits.\r\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\r\n *\r\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\r\n * `number.rotateLeft(-n) == number.rotateRight(n)`\r\n *\r\n * Rotating by a multiple of [UByte.SIZE_BITS] (8) returns the same number, or more generally\r\n * `number.rotateLeft(n) == number.rotateLeft(n % 8)`\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UByte.rotateLeft(bitCount: Int): UByte = toByte().rotateLeft(bitCount).toUByte()\r\n\r\n/**\r\n * Rotates the binary representation of this [UByte] number right by the specified [bitCount] number of bits.\r\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\r\n *\r\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\r\n * `number.rotateRight(-n) == number.rotateLeft(n)`\r\n *\r\n * Rotating by a multiple of [UByte.SIZE_BITS] (8) returns the same number, or more generally\r\n * `number.rotateRight(n) == number.rotateRight(n % 8)`\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UByte.rotateRight(bitCount: Int): UByte = toByte().rotateRight(bitCount).toUByte()\r\n\r\n/**\r\n * Counts the number of set bits in the binary representation of this [UShort] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UShort.countOneBits(): Int = toUInt().countOneBits()\r\n\r\n/**\r\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [UShort] number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.Inli

neOnly\r\npublic inline fun UShort.countLeadingZeroBits(): Int = toShort().countLeadingZeroBits()\r\n\r\n/**\r\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [UShort] number.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UShort.countTrailingZeroBits(): Int = toShort().countTrailingZeroBits()\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the most significant set bit of this [UShort] number,\r\n * or zero, if this number is zero.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UShort.takeHighestOneBit(): UShort = toInt().takeHighestOneBit().toUShort()\r\n\r\n/**\r\n * Returns a number having a single bit set in the position of the least significant set bit of this [UShort] number,\r\n * or zero, if this number is zero.\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UShort.takeLowestOneBit(): UShort = toInt().takeLowestOneBit().toUShort()\r\n\r\n\r\n/**\r\n * Rotates the binary representation of this [UShort] number left by the specified [bitCount] number of bits.\r\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\r\n *\r\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\r\n * `number.rotateLeft(-n) == number.rotateRight(n)`\r\n *\r\n * Rotating by a multiple of [UShort.SIZE_BITS] (16) returns the same number, or more generally\r\n * `number.rotateLeft(n) == number.rotateLeft(n % 16)`\r\n
*/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UShort.rotateLeft(bitCount: Int): UShort = toShort().rotateLeft(bitCount).toUShort()\r\n\r\n/**\r\n * Rotates the binary representation of this [UShort] number right by the specified [bitCount] number of bits.\r\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\r\n *\r\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\r\n * `number.rotateRight(-n) == number.rotateLeft(n)`\r\n *\r\n * Rotating by a multiple of [UShort.SIZE_BITS] (16) returns the same number, or more generally\r\n * `number.rotateRight(n) == number.rotateRight(n % 16)`\r\n
/\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalStdlibApi\r\n@ExperimentalUnsignedTypes\r\n@kotlin.internal.InlineOnly\r\npublic inline fun UShort.rotateRight(bitCount: Int): UShort = toShort().rotateRight(bitCount).toUShort()\r\n","/\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n
*/\r\n\r\n@file:UseExperimental(ExperimentalUnsignedTypes::class)\r\npackage kotlin.internal\r\n\r\n// (a - b) mod c\r\nprivate fun differenceModulo(a: UInt, b: UInt, c: UInt): UInt {\r\n   val ac = a % c\r\n   val bc = b % c\r\n   return if (ac >= bc) ac - bc else ac - bc + c\r\n}\r\n\r\nprivate fun differenceModulo(a: ULong, b: ULong, c: ULong): ULong {\r\n   val ac = a % c\r\n   val bc = b % c\r\n   return if (ac >= bc) ac - bc else ac - bc + c\r\n}\r\n\r\n/**\r\n * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range\r\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\r\n * [step].\r\n *\r\n * No validation on passed parameters is performed. The given parameters should satisfy the condition:\r\n *\r\n * - either `step > 0` and `start <= end`,\r\n * - or `step < 0` and `start >= end`.\r\n *\r\n * @param start first element of the progression\r\n * @param end ending bound for the progression\r\n * @param step increment, or difference of successive elements in the progression\r\n * @return the final element of the progression\r\n * @suppress\r\n */\r\n@PublishedApi\r\n@SinceKotlin(\"1.3\")\r\ninternal fun getProgressionLastElement(start: UInt, end: UInt, step: Int): UInt = when {\r\n   step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step.toUInt())\r\n   step < 0 -> if (start <= end) end else end + differenceModulo(start, end, (-step).toUInt())\r\n   else -> throw kotlin.IllegalArgumentException(\"Step is zero.\")\r\n}\r\n\r\n\r\n/**\r\n * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range\r\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in

case of a negative\r\n * [step].\r\n *\r\n * No validation on passed parameters is performed. The given parameters should satisfy the condition:\r\n *\r\n * - either `step > 0` and `start <= end`,\r\n * - or `step < 0` and `start >= end`.\r\n *\r\n * @param start first element of the progression\r\n * @param end ending bound for the progression\r\n * @param step increment, or difference of successive elements in the progression\r\n * @return the final element of the progression\r\n * @suppress\r\n */\r\n@PublishedApi\r\n@SinceKotlin(\"1.3\")\r\ninternal fun getProgressionLastElement(start: ULong, end: ULong, step: Long): ULong = when {\r\n   step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step.toULong())\r\n   step < 0 -> if (start <= end) end else end + differenceModulo(start, end, (-step).toULong())\r\n   else -> throw kotlin.IllegalArgumentException(\"Step is zero.\")\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmName(\"UStringsKt\") // string representation of unsigned numbers\r\n\r\npackage kotlin.text\r\n\r\n/**\r\n * Returns a string representation of this [Byte] value in the specified [radix].\r\n *\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n//@kotlin.internal.InlineOnly\r\npublic /*inline*/ fun UByte.toString(radix: Int): String = this.toInt().toString(radix)\r\n\r\n/**\r\n * Returns a string representation of this [Short] value in the specified [radix].\r\n *\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n//@kotlin.internal.InlineOnly\r\npublic /*inline*/ fun UShort.toString(radix: Int): String = this.toInt().toString(radix)\r\n\r\n\r\n/**\r\n * Returns a string representation of this [Int] value in the specified [radix].\r\n *\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\n//@kotlin.internal.InlineOnly\r\npublic /*inline*/ fun UInt.toString(radix: Int): String = this.toLong().toString(radix)\r\n\r\n/**\r\n * Returns a string representation of this [Long] value in the specified [radix].\r\n *\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun ULong.toString(radix: Int): String = ulongToString(this.toLong(), checkRadix(radix))\r\n\r\n\r\n/**\r\n * Parses the string as a signed [UByte] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun String.toUByte(): UByte = toUByteOrNull() ?: numberFormatError(this)\r\n\r\n/**\r\n * Parses the string as a signed [UByte] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun String.toUByte(radix: Int): UByte = toUByteOrNull(radix) ?: numberFormatError(this)\r\n\r\n\r\n/**\r\n * Parses the string as a [UShort] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun String.toUShort(): UShort = toUShortOrNull() ?: numberFormatError(this)\r\n\r\n/**\r\n * Parses the string as a [UShort] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun String.toUShort(radix: Int): UShort = toUShortOrNull(radix) ?: numberFormatError(this)\r\n\r\n/**\r\n * Parses the string as an [UInt] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun String.toUInt(): UInt = toUIntOrNull() ?: numberFormatError(this)\r\n\r\n/**\r\n * Parses the string as an [UInt] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun String.toUInt(radix: Int): UInt = toUIntOrNull(radix) ?: numberFormatError(this)\r\n\r\n/**\r\n * Parses the string as a [ULong] number

and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun String.toULong(): ULong = toULongOrNull() ?: numberFormatError(this)\r\n\r\n/**\r\n * Parses the string as a [ULong] number and returns the result.\r\n * @throws NumberFormatException if the string is not a valid representation of a number.\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun String.toULong(radix: Int): ULong = toULongOrNull(radix) ?: numberFormatError(this)\r\n\r\n\r\n\r\n\r\n\r\n\r\n/**\r\n * Parses the string as an [UByte] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun String.toUByteOrNull(): UByte? = toUByteOrNull(radix = 10)\r\n\r\n/**\r\n * Parses the string as an [UByte] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n *\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun String.toUByteOrNull(radix: Int): UByte? {\r\n val int = this.toUIntOrNull(radix) ?: return null\r\n if (int > UByte.MAX_VALUE) return null\r\n return int.toUByte()\r\n}\r\n\r\n/**\r\n * Parses the string as an [UShort] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun String.toUShortOrNull(): UShort? = toUShortOrNull(radix = 10)\r\n\r\n/**\r\n * Parses the string as an [UShort] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n *\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun String.toUShortOrNull(radix: Int): UShort? {\r\n val int = this.toUIntOrNull(radix) ?: return null\r\n if (int > UShort.MAX_VALUE) return null\r\n return int.toUShort()\r\n}\r\n\r\n/**\r\n * Parses the string as an [UInt] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun String.toUIntOrNull(): UInt? = toUIntOrNull(radix = 10)\r\n\r\n/**\r\n * Parses the string as an [UInt] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n *\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun String.toUIntOrNull(radix: Int): UInt? {\r\n checkRadix(radix)\r\n\r\n val length = this.length\r\n if (length == 0) return null\r\n\r\n val limit: UInt = UInt.MAX_VALUE\r\n val start: Int\r\n\r\n val firstChar = this[0]\r\n if (firstChar < '0') {\r\n if (length == 1 || firstChar != '+') return null\r\n start = 1\r\n } else {\r\n start = 0\r\n }\r\n\r\n val uradix = radix.toUInt()\r\n val limitBeforeMul = limit / uradix\r\n var result = 0u\r\n for (i in start until length) {\r\n val digit = digitOf(this[i], radix)\r\n\r\n if (digit < 0) return null\r\n if (result > limitBeforeMul) return null\r\n\r\n result *= uradix\r\n\r\n val beforeAdding = result\r\n result += digit.toUInt()\r\n if (result < beforeAdding) return null // overflow has happened\r\n }\r\n\r\n return result\r\n}\r\n\r\n/**\r\n * Parses the string as an [ULong] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun String.toULongOrNull(): ULong? = toULongOrNull(radix = 10)\r\n\r\n/**\r\n * Parses the string as an [ULong] number and returns the result\r\n * or `null` if the string is not a valid representation of a number.\r\n *\r\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\r\n */\r\n@SinceKotlin(\"1.3\")\r\n@ExperimentalUnsignedTypes\r\npublic fun String.toULongOrNull(radix: Int): ULong? {\r\n checkRadix(radix)\r\n\r\n val length = this.length\r\n if (length == 0) return null\r\n\r\n val limit: ULong = ULong.MAX_VALUE\r\n val start: Int\r\n\r\n val firstChar = this[0]\r\n if (firstChar < '0') {\r\n if (length == 1 || firstChar != '+') return null\r\n start = 1\r\n } else {\r\n start = 0\r\n }\r\n\r\n\r\n val uradix = radix.toUInt()\r\n val limitBeforeMul = limit / uradix\r\n var result = 0uL\r\n for (i in start until length) {\r\n val digit = digitOf(this[i], radix)\r\n\r\n if (digit < 0) return null\r\n if (result > limitBeforeMul) return null\r\n\r\n result *= uradix\r\n\r\n val beforeAdding = result\r\n result +=

digit.toUInt()\r\n   if (result < beforeAdding) return null // overflow has happened\r\n   }\r\n\r\n   return result\r\n}\r\n","/*\r\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\r\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\r\n */\r\n\r\n@file:kotlin.jvm.JvmMultifileClass\r\n@file:kotlin.jvm.JvmName(\"MathKt\")\r\n\r\n\r\npackage kotlin.math\r\n\r\n\r\n\r\n// constants, can't use them from nativeMath as they are not constants there\r\n\r\n/** Ratio of the circumference of a circle to its diameter, approximately 3.14159. */\r\n@SinceKotlin(\"1.2\")\r\npublic const val PI: Double = 3.141592653589793\r\n/** Base of the natural logarithms, approximately 2.71828. */\r\n@SinceKotlin(\"1.2\")\r\npublic const val E: Double = 2.718281828459045\r\n\r\n// region ================ Double Math ==\r\n\r\n/** Computes the sine of the angle [x] given in radians.\r\n *\r\n * Special cases:\r\n *   - `sin(NaN|+Inf|-Inf)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun sin(x: Double): Double\r\n\r\n/** Computes the cosine of the angle [x] given in radians.\r\n *\r\n * Special cases:\r\n *   - `cos(NaN|+Inf|-Inf)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun cos(x: Double): Double\r\n\r\n/** Computes the tangent of the angle [x] given in radians.\r\n *\r\n * Special cases:\r\n *   - `tan(NaN|+Inf|-Inf)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun tan(x: Double): Double\r\n\r\n/**\r\n * Computes the arc sine of the value [x];\r\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\r\n *\r\n * Special cases:\r\n *   - `asin(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun asin(x: Double): Double\r\n\r\n/**\r\n * Computes the arc cosine of the value [x];\r\n * the returned value is an angle in the range from `0.0` to `PI` radians.\r\n *\r\n * Special cases:\r\n *   - `acos(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun acos(x: Double): Double\r\n\r\n/**\r\n * Computes the arc tangent of the value [x];\r\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\r\n *\r\n * Special cases:\r\n *   - `atan(NaN)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun atan(x: Double): Double\r\n\r\n/**\r\n * Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond\r\n * to the rectangular coordinates `(x, y)` by computing the arc tangent of the value [y] / [x];\r\n * the returned value is an angle in the range from `-PI` to `PI` radians.\r\n *\r\n * Special cases:\r\n *   - `atan2(0.0, 0.0)` is `0.0`\r\n *   - `atan2(0.0, x)` is `0.0` for `x > 0` and `PI` for `x < 0`\r\n *   - `atan2(-0.0, x)` is `-0.0` for 'x > 0` and `-PI` for `x < 0`\r\n *   - `atan2(y, +Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for '-Inf < y < 0`\r\n *   - `atan2(y, -Inf)` is `PI` for `0 < y < +Inf` and `-PI` for `-Inf < y < 0`\r\n *   - `atan2(y, 0.0)` is `PI/2` for `y > 0` and `-PI/2` for `y < 0`\r\n *   - `atan2(+Inf, x)` is `PI/2` for finite `x`y\r\n *   - `atan2(-Inf, x)` is `-PI/2` for finite `x`\r\n *   - `atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun atan2(y: Double, x: Double): Double\r\n\r\n/**\r\n * Computes the hyperbolic sine of the value [x].\r\n *\r\n * Special cases:\r\n *   - `sinh(NaN)` is `NaN`\r\n *   - `sinh(+Inf)` is `+Inf`\r\n *   - `sinh(-Inf)` is `-Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun sinh(x: Double): Double\r\n\r\n/**\r\n * Computes the hyperbolic cosine of the value [x].\r\n *\r\n * Special cases:\r\n *   - `cosh(NaN)` is `NaN`\r\n *   - `cosh(+Inf|-Inf)` is `+Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun cosh(x: Double): Double\r\n\r\n/**\r\n * Computes the hyperbolic tangent of the value [x].\r\n *\r\n * Special cases:\r\n *   - `tanh(NaN)` is `NaN`\r\n *   - `tanh(+Inf)` is `1.0`\r\n *   - `tanh(-Inf)` is `-1.0`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun tanh(x: Double): Double\r\n\r\n/**\r\n * Computes the inverse hyperbolic sine of the value [x].\r\n *\r\n * The returned value is `y` such that `sinh(y) == x`.\r\n *\r\n * Special cases:\r\n *   - `asinh(NaN)` is `NaN`\r\n *   - `asinh(+Inf)` is `+Inf`\r\n *   - `asinh(-Inf)` is `-Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun asinh(x: Double): Double\r\n\r\n/**\r\n * Computes the inverse hyperbolic cosine of the value [x].\r\n *\r\n * The returned value is positive `y` such that `cosh(y) == x`.\r\n *\r\n * Special cases:\r\n *   - `acosh(NaN)` is `NaN`\r\n *   - `acosh(x)` is `NaN` when `x < 1`\r\n *   - `acosh(+Inf)` is `+Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun acosh(x: Double): Double\r\n\r\n/**\r\n * Computes the inverse hyperbolic tangent of the value [x].\r\n *\r\n * The returned value is `y` such that `tanh(y) == x`.\r\n *\r\n * Special cases:\r\n *   - `tanh(NaN)` is `NaN`\r\n *   - `tanh(x)` is `NaN` when `x > 1` or `x < -1`\r\n *   - `tanh(1.0)` is `+Inf`\r\n *   - `tanh(-1.0)` is `-Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun atanh(x: Double): Double\r\n\r\n/**\r\n * Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow.\r\n *\r\n * Special cases:\r\n *   - returns `+Inf` if any of arguments is infinite\r\n *   - returns `NaN` if any of arguments is `NaN` and

the other is not infinite\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun hypot(x: Double, y: Double): Double\r\n\r\n/**\r\n * Computes the positive square root of the value [x].\r\n *\r\n * Special cases:\r\n * - `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun sqrt(x: Double): Double\r\n\r\n/**\r\n * Computes Euler's number `e` raised to the power of the value [x].\r\n *\r\n * Special cases:\r\n * - `exp(NaN)` is `NaN`\r\n * - `exp(+Inf)` is `+Inf`\r\n * - `exp(-Inf)` is `0.0`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun exp(x: Double): Double\r\n\r\n/**\r\n * Computes `exp(x) - 1`.\r\n *\r\n * This function can be implemented to produce more precise result for [x] near zero.\r\n *\r\n * Special cases:\r\n * - `expm1(NaN)` is `NaN`\r\n * - `expm1(+Inf)` is `+Inf`\r\n * - `expm1(-Inf)` is `-1.0`\r\n *\r\n * @see [exp] function.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun expm1(x: Double): Double\r\n\r\n/**\r\n * Computes the logarithm of the value [x] to the given [base].\r\n *\r\n * Special cases:\r\n * - `log(x, b)` is `NaN` if either `x` or `b` are `NaN`\r\n * - `log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0`\r\n * - `log(+Inf, +Inf)` is `NaN`\r\n * - `log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1`\r\n * - `log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1`\r\n *\r\n * See also logarithm functions for common fixed bases: [ln], [log10] and [log2].\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun log(x: Double, base: Double): Double\r\n\r\n/**\r\n * Computes the natural logarithm (base `E`) of the value [x].\r\n *\r\n * Special cases:\r\n * - `ln(NaN)` is `NaN`\r\n * - `ln(x)` is `NaN` when `x < 0.0`\r\n * - `ln(+Inf)` is `+Inf`\r\n * - `ln(0.0)` is `-Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun ln(x: Double): Double\r\n\r\n/**\r\n * Computes the common logarithm (base 10) of the value [x].\r\n *\r\n * @see [ln] function for special cases.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun log10(x: Double): Double\r\n\r\n/**\r\n * Computes the binary logarithm (base 2) of the value [x].\r\n *\r\n * @see [ln] function for special cases.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun log2(x: Double): Double\r\n\r\n/**\r\n * Computes `ln(x + 1)`.\r\n *\r\n * This function can be implemented to produce more precise result for [x] near zero.\r\n *\r\n * Special cases:\r\n * - `ln1p(NaN)` is `NaN`\r\n * - `ln1p(x)` is `NaN` where `x < -1.0`\r\n * - `ln1p(-1.0)` is `-Inf`\r\n * - `ln1p(+Inf)` is `+Inf`\r\n *\r\n * @see [ln] function\r\n * @see [expm1] function\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun ln1p(x: Double): Double\r\n\r\n/**\r\n * Rounds the given value [x] to an integer towards positive infinity.\r\n\r\n * @return the smallest double value that is greater than or equal to the given value [x] and is a mathematical integer.\r\n *\r\n * Special cases:\r\n * - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun ceil(x: Double): Double\r\n\r\n/**\r\n * Rounds the given value [x] to an integer towards negative infinity.\r\n\r\n * @return the largest double value that is smaller than or equal to the given value [x] and is a mathematical integer.\r\n *\r\n * Special cases:\r\n * - `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun floor(x: Double): Double\r\n\r\n/**\r\n * Rounds the given value [x] to an integer towards zero.\r\n *\r\n * @return the value [x] having its fractional part truncated.\r\n *\r\n * Special cases:\r\n * - `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun truncate(x: Double): Double\r\n\r\n/**\r\n * Rounds the given value [x] towards the closest integer with ties rounded towards even integer.\r\n *\r\n * Special cases:\r\n * - `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun round(x: Double): Double\r\n\r\n/**\r\n * Returns the absolute value of the given value [x].\r\n *\r\n * Special cases:\r\n * - `abs(NaN)` is `NaN`\r\n *\r\n * @see absoluteValue extension property for [Double]\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun abs(x: Double): Double\r\n\r\n/**\r\n * Returns the sign of the given value [x]:\r\n * - `-1.0` if the value is negative,\r\n * - zero if the value is zero,\r\n * - `1.0` if the value is positive\r\n *\r\n * Special case:\r\n * - `sign(NaN)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun sign(x: Double): Double\r\n\r\n\r\n/**\r\n * Returns the smaller of two values.\r\n *\r\n * If either value is `NaN`, then the result is `NaN`.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun min(a: Double, b: Double): Double\r\n\r\n/**\r\n * Returns the greater of two values.\r\n *\r\n * If either value is `NaN`, then the result is `NaN`.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun max(a: Double, b: Double): Double\r\n\r\n// extensions\r\n\r\n/**\r\n * Raises this value to the power [x].\r\n *\r\n * Special cases:\r\n * - `b.pow(0.0)` is

`1.0`\r\n * - `b.pow(1.0) == b`\r\n * - `b.pow(NaN)` is `NaN`\r\n * - `NaN.pow(x)` is `NaN` for `x != 0.0`\r\n * - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\r\n * - `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun Double.pow(x: Double): Double\r\n\r\n/**\r\n * Raises this value to the integer power [n].\r\n *\r\n * See the other overload of [pow] for details.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun Double.pow(n: Int): Double\r\n\r\n/**\r\n * Returns the absolute value of this value.\r\n *\r\n * Special cases:\r\n * - `NaN.absoluteValue` is `NaN`\r\n *\r\n * @see abs function\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect val Double.absoluteValue: Double\r\n\r\n/**\r\n * Returns the sign of this value:\r\n * - `-1.0` if the value is negative,\r\n * - zero if the value is zero,\r\n * - `1.0` if the value is positive\r\n *\r\n * Special case:\r\n * - `NaN.sign` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect val Double.sign: Double\r\n\r\n/**\r\n * Returns this value with the sign bit same as of the [sign] value.\r\n *\r\n * If [sign] is `NaN` the sign of the result is undefined.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun Double.withSign(sign: Double): Double\r\n\r\n/**\r\n * Returns this value with the sign bit same as of the [sign] value.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun Double.withSign(sign: Int): Double\r\n\r\n/**\r\n * Returns the ulp (unit in the last place) of this value.\r\n *\r\n * An ulp is a positive distance between this value and the next nearest [Double] value larger in magnitude.\r\n *\r\n * Special Cases:\r\n * - `NaN.ulp` is `NaN`\r\n * - `x.ulp` is `+Inf` when `x` is `+Inf` or `-Inf`\r\n * - `0.0.ulp` is `Double.MIN_VALUE`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect val Double.ulp: Double\r\n\r\n/**\r\n * Returns the [Double] value nearest to this value in direction of positive infinity.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun Double.nextUp(): Double\r\n\r\n/**\r\n * Returns the [Double] value nearest to this value in direction of negative infinity.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun Double.nextDown(): Double\r\n\r\n/**\r\n * Returns the [Double] value nearest to this value in direction from this value towards the value [to].\r\n *\r\n * Special cases:\r\n * - `x.nextTowards(y)` is `NaN` if either `x` or `y` are `NaN`\r\n * - `x.nextTowards(x) == x`\r\n *\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun Double.nextTowards(to: Double): Double\r\n\r\n/**\r\n * Rounds this [Double] value to the nearest integer and converts the result to [Int].\r\n * Ties are rounded towards positive infinity.\r\n *\r\n * Special cases:\r\n * - `x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`\r\n * - `x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`\r\n *\r\n * @throws IllegalArgumentException when this value is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun Double.roundToInt(): Int\r\n\r\n/**\r\n * Rounds this [Double] value to the nearest integer and converts the result to [Long].\r\n * Ties are rounded towards positive infinity.\r\n *\r\n * Special cases:\r\n * - `x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`\r\n * - `x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE`\r\n *\r\n * @throws IllegalArgumentException when this value is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun Double.roundToLong(): Long\r\n\r\n// endregion\r\n\r\n\r\n// region ================ Float Math ======================================\r\n\r\n/** Computes the sine of the angle [x] given in radians.\r\n *\r\n * Special cases:\r\n * - `sin(NaN|+Inf|-Inf)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun sin(x: Float): Float\r\n\r\n/** Computes the cosine of the angle [x] given in radians.\r\n *\r\n * Special cases:\r\n * - `cos(NaN|+Inf|-Inf)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun cos(x: Float): Float\r\n\r\n/** Computes the tangent of the angle [x] given in radians.\r\n *\r\n * Special cases:\r\n * - `tan(NaN|+Inf|-Inf)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun tan(x: Float): Float\r\n\r\n/**\r\n * Computes the arc sine of the value [x];\r\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\r\n *\r\n * Special cases:\r\n * - `asin(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun asin(x: Float): Float\r\n\r\n/**\r\n * Computes the arc cosine of the value [x];\r\n * the returned value is an angle in the range from `0.0` to `PI` radians.\r\n *\r\n * Special cases:\r\n * - `acos(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun acos(x: Float): Float\r\n\r\n/**\r\n * Computes the arc tangent of the value [x];\r\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\r\n *\r\n * Special cases:\r\n * - `atan(NaN)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun atan(x: Float): Float\r\n\r\n/**\r\n * Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond\r\n * to the rectangular coordinates `(x, y)` by computing the arc tangent of the value [y] / [x];\r\n * the returned value is an

angle in the range from `-PI` to `PI` radians.\r\n *\r\n * Special cases:\r\n * - `atan2(0.0, 0.0)` is `0.0`\r\n * - `atan2(0.0, x)` is `0.0` for `x > 0` and `PI` for `x < 0`\r\n * - `atan2(-0.0, x)` is `-0.0` for 'x > 0` and `-PI` for `x < 0`\r\n *  - `atan2(y, +Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for '-Inf < y < 0`\r\n * - `atan2(y, -Inf)` is `PI` for `0 < y < +Inf` and `-PI` for `-Inf < y < 0`\r\n * - `atan2(y, 0.0)` is `PI/2` for `y > 0` and `-PI/2` for `y < 0`\r\n * - `atan2(+Inf, x)` is `PI/2` for finite `x`y\r\n * - `atan2(-Inf, x)` is `-PI/2` for finite `x`\r\n * - `atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun atan2(y: Float, x: Float): Float\r\n\r\n/**\r\n * Computes the hyperbolic sine of the value [x].\r\n *\r\n * Special cases:\r\n * - `sinh(NaN)` is `NaN`\r\n * - `sinh(+Inf)` is `+Inf`\r\n * - `sinh(-Inf)` is `-Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun sinh(x: Float): Float\r\n\r\n/**\r\n * Computes the hyperbolic cosine of the value [x].\r\n *\r\n * Special cases:\r\n * - `cosh(NaN)` is `NaN`\r\n * - `cosh(+Inf|-Inf)` is `+Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun cosh(x: Float): Float\r\n\r\n/**\r\n * Computes the hyperbolic tangent of the value [x].\r\n *\r\n * Special cases:\r\n * - `tanh(NaN)` is `NaN`\r\n * - `tanh(+Inf)` is `1.0`\r\n * - `tanh(-Inf)` is `-1.0`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun tanh(x: Float): Float\r\n\r\n/**\r\n * Computes the inverse hyperbolic sine of the value [x].\r\n *\r\n * The returned value is `y` such that `sinh(y) == x`.\r\n *\r\n * Special cases:\r\n * - `asinh(NaN)` is `NaN`\r\n * - `asinh(+Inf)` is `+Inf`\r\n * - `asinh(-Inf)` is `-Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun asinh(x: Float): Float\r\n\r\n/**\r\n * Computes the inverse hyperbolic cosine of the value [x].\r\n *\r\n * The returned value is positive `y` such that `cosh(y) == x`.\r\n *\r\n * Special cases:\r\n * - `acosh(NaN)` is `NaN`\r\n * - `acosh(x)` is `NaN` when `x < 1`\r\n * - `acosh(+Inf)` is `+Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun acosh(x: Float): Float\r\n\r\n/**\r\n * Computes the inverse hyperbolic tangent of the value [x].\r\n *\r\n * The returned value is `y` such that `tanh(y) == x`.\r\n *\r\n * Special cases:\r\n * - `tanh(NaN)` is `NaN`\r\n * - `tanh(x)` is `NaN` when `x > 1` or `x < -1`\r\n * - `tanh(1.0)` is `+Inf`\r\n * - `tanh(-1.0)` is `-Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun atanh(x: Float): Float\r\n\r\n/**\r\n * Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow.\r\n *\r\n * Special cases:\r\n * - returns `+Inf` if any of arguments is infinite\r\n * - returns `NaN` if any of arguments is `NaN` and the other is not infinite\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun hypot(x: Float, y: Float): Float\r\n\r\n/**\r\n * Computes the positive square root of the value [x].\r\n *\r\n * Special cases:\r\n * - `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun sqrt(x: Float): Float\r\n\r\n/**\r\n * Computes Euler's number `e` raised to the power of the value [x].\r\n *\r\n * Special cases:\r\n * - `exp(NaN)` is `NaN`\r\n * - `exp(+Inf)` is `+Inf`\r\n * - `exp(-Inf)` is `0.0`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun exp(x: Float): Float\r\n\r\n/**\r\n * Computes `exp(x) - 1`.\r\n *\r\n * This function can be implemented to produce more precise result for [x] near zero.\r\n *\r\n * Special cases:\r\n * - `expm1(NaN)` is `NaN`\r\n * - `expm1(+Inf)` is `+Inf`\r\n * - `expm1(-Inf)` is `-1.0`\r\n *\r\n * @see [exp] function.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun expm1(x: Float): Float\r\n\r\n/**\r\n * Computes the logarithm of the value [x] to the given [base].\r\n *\r\n * Special cases:\r\n * - `log(x, b)` is `NaN` if either `x` or `b` are `NaN`\r\n * - `log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0`\r\n * - `log(+Inf, +Inf)` is `NaN`\r\n * - `log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1`\r\n * - `log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1`\r\n *\r\n * See also logarithm functions for common fixed bases: [ln], [log10] and [log2].\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun log(x: Float, base: Float): Float\r\n\r\n/**\r\n * Computes the natural logarithm (base `E`) of the value [x].\r\n *\r\n * Special cases:\r\n * - `ln(NaN)` is `NaN`\r\n * - `ln(x)` is `NaN` when `x < 0.0`\r\n * - `ln(+Inf)` is `+Inf`\r\n * - `ln(0.0)` is `-Inf`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun ln(x: Float): Float\r\n\r\n/**\r\n * Computes the common logarithm (base 10) of the value [x].\r\n *\r\n * @see [ln] function for special cases.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun log10(x: Float): Float\r\n\r\n/**\r\n * Computes the binary logarithm (base 2) of the value [x].\r\n *\r\n * @see [ln] function for special cases.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun log2(x: Float): Float\r\n\r\n/**\r\n * Computes `ln(a + 1)`.\r\n *\r\n * This function can be implemented to produce more precise result for [x] near zero.\r\n *\r\n * Special cases:\r\n * - `ln1p(NaN)` is `NaN`\r\n * - `ln1p(x)` is `NaN` where `x < -1.0`\r\n * - `ln1p(-1.0)` is `-Inf`\r\n * - `ln1p(+Inf)` is `+Inf`\r\n *\r\n * @see [ln] function\r\n * @see [expm1] function\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun ln1p(x: Float): Float\r\n\r\n/**\r\n * Rounds the given value [x] to

an integer towards positive infinity.\r\n\r\n * @return the smallest Float value that is greater than or equal to the given value [x] and is a mathematical integer.\r\n *\r\n * Special cases:\r\n * - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun ceil(x: Float): Float\r\n\r\n/**\r\n * Rounds the given value [x] to an integer towards negative infinity.\r\n\r\n * @return the largest Float value that is smaller than or equal to the given value [x] and is a mathematical integer.\r\n *\r\n * Special cases:\r\n * - `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun floor(x: Float): Float\r\n\r\n/**\r\n * Rounds the given value [x] to an integer towards zero.\r\n *\r\n * @return the value [x] having its fractional part truncated.\r\n *\r\n * Special cases:\r\n * - `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun truncate(x: Float): Float\r\n\r\n/**\r\n * Rounds the given value [x] towards the closest integer with ties rounded towards even integer.\r\n *\r\n * Special cases:\r\n * - `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun round(x: Float): Float\r\n\r\n\r\n/**\r\n * Returns the absolute value of the given value [x].\r\n *\r\n * Special cases:\r\n * - `abs(NaN)` is `NaN`\r\n *\r\n * @see absoluteValue extension property for [Float]\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun abs(x: Float): Float\r\n\r\n/**\r\n * Returns the sign of the given value [x]:\r\n * - `-1.0` if the value is negative,\r\n * - zero if the value is zero,\r\n * - `1.0` if the value is positive\r\n *\r\n * Special case:\r\n * - `sign(NaN)` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun sign(x: Float): Float\r\n\r\n\r\n\r\n/**\r\n * Returns the smaller of two values.\r\n *\r\n * If either value is `NaN`, then the result is `NaN`.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun min(a: Float, b: Float): Float\r\n\r\n/**\r\n * Returns the greater of two values.\r\n *\r\n * If either value is `NaN`, then the result is `NaN`.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun max(a: Float, b: Float): Float\r\n\r\n// extensions\r\n\r\n\r\n/**\r\n * Raises this value to the power [x].\r\n *\r\n * Special cases:\r\n * - `b.pow(0.0)` is `1.0`\r\n * - `b.pow(1.0) == b`\r\n * - `b.pow(NaN)` is `NaN`\r\n * - `NaN.pow(x)` is `NaN` for `x != 0.0`\r\n * - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\r\n * - `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun Float.pow(x: Float): Float\r\n\r\n/**\r\n * Raises this value to the integer power [n].\r\n *\r\n * See the other overload of [pow] for details.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun Float.pow(n: Int): Float\r\n\r\n/**\r\n * Returns the absolute value of this value.\r\n *\r\n * Special cases:\r\n * - `NaN.absoluteValue` is `NaN`\r\n *\r\n * @see abs function\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect val Float.absoluteValue: Float\r\n\r\n/**\r\n * Returns the sign of this value:\r\n * - `-1.0` if the value is negative,\r\n * - zero if the value is zero,\r\n * - `1.0` if the value is positive\r\n *\r\n * Special case:\r\n * - `NaN.sign` is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect val Float.sign: Float\r\n\r\n/**\r\n * Returns this value with the sign bit same as of the [sign] value.\r\n *\r\n * If [sign] is `NaN` the sign of the result is undefined.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun Float.withSign(sign: Float): Float\r\n\r\n/**\r\n * Returns this value with the sign bit same as of the [sign] value.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun Float.withSign(sign: Int): Float\r\n\r\n\r\n/**\r\n * Rounds this [Float] value to the nearest integer and converts the result to [Int].\r\n * Ties are rounded towards positive infinity.\r\n *\r\n * Special cases:\r\n * - `x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`\r\n * - `x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`\r\n *\r\n * @throws IllegalArgumentException when this value is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun Float.roundToInt(): Int\r\n\r\n/**\r\n * Rounds this [Float] value to the nearest integer and converts the result to [Long].\r\n * Ties are rounded towards positive infinity.\r\n *\r\n * Special cases:\r\n * - `x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`\r\n * - `x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE`\r\n *\r\n * @throws IllegalArgumentException when this value is `NaN`\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun Float.roundToLong(): Long\r\n\r\n\r\n// endregion\r\n\r\n\r\n// region ================ Integer Math ==\r\n\r\n\r\n\r\n/**\r\n * Returns the absolute value of the given value [n].\r\n *\r\n * Special cases:\r\n * - `abs(Int.MIN_VALUE)` is `Int.MIN_VALUE` due to an overflow\r\n *\r\n * @see absoluteValue extension property for [Int]\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun abs(n: Int): Int\r\n\r\n/**\r\n * Returns the smaller of two

values.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun min(a: Int, b: Int): Int\r\n\r\n/**\r\n * Returns the greater of two values.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun max(a: Int, b: Int): Int\r\n\r\n/**\r\n * Returns the absolute value of this value.\r\n *\r\n * Special cases:\r\n *   - `Int.MIN_VALUE.absoluteValue` is `Int.MIN_VALUE` due to an overflow\r\n *\r\n * @see abs function\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect val Int.absoluteValue: Int\r\n\r\n/**\r\n * Returns the sign of this value:\r\n *   - `-1` if the value is negative,\r\n *   - `0` if the value is zero,\r\n *   - `1` if the value is positive\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect val Int.sign: Int\r\n\r\n\r\n\r\n/**\r\n * Returns the absolute value of the given value [n].\r\n *\r\n * Special cases:\r\n *   - `abs(Long.MIN_VALUE)` is `Long.MIN_VALUE` due to an overflow\r\n *\r\n * @see absoluteValue extension property for [Long]\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun abs(n: Long): Long\r\n\r\n/**\r\n * Returns the smaller of two values.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun min(a: Long, b: Long): Long\r\n\r\n/**\r\n * Returns the greater of two values.\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect fun max(a: Long, b: Long): Long\r\n\r\n/**\r\n * Returns the absolute value of this value.\r\n *\r\n * Special cases:\r\n *   - `Long.MIN_VALUE.absoluteValue` is `Long.MIN_VALUE` due to an overflow\r\n *\r\n * @see abs function\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect val Long.absoluteValue: Long\r\n\r\n/**\r\n * Returns the sign of this value:\r\n *   - `-1` if the value is negative,\r\n *   - `0` if the value is zero,\r\n *   - `1` if the value is positive\r\n */\r\n@SinceKotlin(\"1.2\")\r\npublic expect val Long.sign: Int\r\n\r\n\r\n// endregion\r\n",null,null,null,null,null,null,null,null,null],"names":[],"mappings":"AAWC,0B;EAVG,IAAI,OAAO,MAAO,KAAI,UAAW,IAAG,MAAM,IAA1C,C;IACI,MAAM,CAAC,QAAD,EAAW,CAAC,SAAD,CAAX,EAAwB,OAAxB,C;;QAEL,IAAI,OAAO,OAAQ,KAAI,QAAvB,C;IACD,OAAO,CAAC,MAAM,QAAP,C;;;IAGP,IAAI,OAAQ,GAAE,E;IACd,OAAO,CAAC,IAAI,OAAL,C;;AAEf,CAAC,CAAC,IAAD,oB;EACG,IAAI,IAAI,M;ECPZ,MAAM,eAAgB,gB;IAClB,OAAoD,CAA5C,KAAK,QAAQ,CAAC,CAAD,CAAI,IAAG,CAAE,YAAW,SAAW,KAAG,CAAC,OAAQ,KAAI,c;EACxE,C;EAEA,MAAM,YAAa,gB;IACf,OAAO,CAAE,YAAW,SAAU,IAAG,CAAC,OAAQ,KAAI,c;EAClD,C;EAEA,MAAM,aAAc,gB;IAChB,OAAO,CAAE,YAAW,U;EACxB,C;EAEA,MAAM,YAAa,gB;IACf,OAAO,CAAE,YAAW,WAAY,IAAG,CAAC,OAAQ,KAAI,W;EACpD,C;EAEA,MAAM,WAAY,gB;IACd,OAAO,CAAE,YAAW,U;EACxB,C;EAEA,MAAM,aAAc,gB;IAChB,OAAO,CAAE,YAAW,Y;EACxB,C;EAEA,MAAM,cAAe,gB;IACjB,OAAO,CAAE,YAAW,Y;EACxB,C;EAEA,MAAM,YAAa,gB;IACf,OAAO,KAAK,QAAQ,CAAC,CAAD,CAAI,IAAG,CAAC,OAAQ,KAAI,W;EAC5C,C;EAEA,MAAM,QAAS,gB;IACX,OAAO,KAAK,QAAQ,CAAC,CAAD,CAAI,IAAG,CAAC,CAAC,O;EACjC,C;EAEA,MAAM,WAAY,gB;IACd,OAAO,KAAK,QAAQ,CAAC,CAAD,CAAI,IAAG,WAAW,OAAO,CAAC,CAAD,C;EACjD,C;EAEA,MAAM,cAAe,gB;IACjB,IAAI,WAAW,MAAM,YAAY,CAAC,CAAD,CAAI,GAAE,MAAM,aAAR,GAAwB,MAAM,S;IACnE,OAAO,GAAI,GAAE,KAAK,UAAU,IAAI,KAAK,CAAC,CAAD,e;MAAkB,OAAO,QAAQ,CAAC,CAAD,C;IAAK,CAAtC,CAAwC,KAAK,CAAC,IAAD,CAAO,GAAE,G;EAC/F,C;EAEA,MAAM,kBAAmB,kB;IACrB,OAAO,MAAM,OAAO,YAAY,wBAAwB,CAAC,GAAD,C;EAC5D,C;EAEA,MAAM,YAAa,mB;IACf,IAAI,CAAE,KAAI,CAAV,C;MACI,OAAO,I;;IAEX,IAAI,CAAC,MAAM,WAAW,CAAC,CAAD,CAAI,IAAG,CAAC,OAAQ,KAAI,CAAC,OAA3C,C;MACI,OAAO,K;;IAGX,KAAK,IAAI,IAAI,CAAR,EAAW,IAAI,CAAC,OAArB,EAA8B,CAAE,GAAE,CAAlC,EAAqC,CAAC,EAAtC,C;MACI,IAAI,CAAC,MAAM,OAAO,CAAC,CAAC,CAAC,CAAD,CAAF,EAAO,CAAC,CAAC,CAAD,CAAR,CAAlB,C;QACI,OAAO,K;;;IAGf,OAAO,I;EACX,C;EAEA,MAAM,gBAAiB,mB;IACnB,OAAO,MAAM,OAAO,YAAY,sBAAsB,CAAC,CAAD,EAAI,CAAJ,C;EAC1D,C;EAEA,MAAM,cAAe,kB;IACjB,IAAI,SAAS,C;IACb,KAAK,IAAI,IAAI,CAAR,EAAW,IAAI,GAAG,OAAvB,EAAgC,CAAE,GAAE,CAAtC,EAAyC,EAAxC,C;MACI,MAAO,GAAqB,CAAjB,EAAG,GAAE,MAAO,GAAE,CAAG,IAAE,MAAM,SAAS,CAAC,GAAG,CAAC,CAAD,CAAJ,CAAU,GAAE,C;;IAE7D,OAAO,M;EACX,C;EAEA,MAAM,kBAAmB,kB;IACrB,OAAO,MAAM,OAAO,YAAY,wBAAwB,CAAC,GAAD,C;EAC5D,C;EAEA,MAAM,mBAAoB,oB;IACtB,KAAK,KAAK,CAAC,MAAM,gBAAP,C;EACd,C;ECnFA,MAAM,eAAgB,sB;IAClB,CAAC,aAAc,GAAE,I;IACjB,OAAO,C;EACX,C;EAEA,MAAM,uBAAwB,+C;IAC1B,MAAM,IAAK,GAAE,M;IACb,MAAM,IAAK,GAAE,M;IACb,MAAM,aAAc,GAAE,I;IACtB,OAAO,mBAAmB,CAAC,MAAD,EAAS,MAAT,EAAiB,6BAA6B,CAAC,UAAD,CAAa,CAA9C,C;EAC9B,C;;IAGI,GAAG,WAAY,GAAE,sBAAsB,CAAC,OAAO,MAAO,KAAI,UAAW,GAAE,KAAK,QAAQ,GAAkB,KAAK,UAArD,C;IACvC,GAAG,YAAa,GAAE,G;IAClB,OAAO,G;EACX,C;EAEA,IAAI,gBAAgC,CAAhC,UAAgC,CAAa,QAAS,IAAT,oC;IACL,OAAO,MAAM,OAAO,QAAQ,kB;EAAmB,CA

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G/C,OAsGO,W;MArGX,C;KAPA,C;kGASA,yB;MAAA,+D;MAAA,uC;QAMW,kBAAgB,gB;QA+8OV,gB;QAD
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Aw2O2B,IAx2O3B,CAAJ,C;YAA2C,sBAw2OZ,IAx2OY,C;;QAvG/C,OAyGO,W;MAxGX,C;KAPA,C;kGASA,y
B;MAAA,+D;MAyGA,gC;MAs2OA,oC;MA/8OA,uC;QAMW,kBAAgB,gB;QAg9OV,gB;QADb,YAAY,C;QACZ,
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U,OAAV,EAAiB,OAAjB,CAAJ,C;YAA2C,sBAAI,OAAJ,C;;QA1G/C,OA4GO,W;MA3GX,C;KAPA,C;;MAs4Oi
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KALA,C;wFAOA,yB;MAAA,wD;Me1rKA,sC;MCjFA,kC;MAAA,oC;;QAAsG,4C;MAAtG,C;MAAA,6D;QAC4C
,+BAAW,CAAX,EAAc,CAAd,C;MAAA,C;MAD5C,kF;MDiFA,uBAOe,yB;QArEf,8D;;UAqEe,uB;YAAU,eAAsB
,gB;YAAtB,OA5Dd,cAAc,SA4DgB,CA5DhB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;UA4DI,C;QAAA,C;OA
AA,C;MfmrKf,sC;QAII,OAAO,mDevrKI,iBfurKiB,QevrKjB,CfurKJ,E;MACX,C;KALA,C;wFAOA,yB;MAAA,w
D;MejsKA,sC;MCjFA,kC;MAAA,oC;;QAAsG,4C;MAAtG,C;MAAA,6D;QAC4C,+BAAW,CAAX,EAAc,CAAd,
C;MAAA,C;MAD5C,kF;MDiFA,uBAOe,yB;QArEf,8D;;UAqEe,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA
4DgB,CA5DhB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;UA4DI,C;QAAA,C;OAAA,C;Mf0rKf,sC;QAII,OAA

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AAA,oC;;QAAsG,4C;MAAtG,C;MAAA,6D;QAC4C,+BAAW,CAAX,EAAc,CAAd,C;MAAA,C;MAD5C,kF;MDi
FA,uBAOe,yB;QArEf,8D;;UAqEe,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DgB,CA5DhB,CAAd,EAA2
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,CfqsKJ,E;MACX,C;KALA,C;wFAOA,yB;MAAA,wD;Me/sKA,sC;MCjFA,kC;MAAA,oC;;QAAsG,4C;MAAtG,
C;MAAA,6D;QAC4C,+BAAW,CAAX,EAAc,CAAd,C;MAAA,C;MAD5C,kF;MDiFA,uBAOe,yB;QArEf,8D;;UA
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;Mf+sKf,sC;QAII,OAAO,mDentKI,iBfmtKiB,QentKjB,CfmtKJ,E;MACX,C;KALA,C;wFAOA,yB;MAAA,wD;Me
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AA,C;MAD5C,kF;MDiFA,uBAOe,yB;QArEf,8D;;UAqEe,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DgB,
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J,E;MACX,C;KALA,C;0GAOA,yB;MAAA,wD;MextKA,sC;MCpGA,kC;MAAA,oC;;QAAsG,4C;MAAtG,C;MA
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AT,C;YACA,e;;;YAEA,c;;UP0vQA,iB;UACA,IAAK,WA3RyD,cA2RrD,CAAe,OAAf,CAAJ,C;;QA3RT,OA6RO,
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B,GOlxQxB,C;UACL,IAAI,aAAJ,C;YACH,aPgxQuC,gB;YAA5B,WO/wQX,aP+wQgC,GO/wQhC,EAAS,MAAT,
C;YACA,e;;;YAEA,c;;UP4wQA,iB;UACA,IAAK,WAhSyD,cAgSrD,CAAe,OAAf,CAAJ,C;;QAhST,OAkSO,W;M
AjSX,C;KAXA,C;uFAaA,yB;MAAA,wE;MAkSA,+D;MAlSA,yD;QAUW,kBAAU,oB;QAkSD,Q;QAAhB,iD;UA
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yQxB,C;UACL,IAAI,aAAJ,C;YACH,aPkyQuC,gB;YAA5B,WOjyQX,aPiyQgC,GOjyQhC,EAAS,MAAT,C;YAC
A,e;;;YAEA,c;;UP8xQA,iB;UACA,IAAK,WArSyD,cAqSrD,CAAe,OAAf,CAAJ,C;;QArST,OAuSO,W;MAtSX,C;
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AEA,c;;UPgzQA,iB;UACA,IAAK,WA1SyD,cA0SrD,CAAe,OAAf,CAAJ,C;;QA1ST,OA4SO,W;MA3SX,C;KAX
A,C;uFAaA,yB;MAAA,wE;MA4SA,+D;MA5SA,yD;QAUW,kBAAU,oB;QA4SD,Q;QAAhB,iD;UAAgB,cAAhB,
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CL,IAAI,aAAJ,C;YACH,aPs0QuC,gB;YAA5B,WOr0QX,aPq0QgC,GOr0QhC,EAAS,MAAT,C;YACA,e;;;YAEA,
c;;UPk0QA,iB;UACA,IAAK,WA/SyD,cA+SrD,CAAe,OAAf,CAAJ,C;;QA/ST,OAiTO,W;MAhTX,C;KAXA,C;uF
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QA,iB;UACA,IAAK,WApTyD,cAoTrD,CAAe,OAAf,CAAJ,C;;QApTT,OAsTO,W;MArTX,C;KAXA,C;uFAaA,y
B;MAAA,wE;MAsTA,oC;MAAA,+D;MAAA,gC;MAtTA,yD;QAUW,kBAAU,oB;QAsTD,Q;QAAhB,iD;UAAgB,
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A,e;;;YAEA,c;;UPs2QA,iB;UACA,IAAK,WAzTyD,cAyTrD,CAAe,oBAAf,CAAJ,C;;QAzTT,OA2TO,W;MA1TX,
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AJ,C;YACH,aPgkQuC,gB;YAA5B,WO/jQX,aP+jQgC,GO/jQhC,EAAS,MAAT,C;YACA,e;;;YAEA,c;;UP4jQA,iB
;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;MACX,C;KAfA,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,
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X,C;KAfA,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAh
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AO,W;MACX,C;KAfA,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,c
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EA,c;;UPgoQA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;MACX,C;KAfA,C;0FAiBA,yB;MAAA,+D;M
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ET,OAAO,W;MACX,C;KAfA,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;U
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,e;;;YAEA,c;;UPkqQA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;MACX,C;KAfA,C;0FAiBA,yB;MAA
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C,GOvsQhC,EAAS,MAAT,C;YACA,e;;;YAEA,c;;UPosQA,iB;UACA,IAAK,WAAI,oBAAJ,C;;QAET,OAAO,W;
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QA,iB;UACA,IAAK,WAAI,eAAe,OAAf,CAAJ,C;;QAET,OAAO,W;MACX,C;KAhBA,C;0FAkBA,yB;MAAA,+
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A,c;;UPk0QA,iB;UACA,IAAK,WAAI,eAAe,OAAf,CAAJ,C;;QAET,OAAO,W;MACX,C;KAhBA,C;2FAkBA,yB;
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,C;YACA,e;;;YAEA,c;;UY67BA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;MACX,C;KAfA,C;2FAiBA,
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BAA8D,I;;QR8sBvE,qB;UQ9sBD,MR8sBqC,WAAI,SAAJ,C;;MQ9sB1D,OAAqB,M;IACzB,C;;MAWI,aAAa,qB
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GAUA,yB;MAAA,sC;MF3aA,+B;ME2aA,0BAOgC,yB;QFlbhC,+B;;UEkbgC,qB;YAAE,yBFxaQ,eEwaE,EFxaF,C
EwaR,C;UAAF,C;QAAA,C;OAAA,C;MAPhC,uC;QAOmB,kBAAR,iB;QAAQ,uB;;UpC6rBf,0D;YACI,IoC9rB0B
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E;;;QoClsBP,0B;MACJ,C;KARA,C;iGAUA,yB;MAAA,sC;MlCteA,+B;MkCseA,0BAOgC,yB;QlC7ehC,+B;;UkC
6egC,qB;YAAE,yBlCneQ,ekCmeE,ElCneF,CkCmeR,C;UAAF,C;QAAA,C;OAAA,C;MAPhC,uC;QAOmB,kBAA
R,iB;QAAQ,uB;;UpC+oBf,0D;YACI,IoChpB0B,UlCneQ,eFmnCpB,YAAK,KAAL,CEnnCoB,CkCmeR,CpCgpB1
B,C;cACI,sBAAO,K;cAAP,wB;;;UAGR,sBAAO,E;;;QoCppBP,0B;MACJ,C;KARA,C;iGAUA,yB;MAAA,sC;Mh
CneA,iC;MgCmeA,0BAOgC,yB;QhC1ehC,iC;;UgC0egC,qB;YAAE,yBhCheW,gBgCgeD,EhCheC,CgCgeX,C;UA
AF,C;QAAA,C;OAAA,C;MAPhC,uC;QAOmB,kBAAR,iB;QAAQ,uB;;UpCipBf,0D;YACI,IoClpB0B,UhCheW,g
BJknCvB,YAAK,KAAL,CIlnCuB,CgCgeX,CpCkpB1B,C;cACI,sBAAO,K;cAAP,wB;;;UAGR,sBAAO,E;;;QoCtp
BP,0B;MACJ,C;KARA,C;+FAUA,yB;MAAA,sC;MpCkwBA,0D;MAAA,+C;MG1tCA,6B;MiCwdA,yBAO+B,yB;
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AOmB,kBAAR,iB;QAAQ,sB;;UpC+vBD,Q;UAAA,OAAQ,SAAR,wBAAQ,CAAR,W;UAAd,OAAc,cAAd,C;YA
Ac,uB;YACV,IoChwByB,UjCrdM,cHqtCjB,YAAK,KAAL,CGrtCiB,CiCqdN,CpCgwBzB,C;cACI,qBAAO,K;cAA
P,uB;;;UAGR,qBAAO,E;;;QoCpwBP,yB;MACJ,C;KARA,C;+FAUA,yB;MAAA,sC;MpCowBA,0D;MAAA,+C;M
kCvtCA,+B;MEmdA,yBAO+B,yB;QF1d/B,+B;;UE0d+B,qB;YAAE,yBFhdS,eEgdC,EFhdD,CEgdT,C;UAAF,C;Q
AAA,C;OAAA,C;MAP/B,uC;QAOmB,kBAAR,iB;QAAQ,sB;;UpCiwBD,Q;UAAA,OAAQ,SAAR,wBAAQ,CAA
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CmtBD,Q;UAAA,OAAQ,SAAR,wBAAQ,CAAR,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,IoCptByB,UlC3gBS
,eF+tCpB,YAAK,KAAL,CE/tCoB,CkC2gBT,CpCotBzB,C;cACI,qBAAO,K;cAAP,uB;;;UAGR,qBAAO,E;;;QoCxt
BP,yB;MACJ,C;KARA,C;+FAUA,yB;MAAA,sC;MpCwtBA,0D;MAAA,+C;MInuCA,iC;MgC2gBA,yBAO+B,yB;
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A,C;iFAeA,yB;MAAA,+C;MAAA,iE;MA+4EI,0D;MA/4EJ,uC;QAQkB,Q;QAAA,OAAa,SAu4EX,YAv4EF,SAu4
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GkB,sBAhhGlB,WAghG2B,IAhhG3B,CAAJ,C;YAA2C,sBAghGZ,IAhhGY,C;;QAvD/C,OAyDO,W;MAxDX,C;K
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,wCAAiB,yBAAgB,cAAhB,EAAsB,eAAtB,EAA8B,cAAD,aAA7B,C;IAC5B,C;;MAQI,oBAAoB,OAAO,CAA3B,
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B,C;MACA,OAAO,wCAAiB,yBAAgB,eAAhB,EAAuB,cAAvB,EAAiC,SAAK,KAAL,cAAY,CAAhB,GAAmB,I
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MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAA
F,IAAgB,Q;MAEhB,OAAO,C;IACX,C;;MC/CwC,oB;QAAA,OAAiB,I;MAAM,sB;QAAA,SAAmB,K;MAAO,uB;
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QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;MAEf,OAAO,C;IACX,C;;MAuFuF,iB
AAY,KAAZ,C;IAAA,C;;MACe,UAAY,KAAZ,IAAqB,O;IAAS,C;;MAgBxC,iBAAY,KAAZ,C;IAAA,C;;MACc,U
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A,C;;MACc,UAAY,KAAZ,IAAqB,O;IAAS,C;;MAmHpD,iBAAY,KAAZ,C;IAAA,C;;MACc,UAAY,KAAZ,IAAq
B,O;IAAS,C;;MH/exG,sB;QAAA,SAAkB,S;MAAW,uB;QAAA,UAAmB,S;MAAW,oB;QAAA,OAAgB,S;MAA
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F,IAAe,O;MACf,EAAE,MAAF,IAAY,I;MACZ,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,gBAAF,IAAsB,c;MACt
B,EAAE,MAAF,IAAY,I;MACZ,EAAE,aAAF,IAAmB,W;MACnB,EAAE,OAAF,IAAa,K;MACb,EAAE,UAAF,IA
AgB,Q;MAChB,EAAE,WAAF,IAAiB,S;MACjB,EAAE,WAAF,IAAiB,S;MACjB,EAAE,QAAF,IAAc,Q;MAEd,O
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ChG,QAAQ,E;MAER,EAAE,QAAF,IAAc,M;MACd,EAAE,YAAF,IAAkB,U;MAClB,EAAE,SAAF,IAAe,O;MA
Ef,OAAO,C;IACX,C;;MAMmE,OAAG,E;IAAH,C;;MACA,OAAQ,O;IAAR,C;;MACD,OAAO,M;IAAP,C;;MAC
C,OAAQ,O;IAAR,C;;MACC,OAAS,Q;IAAT,C;;MACD,OAAQ,O;IAAR,C;;MACA,OAAQ,O;IAAR,C;;MACA,O
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AO,M;IAAP,C;;MACC,OAAQ,O;IAAR,C;;MACG,OAAW,U;IAAX,C;;MACH,OAAQ,O;IAAR,C;;MACC,OAAS
,Q;IAAT,C;;MACA,OAAS,Q;IAAT,C;;MACA,OAAS,Q;IAAT,C;;MACO,OAAgB,e;IAAhB,C;;MACD,OAAe,c;I
AAf,C;;MACP,OAAQ,O;IAAR,C;;MACC,OAAS,Q;IAAT,C;;MACF,OAAO,M;IAAP,C;;MAMV,OAAW,U;IAA
X,C;;MACG,OAAc,a;IAAd,C;;MACJ,OAAU,S;IAAV,C;;MACH,OAAO,M;IAAP,C;;MAMc,OAAO,M;IAAP,C;;
MACO,OAAc,a;IAAd,C;;MACJ,OAAU,S;IAAV,C;;MAMZ,OAAU,S;IAAV,C;;MACC,OAAW,U;IAAX,C;;MAC
F,OAAS,Q;IAAT,C;;MACE,OAAW,U;IAAX,C;;MACG,OAAc,a;IAAd,C;;MACG,OAAiB,gB;IAAjB,C;;MAMF,
OAAS,Q;IAAT,C;;MACD,OAAQ,O;IAAR,C;;MACC,OAAS,Q;IAAT,C;;MAMP,OAAQ,O;IAAR,C;;MACD,OA
AO,M;IAAP,C;;MACG,OAAU,S;IAAV,C;;MACF,OAAQ,O;IAAR,C;;MACC,OAAS,Q;IAAT,C;;MACQ,OAAiB,
gB;IAAjB,C;;MI1N5C,oB;QAAA,OAAgB,E;MAC9C,QAAQ,E;MAER,EAAE,MAAF,IAAY,I;MAEZ,OAAO,C;I
ACX,C;;MAiBkC,4B;QAAA,eAAqB,S;MAAW,oB;QAAA,OAAgB,E;MAC9E,QAAQ,E;MAER,EAAE,cAAF,IA
AoB,Y;MACpB,EAAE,MAAF,IAAY,I;MAEZ,OAAO,C;IACX,C;;MASkF,iBAAY,KAAZ,C;IAAA,C;;MC+B5C,
mB;QAAA,MAAwGuD,M;;MAxGG,oB;QAAA,OAAgB,E;MAAI,oB;QAAA,OAAgB,E;MAAI,mB;QAAA,MAAe,
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CX,EAAE,MAAF,IAAY,I;MACZ,EAAE,MAAF,IAAY,I;MACZ,EAAE,KAAF,IAAW,G;MACX,EAAE,OAAF,IA
Aa,K;MACb,EAAE,MAAF,IAAY,I;MACZ,EAAE,OAAF,IAAa,K;MACb,EAAE,OAAF,IAAa,K;MACb,EAAE,S
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ACd,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,oBAAF,IAA0B,kB;MAC1B,EAAE,QAAF,IAAc,M;MACd,EAAE,
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AQ,E;MAER,EAAE,QAAF,IAAc,M;MACd,EAAE,OAAF,IAAa,K;MACb,EAAE,MAAF,IAAY,I;MAEZ,OAAO,

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C;IACX,C;;MASyC,mB;QAAA,MAAe,E;MACpD,QAAQ,E;MAER,EAAE,KAAF,IAAW,G;MAEX,OAAO,C;IA
CX,C;;MAoBqE,sB;QAAA,SAAkB,E;MAAI,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QA
AA,WAAqB,K;MACrK,QAAQ,E;MAER,EAAE,cAAF,IAAoB,Y;MACpB,EAAE,QAAF,IAAc,M;MACd,EAAE,S
AAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAEhB,OAAO,C;IACX,C;;MAM
2F,OAAU,S;IAAV,C;;MACD,OAAS,Q;IAAT,C;;MACC,OAAU,S;IAAV,C;;MAML,OAAO,M;IAAP,C;;MACD,
OAAM,K;IAAN,C;;MACA,OAAM,K;IAAN,C;;MC9H/C,qB;QAAA,QAAiB,S;MAAW,oB;QAAA,OP4qIW,S;;M
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D,oB;QAAA,OAAa,S;MAAW,sB;QAAA,SAAkB,S;MAAW,2B;QAAA,cAAuB,S;MAAW,sB;QAAA,SAA2C,S;
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AAqB,K;MAC/S,QAAQ,E;MAER,EAAE,MAAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,aAAF,IA
AmB,W;MACnB,EAAE,QAAF,IAAc,M;MACd,EAAE,OAAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAA
E,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAEhB,OAAO,C;IACX,C;;MA0CqC,mC;QAAA,sBAAgC,
K;MAAO,oB;QAAA,OAuSD,Q;;MAtSvE,QAAQ,E;MAER,EAAE,qBAAF,IAA2B,mB;MAC3B,EAAE,MAAF,IA
AY,I;MAEZ,OAAO,C;IACX,C;;MAasC,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,
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F,IAAgB,Q;MAEhB,OAAO,C;IACX,C;;MAoBI,QAAQ,E;MAER,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IA
Ae,O;MAEf,OAAO,C;IACX,C;;MAyBoD,wB;QAAA,WAAoB,I;MAAM,wB;QAAA,WAAqB,K;MAAO,uB;QAA
A,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACpL,QAAQ,E;MAER,EAAE,SAA
F,IAAe,O;MACf,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,SAAF,IAAe,O;MACf,
EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAEhB,OAAO,C;IACX,C;;MAkB2D,sB;QAAA,SAAk
B,M;MAAQ,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAC/J,QAAQ,E
;MAER,EAAE,SAAF,IAAe,O;MACf,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,I
AAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAEhB,OAAO,C;IACX,C;;MAe4D,sB;QAAA,SAAkB,S;MAAW,uB;
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E,SAAF,IAAe,O;MAEf,OAAO,C;IACX,C;;MAgC6C,oB;QAAA,OAAa,S;MAAW,sB;QAAA,SAAkB,S;MAAW,2
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ACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,aAAF,IAAmB,W;MACnB,EAAE,QAAF,IAAc,M;MACd,EAAE,OAA
F,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAEhB,
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ACpB,EAAE,YAAF,IAAkB,U;MAClB,EAAE,WAAF,IAAiB,S;MAEjB,OAAO,C;IACX,C;;MAkBsC,oB;QAAA,
OAAgB,S;MAAW,uB;QAAA,UAAoB,S;MAAW,wB;QAAA,WAAsB,S;MAAW,uB;QAAA,UAA8B,S;MAC3J,Q
AAQ,E;MAER,EAAE,MAAF,IAAY,I;MACZ,EAAE,SAAF,IAAe,O;MACf,EAAE,UAAF,IAAgB,Q;MAChB,EA
AE,SAAF,IAAe,O;MAEf,OAAO,C;IACX,C;;MAuBsF,OAAa,Y;IAAb,C;;MACD,OAAY,W;IAAZ,C;;MACC,OA
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Y,W;IAAZ,C;;MACH,OAAS,Q;IAAT,C;;MACF,OAAO,M;IAAP,C;;MAMI,OAAS,Q;IAAT,C;;MACA,OAAS,Q;
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AE,OAAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;
MAEhB,OAAO,C;IACX,C;;MAMiG,OAAG,E;IAAH,C;;MACM,OAAc,a;IAAd,C;;MACP,OAAO,M;IAAP,C;;M
ACI,OAAW,U;IAAX,C;;MACJ,OAAO,M;IAAP,C;;MACA,OAAO,M;IAAP,C;;MC7G3D,qB;QAAA,8C;MAAA,k
B;IAAD,C;;MAChC,e;MAAA,iB;MAAA,uB;IAAA,C;;MAAA,4C;MAAA,C;MAKI,0E;MAEA,sE;IAPJ,C;;;MAKI
,+B;MAAA,0C;IAAA,C;;;MAEA,+B;MAAA,wC;IAAA,C;;;MAPJ,yF;IAAA,C;;;MAAA,a;aAAA,S;UAAA,+C;aA
AA,O;UAAA,6C;gBAAA,8D;;IAAA,C;;;;MAyBA,8B;IADmC,C;;;MAQnC,8B;IADqC,C;;;ICxDzC,C;;;ICMA,C;;;
ICCA,C;;;IA0BA,C;;;ICvBgD,C;;MAIiB,c;;Q5Hq8C7C,Q;QADhB,IAAI,mCAAsB,cAA1B,C;UAAqC,aAAO,K;U
AAP,e;;QACrB,sB;QAAhB,OAAgB,cAAhB,C;UAAgB,2B;UAAM,I4Hr8C6C,O5Hq8C/B,S4Hr8C+B,U5Hq8C7C,
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C;YAAwB,aAAO,I;YAAP,e;;;QAC9C,aAAO,K;;;M4Ht8CsD,iB;IAAA,C;;MAGhD,c;;Q5H66CG,Q;QADhB,IAAI
,c4H56CA,Q5H46CA,iB4H56CA,Q5H46CsB,UAA1B,C;UAAqC,aAAO,I;UAAP,e;;QACrB,O4H76CZ,Q5H66CY
,W;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,C4H76CP,oB5H66CkB,O4H76ClB,C5H66CG,C;YAAy
B,aAAO,K;YAAP,e;;;QAC/C,aAAO,I;;;M4H96CH,iB;IAAA,C;;MAE8B,qBAAQ,C;IAAR,C;;MAE6B,qB;QAC3
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MACI,4C;MACA,kD;MACA,0C;MACA,8C;IAJJ,C;;;MACI,kB;MAAA,2B;IAAA,C;;;MACA,kB;MAAA,8B;IAA
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,2BAA4B,I;IANhC,C;;MAUqB,IAAN,I;MnIUX,IAAI,EmIXQ,mDnIWR,CAAJ,C;QACI,cAda,qB;QAeb,MAAM,g
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mD;MAEA,OAAO,2F;IACX,C;;MAGI,iD;MACA,kB;MACA,OAAO,kD;IACX,C;;MAkBI,2BAAY,K;MACZ,gD;
IACJ,C;;MAMI,+C;IACJ,C;;;MCiCA,oC;MApFgE,6B;IAA1B,C;;MAIC,0C;IAAA,C;;MAEiB,uB;;Q9HmR3C,Q;Q
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AEU,+CAAiB,KAAjB,C;IAAA,C;;MAEK,gCAAQ,IAAR,EAAc,SAAd,EAAyB,OAAzB,C;IAAA,C;;MAE8C,uB;
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C,C;MACA,eAAa,UAAU,gBAAV,I;IALO,C;;MASpB,+DAAkB,KAAlB,EAAyB,YAAzB,C;MAEA,OAAO,wBA
AK,mBAAY,KAAZ,IAAL,C;IACX,C;;MAE+B,mB;IAAA,C;;;MAS/B,IAAI,UAAU,IAAd,C;QAAoB,OAAO,I;M
AC3B,IAAI,2BAAJ,C;QAAuB,OAAO,K;MAE9B,OAAO,2DAAc,IAAd,EAAoB,KAApB,C;IACX,C;;MAK+B,oE
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X,IAAI,CAAC,cAAL,C;QAAgB,MAAM,6B;MACX,iE;MAAX,OAAO,+B;IACX,C;;;MAGJ,oB;MAGwD,iD;MA
GhD,gEAAmB,KAAnB,EAA0B,WAAkB,KAA5C,C;MACA,eAAa,K;IAJoB,C;;MAOC,sBAAQ,C;IAAR,C;;MAE
N,mB;IAAA,C;;MAG5B,IAAI,CAAC,kBAAL,C;QAAoB,MAAM,6B;MAC1B,OAAO,yBAAI,mCAAJ,EAAI,YA
AJ,E;IACX,C;;MAEoC,sBAAQ,CAAR,I;IAAA,C;;;MAGxC,sC;IAAA,C;;MAEQ,IAAI,QAAQ,CAAR,IAAa,SAA
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B,cAAU,U;IAC5C,C;;;MATmC,uD;IAAA,C;;;MAevC,0B;MACA,gC;MACA,0B;IAHJ,C;;MAK2C,sD;MACnC,g
BAAe,kCAAS,W;MACxB,oBAAiC,I;IAFE,C;;MAK/B,IAAI,CAAC,2BAAL,C;QACI,MAAM,6B;MACV,OAAO,
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nB,OAAO,yBAAP,C;QACI,IAAI,CAAC,aAAS,UAAd,C;UACI,OAAO,K;;;UAEP,cAAc,aAAS,O;UACvB,uBAAu
B,wCAAS,2CAAY,OAAZ,CAAT,C;UACvB,IAAI,gBAAiB,UAArB,C;YACI,oBAAe,gB;YACf,OAAO,I;;;;MAIn
B,OAAO,I;IACX,C;;;MA/BmC,0D;IAAA,C;;;;;;MAgDvC,0B;MACA,8B;MACA,0B;MC5QA,IAAI,EDgRQ,qBA
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DiRQ,mBAAY,CCjRpB,CAAJ,C;QACI,gBDgRyB,6CAA0C,e;QC/QnE,MAAM,gCAAyB,SAAQ,WAAjC,C;;MA
FV,IAAI,EDkRQ,mBAAY,iBClRpB,CAAJ,C;QACI,gBDiRkC,0DAAuD,eAAvD,WAAmE,iB;QChRrG,MAAM,g
CAAyB,SAAQ,WAAjC,C;;IDuQe,C;;MAYM,yBAAW,iBAAX,I;IAAA,C;;MAEU,OAAI,KAAK,YAAT,GAAgB,
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IAFW,C;;MAK/B,IAAI,cAAQ,CAAZ,C;QACI,MAAM,6B;MACV,6B;MACA,OAAO,aAAS,O;IACpB,C;;MAGI,
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BAAa,EAAjB,C;QACI,iB;MACJ,OAAO,mBAAa,C;IACxB,C;;;MAnCmC,yD;IAAA,C;;;MA4CvC,0B;MACA,oB;
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ACT,6B;;IAER,C;;MAGI,a;MACA,OAAO,aAAS,O;IACpB,C;;MAGI,a;MACA,OAAO,aAAS,U;IACpB,C;;;MAp
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B,wB;IAAD,C;;MACpB,oD;MACI,4B;IADJ,C;;;;MAAA,2D;QAAA,0C;;MAAA,oD;IAAA,C;;MAI0C,gBAAT,a;
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AwB,W0B3sUlD,c1B2sU+D,O0B3sU/D,C;;MsIqHyC,OhKulU9B,W;IgKvlU8B,C;;;;MC9ErC,MAAM,wBAAoB,s
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,2C;IAAA,C;;;MAL1E,sJ;IAAA,C;;;MAAA,a;aAAA,qB;UAAA,4D;aAAA,W;UAAA,kD;aAAA,S;UAAA,gD;gBA
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,sBACwC,gB;MACxC,uBACyC,gB;MACzC,kBACoC,gB;MACpC,cACgC,gB;MAChC,iBACmC,gB;MACnC,iB
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,cAAK,IAAK,KAAK,GAAW,CDgJ5C,cCtJ6B,KDsJnB,KAAL,GAAiB,GAAtB,CChJ4C,MAAX,IAAf,C;MANC,
C;KAFtD,C;0FAGA,yB;MC6IA,6B;MD7IA,wB;QAEuD,OAGF,cAAK,IAAK,KAAK,GAAW,CCiJ5C,cDpJ8B,K
CoJpB,KAAL,GAAiB,KAAtB,CDjJ4C,MAAX,IAAf,C;MAHE,C;KAFvD,C;0FAGA,yB;MAAA,6B;MAAA,wB;Q
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B;MAT7D,+B;MAxJA,wB;QAEuD,O+BAA,eAAW,C/B+J7B,eAAW,oBAAL,SAAK,CAAL,iBAAN,C+B/J6B,M
AAK,K/BAI,K+BAO,KAAX,CAAhB,C;M/BAA,C;KAFvD,C;4FAIA,yB;MDkIA,6B;MClIA,wB;QAEuD,OAMD,
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KAFvD,C;4FAGA,yB;MCgIA,6B;MDhIA,wB;QAEwD,OAGF,cAAK,IAAK,KAAK,GAAY,CCoI9C,cDvIgC,KCu
ItB,KAAL,GAAiB,KAAtB,CDpI8C,MAAZ,IAAf,C;MAHE,C;KAFxD,C;4FAGA,yB;MAAA,6B;MAAA,wB;QAE
sD,qBAAK,IAAK,KAAK,GAAM,KAAM,KAAZ,IAAf,C;MAAA,C;KAFtD,C;4FAGA,yB;MA2IA,kBAS6D,sB;M
AT7D,+B;MA3IA,wB;QAEwD,O+BAA,eAAW,C/BkJ9B,eAAW,oBAAL,SAAK,CAAL,iBAAN,C+BlJ8B,MAAK
,U/BAK,K+BAO,KAAZ,CAAhB,C;M/BAA,C;KAFxD,C;4FAIA,yB;MDqHA,6B;MCrHA,wB;QAEuD,OAMD,cA
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ANC,C;KAFvD,C;4FAGA,yB;MCmHA,6B;MDnHA,wB;QAEwD,OAGF,cAAe,YAAV,IAAK,KAAK,EAAY,CCu
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A,6B;MAAA,wB;QAEsD,qBAAe,YAAV,IAAK,KAAK,EAAM,KAAM,KAAZ,CAAf,C;MAAA,C;KAFtD,C;4FA
GA,yB;MA8HA,kBAS6D,sB;MAT7D,+B;MA9HA,wB;QAEwD,O+BAA,eAAW,C/BqI9B,eAAW,oBAAL,SAAK,
CAAL,iBAAN,C+BrI8B,MAAK,U/BAK,K+BAO,KAAZ,CAAhB,C;M/BAA,C;KAFxD,C;wFAIA,yB;MDwGA,6
B;MClGA,4C;MANA,wB;QAEqD,OAMD,WAAW,IAAX,EDyGjB,cC/G2B,KD+GjB,KAAL,GAAiB,GAAtB,CCz
GiB,C;MANC,C;KAFrD,C;wFAGA,yB;MCsGA,6B;MDnGA,4C;MAHA,wB;QAEsD,OAGF,WAAW,IAAX,EC0
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B;QAEoD,kBAAW,IAAX,EAAiB,KAAjB,C;MAAA,C;KAFpD,C;wFAGA,yB;MAiHA,kBAS6D,sB;MAT7D,+B;
M+BjHA,8C;M/BAA,wB;QAEsD,O+BAA,Y/BwHjB,eAAW,oBAAL,SAAK,CAAL,iBAAN,C+BxHiB,E/BAmB,
K+BAnB,C;M/BAA,C;KAFtD,C;wFAIA,yB;MD2FA,6B;MCrFA,kD;MANA,wB;QAEqD,OAMD,cAAc,IAAd,ED
4FjB,cClG2B,KDkGjB,KAAL,GAAiB,GAAtB,CC5FiB,C;MANC,C;KAFrD,C;wFAGA,yB;MCyFA,6B;MDtFA,k
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D;MAHA,wB;QAEsD,OAGF,cAAc,IAAd,EC6FjB,cDhG4B,KCgGlB,KAAL,GAAiB,KAAtB,CD7FiB,C;MAHE,
C;KAFtD,C;wFAGA,yB;MAAA,kD;MAAA,wB;QAEoD,qBAAc,IAAd,EAAoB,KAApB,C;MAAA,C;KAFpD,C;
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AL,SAAK,CAAL,iBAAN,C+B3GiB,E/BAmB,K+BAnB,C;M/BAA,C;KAFtD,C;wEAIA,yB;MAAA,6B;MAAA,m
B;QAEyC,qBAAK,SAAK,QAAV,C;MAAA,C;KAFzC,C;wEAGA,yB;MAAA,6B;MAAA,mB;QAEyC,qBAAK,S
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SA,gD;MATA,mB;QAQqC,OAOE,aAAa,SAAb,C;MAPF,C;KARrC,C;kFASA,yB;MAAA,gD;MAAA,mB;QAMu
C,oBAAa,SAAb,C;MAAA,C;KANvC,C;;MAQyC,OArDD,oBAAL,SAAK,CAAL,iBAqDe,W;IAAT,C;;;;;;MAzP7
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,C;;;MAmDA,uC;MAjCI,IAAI,SAAQ,CAAZ,C;QAAuB,MAAa,gCAAyB,wBAAzB,C;MACpC,IAAI,SAAQ,WA
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```

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jC,EAA+C,IAA/C,C;MAExB,YAGuB,I;IAvB3B,C;;MAyB4C,mCAAwB,UAAxB,EAA+B,SAA/B,EAAqC,SAAr
C,C;IAAA,C;;MAGH,OAAI,YAAO,CAAX,G3Ld6B,Y2Lcf,U3LdgC,KAAjB,E2LcP,S3LdoC,KAA7B,C2Lcf,IAA
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,UAAF,qBAAU,SAAV,cAAqB,SAAnC,GAAgD,UAAF,2BAAgB,SAAhB,eAA4B,CAAC,SAAD,IAA5B,C;IAA9
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C,C;KAFzD,C;8FAGA,yB;M/B8IA,kBAS6D,sB;MAT7D,+B;M+B9IA,wB;QAEuD,OAGC,eAAM,IAAK,KAAK,
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0B;MAT7D,+B;M8B1GA,8C;MANA,wB;QAEuD,OAMD,YAAY,IAAZ,E9BiHjB,eAAW,oB8BvHgB,K9BuHrB,
KAAK,CAAL,YAAN,C8BjHiB,C;MANC,C;KAFvD,C;0FAGA,yB;M/BoHA,kBAS6D,sB;MAT7D,+B;M+BjHA,
```

8C;MAHA,wB;QAEqD,OAGC,YAAY,IAAZ,E/BwHjB,eAAW,oB+B3Hc,K/B2HnB,KAAK,CAAL,iBAAN,C+Bx
HiB,C;MAHD,C;KAFrD,C;0FAGA,yB;MAAA,8C;MAAA,wB;QAEsD,mBAAY,IAAZ,EAAkB,KAAlB,C;MAAA
,C;KAFtD,C;0FAIA,yB;MhCqGA,WAS6D,wB;MAT7D,+B;MgC5FA,oD;MATA,wB;QAEsD,OASA,eAAe,IAAf,
EhCmGjB,eAAW,oBgC5Ge,KhC4GpB,KAAK,CAAL,UAAN,CgCnGiB,C;MATA,C;KAFtD,C;0FAGA,yB;M9B
mGA,aAS6D,0B;MAT7D,+B;M8B7FA,oD;MANA,wB;QAEuD,OAMD,eAAe,IAAf,E9BoGjB,eAAW,oB8B1GgB
,K9B0GrB,KAAK,CAAL,YAAN,C8BpGiB,C;MANC,C;KAFvD,C;0FAGA,yB;M/BuGA,kBAS6D,sB;MAT7D,+B
;M+BpGA,oD;MAHA,wB;QAEqD,OAGC,eAAe,IAAf,E/B2GjB,eAAW,oB+B9Gc,K/B8GnB,KAAK,CAAL,iBAA
N,C+B3GiB,C;MAHD,C;KAFrD,C;0FAGA,yB;MAAA,oD;MAAA,wB;QAEsD,sBAAe,IAAf,EAAqB,KAArB,C;
MAAA,C;KAFtD,C;0EAIA,yB;MAAA,+B;MAAA,mB;QAE0C,sBAAM,SAAK,MAAX,C;MAAA,C;KAF1C,C;0
EAGA,yB;MAAA,+B;MAAA,mB;QAE0C,sBAAM,SAAK,MAAX,C;MAAA,C;KAF1C,C;kGAIA,yB;MAAA,gD;
MAAA,wB;QAE+D,2BAAW,IAAX,EAAiB,KAAjB,C;MAAA,C;KAF/D,C;0FAIA,yB;MAAA,+B;MAAA,2B;QA
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+BrEI,mB;QASmC,O/BuEC,c+BvED,S/BuEW,QAAV,C;M+BvED,C;KATnC,C;;MAYqC,W;IAAA,C;kFAErC,y
B;MASA,kD;MATA,mB;QAQqC,OASE,cAAc,SAAd,C;MATF,C;KARrC,C;oFASA,yB;MAAA,kD;MAAA,mB;
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SP,C;IDhSO,C;;MASzC,aAAQ,KAAR,IAAiB,KC8Kc,K;ID7KnC,C;;MAGsC,OAAA,YAAQ,O;IAAR,C;;MAGm
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D,QAAJ,C;QAAiC,OAAO,K;MAExC,OAAe,WAAR,YAAQ,EAAS,OC0JO,KD1JhB,C;IACnB,C;;MAGY,Q;MA
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iB;IACJ,C;;MAEkC,OAAA,IAAK,QAAQ,OAAb,KAAqB,C;IAArB,C;;;MA7ClC,oD;MACgC,uBAAK,iBAAU,IA
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,C;;MAAA,2IAKqB,0CALrB,G;IAAA,C;gFAuDA,yB;MAAA,yC;;QAWsC,wB;UAAW,OAAA,aAAK,KAAL,CC
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,iB;IAAA,C;;MACO,gB;IAAA,C;;MAEM,W9J+CoB,a8J/CpB,U9J+CsC,KAAlB,E8J/CX,K9J+CyC,KAA9B,C8J/
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M5B,KAAK,CAAL,iBOjMc,CPwSH,QAAV,C;IOxSY,C;;MAEG,OPsSf,SAvGI,oBO/LY,EP+LjB,KAAK,CAAL,i
BO/LiB,QP+LZ,oBO/L0B,EP+L/B,KAAK,CAAL,iBO/LiB,CPsSN,QAAV,C;IOtSe,C;;MAOnD,eAAe,EwByLoB,
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lB,ExB3C/C,EwB2C6E,KAA9B,CxB3CpD,IAAJ,GAAa,aAAb,GAA2B,a;;MAItC,IAAI,uBAAY,CAAhB,C;QACI,
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BhK0EtB,cgK1EsB,ChKmLnB,C;MgKnLU,C;KARpD,C;+EAUA,yB;MAAA,4C;MhKuKA,+B;MgKvKA,sC;QAc
2D,OhKmKjB,egKnK0B,WhK0D7B,cgK1D6B,EAAW,QAAX,ChKmK1B,C;MgKnKiB,C;KAd3D,C;iFAgBA,yB;
MtFoDA,4C;M1EmGA,+B;MgKvJA,sC;QAc4D,OhKmJlB,e0EhGuB,W1ET1B,c0ES0B,EAAW,CsFnDK,QtFmD
L,IAAX,C1EgGvB,C;MgKnJkB,C;KAd5D,C;oFAgBA,yB;MhM8CI,6B;MgM9MJ,gD;MAgKA,4B;QAO8C,OAh
KO,a/LsLhB,CD0BE,cAAU,cAAL,GAAiB,GAAtB,CC1BF,M+LtLgB,C;MAgKP,C;KAP9C,C;oGASA,yB;MtFzH
A,iB;MsFyHA,4B;QAOsD,OtFzHoB,a1G0GnC,cwLde,GAAY,G9E5FQ,C8E4FrB,GAA6C,EAA7C,I;MQ6BC,C;K
APtD,C;sGASA,yB;MR7BA,kE;MQ6BA,4B;QAOuD,OR9BkB,sBxLMlC,cwLNgB,GAAW,GAAO,C;MQ8BlB,C;
KAPvD,C;8FASA,yB;MAAA,0D;MhMkFA,0B;MAAA,+B;MgMlFA,4B;QAQqD,OhMqFZ,eAAW,OgMrFS,kBh
MdnB,cAAL,GAAiB,GgMcO,ChMqFT,CAAX,C;MgMrFY,C;KARrD,C;4FAUA,yB;MAAA,wD;MhMwEA,0B;M
AAA,+B;MgMxEA,4B;QAQoD,OhM2EX,eAAW,OgM3EQ,iBhMxBlB,cAAL,GAAiB,GgMwBM,ChM2ER,CAA
X,C;MgM3EW,C;KARpD,C;gFAWA,yB;MAAA,4C;MhMsCA,+B;MgMtCA,sC;QAc2D,OhMkCjB,egMlC0B,Wh
M7D7B,cgM6D6B,EAAW,QAAX,ChMkC1B,C;MgMlCiB,C;KAd3D,C;kFAgBA,yB;MAAA,8C;MhMsBA,+B;M
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C;oFAgBA,yB;M9LjCI,6B;M8L/MJ,gD;MAgPA,4B;QAO+C,OAhPM,a/LsLhB,CC2BE,cAAU,cAAL,GAAiB,KA
AtB,CD3BF,M+LtLgB,C;MAgPN,C;KAP/C,C;oGASA,yB;MtFzMA,iB;MsFyMA,4B;QAOuD,OtFzMmB,axGqHj
C,csLiDpC,GAAY,K9EtKyD,C8EsKtE,GAA+C,EAA/C,I;MQmCmD,C;KAPvD,C;sGASA,yB;MRnCA,kE;MQm
CA,4B;QAOwD,ORpCoB,sBtLzDnC,csLyDe,GAAW,KAAS,C;MQoCpB,C;KAPxD,C;8FASA,yB;MAAA,0D;M9
LGA,4B;MAAA,iC;M8LHA,4B;QAQuD,O9LMZ,gBAAY,Q8LNQ,kB9L7FrB,cAAL,GAAiB,K8L6FS,C9LMR,C
AAZ,C;M8LNY,C;KARvD,C;4FAUA,yB;MAAA,wD;M9LPA,4B;MAAA,iC;M8LOA,4B;QAQsD,O9LJX,gBAA
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Ad7D,C;kFAgBA,yB;MAAA,8C;M9L7CA,iC;M8L6CA,sC;QAc8D,O9LjDjB,gB8LiD2B,Y9LlJ/B,c8LkJ+B,EAA
Y,QAAZ,C9LjD3B,C;M8LiDiB,C;KAd9D,C;;MC9SI,ShMyHoD,cgMzH3C,ChMyH2C,EgMzHvC,ChMyHuC,C;
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hMgFuD,KAAZ,IAAf,CgMhFtD,GhMmEqD,SAAU,CAaT,SgMhFpB,EhMgF8B,KAAK,GgMhF9B,EhMgF0C,K
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C,EiKtHzC,CjKsHyC,C;MiKrHtD,SjKqHsD,eiKrH7C,CjKqH6C,EiKrHzC,CjKqHyC,C;MiKpHtD,OjKmDmE,aiK

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B,K/BkJgB,K;I+BjJrC,C;;MAGsC,OAAA,YAAQ,O;IAAR,C;;MAGoB,gCAAS,YAAT,C;IAAA,C;;MAEF,yB;MA
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1.719 coreutils 8.22-24.el7_9.2

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@c End:

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel
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<head>
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 <meta name="viewport" content="width=device-width, initial-scale=1">
 <meta name="description" content="Home page of The Apache Software Foundation">

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 <link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
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</head>

<body>
<!-- Navigation -->
<header>
<nav class="navbar navbar-default navbar-fixed-top">

<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
Toggle navigation

</button>

Home &raquo Licenses
<ul class="nav navbar-nav navbar-right">
<li class="dropdown">
About
<ul class="dropdown-menu" role="menu">
Overview
Members
Process
Sponsorship
Glossary
FAQ
Contact

Projects
<li class="dropdown">
People
<ul class="dropdown-menu" role="menu">
Overview
Committers

```
      <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
      <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
      <li><a href="http://planet.apache.org/">Planet Apache</a></li>
        </ul>
       </li>
       <li class="dropdown">
        <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
        <ul class="dropdown-menu" role="menu">
         <li><a href="/foundation/getinvolved.html">Overview</a></li>
       <li><a href="http://community.apache.org/">Community Development</a></li>
            <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
       <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
        </ul>
    </li>
       <li><a href="/dyn/closer.cgi">Download</a></li>
       <li class="dropdown">
        <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
        <ul class="dropdown-menu" role="menu">
       <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
       <li><a href="/foundation/contributing.html">Donations</a></li>
       <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
       <li><a href="/foundation/thanks.html">Thanks</a></li>
        </ul>
       </li>
      </ul>
    </div>
  </div>
 </nav>
</header>
<!-- / Navigation -->
<div class="container">
 <div class="row">
  <div class="col-md-9 col-sm-8 col-xs-12">
   <img src="/img/asf_logo.png" alt="Apache Logo" style="max-width: 100%;">
  </div>
  <div class="col-md-3 col-sm-4 col-xs-12">
   <div class="input-group" style="margin-bottom: 5px;">
   <script>
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  var cx = '005703438322411770421:5mgshgrgx2u';
  var gcse = document.createElement('script');
  gcse.type = 'text/javascript';
  gcse.async = true;
  gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
     '//cse.google.com/cse.js?cx=' + cx;
  var s = document.getElementsByTagName('script')[0];
```

```
  s.parentNode.insertBefore(gcse, s);
 })();
</script>
    <gcse:searchbox-only></gcse:searchbox-only>
  </div>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
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  </div>
 </div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
  It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
 visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
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   </div>
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        <ul class="list-unstyled white" role="menu">
    <li><a href="http://community.apache.org/">Overview</a></li>
    <li><a href="/foundation/conferences.html">Conferences</a></li>
    <li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
    <li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
    <li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
    <li><a href="/travel/">Travel Assistance</a></li>
    <li><a href="/foundation/getinvolved.html">Get Involved</a></li>
    <li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>
        </ul>
   </div>

   <div class="col-sm-2">
    <h5 class="white">Innovation</h5>
        <ul class="list-unstyled white" role="menu">
    <li><a href="http://incubator.apache.org/">Incubator</a></li>
    <li><a href="http://labs.apache.org/">Labs</a></li>
    <li><a href="/licenses/">Licensing</a></li>
    <li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
        </ul>
   </div>

   <div class="col-sm-2">
    <h5 class="white">Tech Operations</h5>
       <ul class="list-unstyled white" role="menu">
```

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      <li><a href="/dev/">Developer Information</a></li>
      <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
      <li><a href="/security/">Security</a></li>
      <li><a href="http://status.apache.org">Status</a></li>
      <li><a href="/foundation/contact.html">Contacts</a></li>
        </ul>
    </div>

    <div class="col-sm-2">
     <h5 class="white">Press</h5>
       <ul class="list-unstyled white" role="menu">
      <li><a href="/press/">Overview</a></li>
      <li><a href="https://blogs.apache.org/">ASF News</a></li>
      <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
      <li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
      <li><a href="/press/#contact">Contacts</a></li>
       </ul>
    </div>

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       <ul class="list-unstyled white" role="menu">
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      <li><a href="/licenses/">Licenses</a></li>
      <li><a href="/foundation/marks/">Trademark Policy</a></li>
      <li><a href="/foundation/records/">Public Records</a></li>
          <li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
      <li><a href="/licenses/exports/">Export Information</a></li>
      <li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
      <li><a href="/foundation/contact.html">Contacts</a></li>
       </ul>
    </div>

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    </div>

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cd <SRC_PATH>
mvn package -DskipTests
mkdir /tmp/jars
mkdir /tmp/overrides
cp package-schema-registry/target/kafka-schema-registry-package-<VERSION>-package/share/java/schema-registry/*.jar /tmp/jars/
cp package-kafka-serde-tools/target/kafka-serde-tools-package-<VERSION>-package/share/java/kafka-serde-tools/*.jar /tmp/jars/
cd <LICENSE_TOOL_PATH>
./bin/run_license_job.bash -i /tmp/jars -l <SRC_PATH>/licenses -n <SRC_PATH>/notices -h <SRC_PATH>/licenses-and-notices.html -o /tmp/overrides

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 <meta http-equiv="content-type" content="text/html; charset=UTF-8">
 <style type="text/css">
  li {display: block;}
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```

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</head>

<body>
<!-- Navigation -->
<header>
<nav class="navbar navbar-default navbar-fixed-top">

<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
Toggle navigation

</button>

Home &raquo Licenses
<ul class="nav navbar-nav navbar-right">
<li class="dropdown">
About
<ul class="dropdown-menu" role="menu">
Overview
Members
Process
Sponsorship
Glossary
FAQ
Contact

Projects
<li class="dropdown">
People
<ul class="dropdown-menu" role="menu">
Overview
Committers
Meritocracy

```
      <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
      <li><a href="http://planet.apache.org/">Planet Apache</a></li>
        </ul>
       </li>
       <li class="dropdown">
        <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
        <ul class="dropdown-menu" role="menu">
         <li><a href="/foundation/getinvolved.html">Overview</a></li>
       <li><a href="http://community.apache.org/">Community Development</a></li>
            <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
       <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
        </ul>
    </li>
       <li><a href="/dyn/closer.cgi">Download</a></li>
       <li class="dropdown">
        <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
        <ul class="dropdown-menu" role="menu">
       <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
       <li><a href="/foundation/contributing.html">Donations</a></li>
       <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
       <li><a href="/foundation/thanks.html">Thanks</a></li>
        </ul>
       </li>
      </ul>
    </div>
  </div>
 </nav>
</header>
<!-- / Navigation -->
<div class="container">
 <div class="row">
  <div class="col-md-9 col-sm-8 col-xs-12">
   <img src="/img/asf_logo.png" alt="Apache Logo" style="max-width: 100%;">
  </div>
  <div class="col-md-3 col-sm-4 col-xs-12">
   <div class="input-group" style="margin-bottom: 5px;">
   <script>
 (function() {
  var cx = '005703438322411770421:5mgshgrgx2u';
  var gcse = document.createElement('script');
  gcse.type = 'text/javascript';
  gcse.async = true;
  gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
     '//cse.google.com/cse.js?cx=' + cx;
  var s = document.getElementsByTagName('script')[0];
  s.parentNode.insertBefore(gcse, s);
```

```
 })();
</script>
    <gcse:searchbox-only></gcse:searchbox-only>
  </div>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
  </div>
 </div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
  It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
 visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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included by reference instead of listed in every file, to clarify the
license on submission of contributions, to require a patent license on
```

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For example if your full name is Andrew Bernard Charles Dickens, but you wish
to be known as Andrew Dickens, please enter the latter as your Public name.
The email address and other contact details are not published.
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Incubator or one of the PMCs, since the ASF
will not accept software unless there is a viable community available to
support a collaborative project.
<h1 id="submitting">Submitting License Agreements and Grants<a class="headerlink" href="#submitting"
title="Permanent link">¶</h1>
Documents may be submitted by fax or email.
If submitting by fax, please print, sign, and fax all pages of the document
to +1-919-573-9199. Please send documents right-side-up, first page first;
and send only one document per fax.
If submitting by email, please fill the form with a pdf viewer,
print, sign, scan all pages into a single pdf file,
and email the pdf file as an attachment to secretary@apache.org. If possible,
send the attachment from the email address in the document.
Please send only one document per email.
If you prefer to sign electronically, please fill the form, save it locally (e.g. icla.pdf), and sign the
file by preparing a detached PGP signature. For example,
<blockquote>
gpg --armor --detach-sign icla.pdf
</blockquote>
The above will create a file icla.pdf.asc. Send both the file and signature
as attachments in the same email to secretary@apache.org. Please send only one
document (file plus signature) per email. Please do not submit your public key to Apache.
Instead, please upload your public key to pgpkeys.mit.edu.
The files typically are named
icla.pdf and icla.pdf.asc for individual agreements;
ccla.pdf and ccla.pdf.asc for corporate agreements;
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Classifications page.
<h1 id="trademarks">Trademark and Logo Usage<a class="headerlink" href="#trademarks" title="Permanent
link">¶</h1>
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<h1 id="questions">Questions?¶</h1>
For answers to frequently asked licensing questions, please consult our
Licensing Frequently Asked Questions page.

```
<!-- Footer -->

<footer class="bg-primary">
 <div class="container">
  <div class="row">
   <br />
   <div class="col-sm-1">

   </div>
   <div class="col-sm-2">
        <h5 class="white">Community</h5>
        <ul class="list-unstyled white" role="menu">
    <li><a href="http://community.apache.org/">Overview</a></li>
    <li><a href="/foundation/conferences.html">Conferences</a></li>
    <li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
    <li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
    <li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
    <li><a href="/travel/">Travel Assistance</a></li>
    <li><a href="/foundation/getinvolved.html">Get Involved</a></li>
    <li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>
        </ul>
   </div>

   <div class="col-sm-2">
    <h5 class="white">Innovation</h5>
        <ul class="list-unstyled white" role="menu">
    <li><a href="http://incubator.apache.org/">Incubator</a></li>
    <li><a href="http://labs.apache.org/">Labs</a></li>
    <li><a href="/licenses/">Licensing</a></li>
    <li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
        </ul>
   </div>

   <div class="col-sm-2">
    <h5 class="white">Tech Operations</h5>
       <ul class="list-unstyled white" role="menu">
     <li><a href="/dev/">Developer Information</a></li>
     <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
     <li><a href="/security/">Security</a></li>
     <li><a href="http://status.apache.org">Status</a></li>
     <li><a href="/foundation/contact.html">Contacts</a></li>
       </ul>
   </div>

   <div class="col-sm-2">
```

```
    <h5 class="white">Press</h5>
      <ul class="list-unstyled white" role="menu">
     <li><a href="/press/">Overview</a></li>
     <li><a href="https://blogs.apache.org/">ASF News</a></li>
     <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
     <li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
     <li><a href="/press/#contact">Contacts</a></li>
      </ul>
    </div>

    <div class="col-sm-2">
     <h5 class="white">Legal</h5>
      <ul class="list-unstyled white" role="menu">
     <li><a href="/legal/">Legal Affairs</a></li>
     <li><a href="/licenses/">Licenses</a></li>
     <li><a href="/foundation/marks/">Trademark Policy</a></li>
     <li><a href="/foundation/records/">Public Records</a></li>
        <li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
     <li><a href="/licenses/exports/">Export Information</a></li>
     <li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
     <li><a href="/foundation/contact.html">Contacts</a></li>
      </ul>
    </div>

    <div class="col-sm-1">
    </div>

   </div>
   <hr class="col-lg-12 hr-white" />
   <div class="row">
    <div class="col-lg-12">
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    </div>
   </div>
  </div>

</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>
```

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: schema-registry
Source: https://github.com/confluentinc/schema-registry

Files: *
Copyright: 2015 Confluent, Inc.
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Files: debian/*
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1.721 aws-java-sdk-mediastoredata 1.12.199

1.721.1 Available under license :

Apache-2.0

1.722 aws-java-sdk-rekognition 1.12.199

1.722.1 Available under license :

Apache-2.0

1.723 dc 1.3

1.723.1 Available under license :

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Found in path(s):
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathItemButton.h
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton/Classes/DCPathItemButton.m
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathItemButton.m
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton/Classes/DCPathItemButton.h
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/AppDelegate.m
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/main.m
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/AppDelegate.h
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathItemButton.h
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathButton.h
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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton/Classes/DCPathButton.m
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathButton.m
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/ExampleTests/ExampleTests.m
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-

DCPathButton-39be410/DCPathButton/Classes/DCPathButton.h
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/ViewController.m
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathButton.h
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/ViewController.h
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathButton.m
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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-Swift-Bridging-Header.h
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-SwiftTests/Example_SwiftTests.swift
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-Swift/AppDelegate.swift
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Pod::Spec.new do |s|

s.name = "DCPathButton"
s.version = "2.1.1"
s.summary = " A beautiful button copy from Path® "

s.description = <<-DESC
DCPathButton is a menu button, design by an famous App Path®.
Since Path® 4.0, it return to use a tab bar instead of a side bar,
and also change the menu button. So I try to implement it and then
the DCPathButton born :)
DESC

s.homepage = "https://github.com/Tangdixi/DCPathButton"

s.license = {
:type => 'MIT',

```
:text => 'The DCPathButton use the MIT license'
}

s.author             = { "Tangdixi" => "Tangdixi@gmail.com" }

s.platform     = :ios, '7.0'

s.source       = {
:git => "https://github.com/Tangdixi/DCPathButton.git",
:tag => "2.1.1"
}

s.source_files  = 'DCPathButton/Classes/*.{h,m}'

s.resources  = ["DCPathButton/Sounds/*"]

s.frameworks = 'QuartzCore','AudioToolbox'

s.requires_arc = true

end
```

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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton.podspec
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<label opaque="NO" clipsSubviews="YES" userInteractionEnabled="NO" contentMode="left" horizontalHuggingPriority="251" verticalHuggingPriority="251" text=" Copyright (c) 2015 DC. All rights reserved." textAlignment="center" lineBreakMode="tailTruncation" baselineAdjustment="alignBaselines" minimumFontSize="9" translatesAutoresizingMaskIntoConstraints="NO" id="8ie-xW-0ye">

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This application makes use of the following third party libraries:

DCPathButton

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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/README.md
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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/BarButtonItemViewController.m

1.724 aws-java-sdk-s3control 1.12.199

1.724.1 Available under license :

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1.726 netty-transport-native-epoll 4.1.68.Final

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*/
/**
   * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
   * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
   * Allowing them being read would mean anyone with access to the channel could get them.
   */
```

Found in path(s):
* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java

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* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/SegmentedDatagramPacket.java
* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/EpollDomainDatagramChannelConfig.java
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* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannel.java
* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java
* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/EpollEventArray.java
* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/EpollMode.java
* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/EpollServerChannelConfig.java
* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
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* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/TcpMd5Util.java
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* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/netty_epoll_linuxsocket.h
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* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannel.java
* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/EpollTcpInfo.java
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* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/Epoll.java
* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
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* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/package-info.java
* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/AbstractEpollChannel.java
* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/EpollEventLoopGroup.java
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*/
/**
   * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.

```
    * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
    * Allowing them being read would mean anyone with access to the channel could get them.
    */
/**
    * Set the {@code TCP_QUICKACK} option on the socket.
    * See <a href="https://linux.die.net//man/7/tcp">TCP_QUICKACK</a>
    * for more details.
    */
```

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1.727 aws-java-sdk-neptune 1.12.199

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* /opt/cola/permits/1463017794_1667606644.2979312/0/aws-crt-0-8-2-sources-1-jar/software/amazon/awssdk/crt/io/TlsContextOptions.java
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* /opt/cola/permits/1463017794_1667606644.2979312/0/aws-crt-0-8-2-sources-1-jar/software/amazon/awssdk/crt/http/HttpHeader.java
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* /opt/cola/permits/1463017794_1667606644.2979312/0/aws-crt-0-8-2-sources-1-jar/software/amazon/awssdk/crt/http/HttpStreamResponseHandler.java
* /opt/cola/permits/1463017794_1667606644.2979312/0/aws-crt-0-8-2-sources-1-jar/software/amazon/awssdk/crt/utils/PemUtils.java
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1.732 libnsl 2.17

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Dynalink v.5

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                  GL/glxext.h           Khronos
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*******************************************************************************

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include/GL/gl.h :
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Mesa 3-D graphics library

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include/GL/glext.h
include/GL/glxext.h
include/GL/wglxext.h :

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The Unicode Standard, Unicode Character Database, Version 10.0.0

Unicode Character Database

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### xwd utility
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1.761 aws-java-sdk-augmentedairuntime 1.12.199

1.761.1 Available under license :

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1.762 netty-transport-native-unix-common 4.1.69.Final

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1.763 dropwizard-core 2.0.25

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1.764 aws-java-sdk-personalize 1.12.199

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* /opt/cola/permits/1463015426_1667607034.0312014/0/aws-java-sdk-personalize-1-12-199-sources-jar/com/amazonaws/services/personalize/model/CategoricalHyperParameterRange.java
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* /opt/cola/permits/1463015426_1667607034.0312014/0/aws-java-sdk-personalize-1-12-199-sources-jar/com/amazonaws/services/personalize/model/transform/TooManyTagsExceptionUnmarshaller.java
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* /opt/cola/permits/1463015426_1667607034.0312014/0/aws-java-sdk-personalize-1-12-199-sources-jar/com/amazonaws/services/personalize/model/transform/ListRecommendersRequestMarshaller.java
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* /opt/cola/permits/1463015426_1667607034.0312014/0/aws-java-sdk-personalize-1-12-199-sources-jar/com/amazonaws/services/personalize/model/CreateSchemaRequest.java
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1.765 event-stream 1.0.1

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1.766 guice-persist 4.2.2

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1.767 netty-codec-dns 4.1.69.Final

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* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/TcpDnsResponseEncoder.java
* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/TcpDnsQueryDecoder.java

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* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DnsMessageUtil.java
* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-

jar/io/netty/handler/codec/dns/DnsRecordType.java
* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DnsQuery.java
* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsRawRecord.java
* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsResponse.java
* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQuery.java
* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DnsRawRecord.java
* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsResponseEncoder.java
* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsResponseDecoder.java
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* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DnsMessage.java
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* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DnsResponse.java
* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DnsQuestion.java
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* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/package-info.java
* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DnsRecordDecoder.java
* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DnsSection.java
* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsRecordDecoder.java
* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsQuery.java
* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DnsOpCode.java
* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DnsResponseCode.java
* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-

jar/io/netty/handler/codec/dns/DnsRecord.java
* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsResponse.java
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* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/AbstractDnsOptPseudoRrRecord.java
* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsOptEcsRecord.java
* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DnsPtrRecord.java
* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DnsOptEcsRecord.java
* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DnsOptPseudoRecord.java
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* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/TcpDnsQueryEncoder.java
* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/TcpDnsResponseDecoder.java
* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DnsResponseDecoder.java
* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DnsQueryEncoder.java

1.768 libffi 3.0.13 19.el7

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